"控制理论的全驱系统方法体系"项目鉴定材料

相关论文清单

目 录

第一部分:	全驱系统方法全部论文(502 篇)	1
第二部分:	全驱系统方法应用性期刊论文(135 篇)	40
第三部分:	FASTA 2025 部分论文清单(148 篇)	51
第四部分:	带有基金委基础科学中心项目项目号"62188101"的 SCI 论文清单(389	篇)
		65

第一部分:全驱系统方法全部论文(502篇)

论文清单: 总数 502

一、英文刊物论文

2021

- [1] Guangren Duan, "High-order fully actuated system approaches: Part I. Models and basic procedure," *International Journal of Systems Science*, vol. 52, no. 2, pp. 422–435, Oct. 2021.
- [2] Guangren Duan, "High-order fully actuated system approaches: Part II. Generalized strict-feedback systems," *International Journal of Systems Science*, vol. 52, no. 3, pp. 437–454, Oct. 2021.
- [3] Guangren Duan, "High-order fully actuated system approaches: Part III. Robust control and high-order backstepping," *International Journal of Systems Science*, vol. 52, no. 5, pp. 952–971, Dec. 2021.
- [4] Guangren Duan, "High-order fully actuated system approaches: Part IV. Adaptive control and high-order backstepping," *International Journal of Systems Science*, vol. 52, no. 5, pp. 972–989, Dec. 2021.
- [5] Guangren Duan, "High-order fully actuated system approaches: Part V. Robust adaptive control," *International Journal of Systems Science*, vol. 52, no. 10, pp. 2129–2143, Feb. 2021.
- [6] Guangren Duan, "High-order fully-actuated system approaches: Part VI. Disturbance attenuation and decoupling," *International Journal of Systems Science*, vol. 52, no. 10, pp. 2161–2181, Feb. 2021.
- [7] Guangren Duan, "High-order fully actuated system approaches: Part VII. Controllability, stabilisability and parametric designs," *International Journal of Systems Science*, vol. 52, no. 14, pp. 3091–3114, May 2021.

- [8] Guangquan Duan and Guoping Liu, "Attitude and orbit optimal control of combined spacecraft via a fully-actuated system approach," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 623–640, Apr. 2022.
- [9] Guangren Duan and Bin Zhou, "A frequency-domain approach for converting state-space models into high-order fully actuated models," *Journal of Systems Science and Complexity*, Apr. 2022.
- [10] Dake Gu and Shuo Wang, "A high-order fully actuated system approach for a class of nonlinear systems," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 714–730, Apr. 2022.

- [11] Xueqing Liu, Maoyin Chen, Li Sheng, and Donghua Zhou, "Adaptive fault-tolerant control for nonlinear high-order fully-actuated systems," *Neurocomputing*, vol. 495, pp. 75–85, Jul. 2022.
- [12] Rui Meng, Changchun Hua, Kuo Li, and Pengju Ning, "Adaptive event-triggered control for uncertain high-order fully actuated system," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 69, no. 11, pp. 4438–4442, Nov. 2022.
- [13] Pengju Ning, Changchun Hua, and Meng Rui, "Adaptive control for a class of nonlinear time-delay system based on the fully actuated system approaches," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 522–534, Apr. 2022.
- [14] Wenrui Shi, Mingzhe Hou, and Guang-Ren Duan, "Adaptive preassigned time stabilisation of uncertain second-order sub-fully actuated systems," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 703–713, Apr. 2022.
- [15] Na Wang, Xiaoping Liu, Cungen Liu, Huanqing Wang, and Yucheng Zhou, "Almost disturbance decoupling for HOFA nonlinear systems with strict-feedback form," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 481–501, Apr. 2022.
- [16] Aiguo Wu, Jie Zhang, and Youzhou Ji, "A fully actuated system approach for stabilization of discrete-time multiple-input nonlinear systems with distinct input delays," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 670–687, Apr. 2022.
- [17] Yuzhuo Zhao, Dan Ma, and Hongwei Ma, "Adaptive neural network control of thermoacoustic instability in Rijke tube: A fully actuated system approach," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 586–603, Apr. 2022.
- [18] Guangren Duan, "Brockett's first example: An FAS approach treatment," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 441–456, Apr. 2022.
- [19] Guangren Duan, "Discrete-time delay systems: part 1. Global fully actuated case," *Science China-Information Sciences*, vol. 65, no. 8, pp. 182201:1–182201:18, Jul. 2022.
- [20] Guangren Duan, "Discrete-time delay systems: Part 2. Sub-fully actuated case," *Science China-Information Sciences*, vol. 65, pp. 192201:1–192201:15, 2022.
- [21] Guangren Duan and Bin Zhou, "Fully actuated system approach for linear systems control: A frequency-domain solutions," *Journal of Systems Science and Complexity*, vol. 35, no. 6, pp. 2046–2061, Dec. 2022.
- [22] Guo-Ping Liu, "Coordination of networked nonlinear multi-agents using a high-order fully actuated predictive control strategy," *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 4, pp. 615–623, Apr. 2022.
- [23] Aiguo Wu, Bin Zhou, Mingzhe Hou, and Ying Zhang, "Fully actuated system approaches: Theory and applications," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 437–440, Apr. 2022.
- [24] Fuzheng Xiao and Liqun Chen, "Attitude control of spherical liquid-filled spacecraft based on high-order fully actuated system approaches," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 471–480, Apr. 2022.
- [25] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Coordinated control of high-order fully actuated multiagent systems and its application: A predictive control strategy," *IEEE/ASME Transactions on Mechatronics*, vol. 27, no. 6, pp. 4362–4372, Jul. 2022.
- [26] Qin Zhao and Guangren Duan, "Fully actuated system approach for 6DOF spacecraft

- control based on extended state observer," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 604–622, Apr. 2022.
- [27] Tianyi Zhao and Guangren Duan, "Fully actuated system approach to attitude control of flexible spacecraft with nonlinear time-varying inertia," *Science China-Information Sciences*, vol. 65, no. 11, Nov. 2022.
- [28] Fatih Adgüzel and Yaprak Yalçn, "Immersion and invariance disturbance observer-based nonlinear discrete-time control for fully actuated mechanical systems," *International Journal of Systems Science*, vol. 53, no. 2, pp. 388–401, Jul. 2022.
- [29] Liangming Chen, Zhiyun Lin, Hector Garcia de Marina, Zhiyong Sun, and Mir Feroskhan, "Maneuvering angle rigid formations with global convergence guarantees," *IEEE/CAA J. Autom. Sin.*, vol. 9, no. 8, pp. 1464–1475, Aug. 2022.
- [30] Guangren Duan, "High-order fully-actuated system approaches: Part IX. Generalised PID control and model reference tracking," *International Journal of Systems Science*, vol. 53, no. 3, pp. 652–674, Sep. 2022.
- [31] Guangren Duan, "High-order fully actuated system approaches: Part VIII. Optimal control with application in spacecraft attitude stabilisation," *International Journal of Systems Science*, vol. 53, no. 1, pp. 54–73, Jun. 2022.
- [32] Guangren Duan, "High-order fully actuated system approaches: Part X. Basics of discrete-time systems," *International Journal of Systems Science*, vol. 53, no. 4, pp. 810–832, Sep. 2022.
- [33] Gaoqi Liu, Kai Zhang, and Bin Li, "Fully-actuated system approach based optimal attitude tracking control of rigid spacecraft with actuator saturation," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 688–702, Apr. 2022.
- [34] Guo-Ping Liu, "Predictive control of high-order fully actuated nonlinear systems with time-varying delays," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 457–470, Apr. 2022.
- [35] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "High-order robust command filtered backstepping design for strict-feedback systems: A high-order fully actuated system approach," *International Journal of Robust and Nonlinear Control*, vol. 32, no. 18, pp. 10251–10270, Oct. 2022.
- [36] Liuliu Zhang, Lingchen Zhu, and Changchun Hua, "Practical prescribed time control based on high-order fully actuated system approach for strong interconnected nonlinear systems," *Nonlinear Dynamics*, vol. 110, no. 4, pp. 3535–3545, Apr. 2022.
- [37] Bin Zhou and Guangren Duan, "On the role of zeros in the pole assignment of scalar high-order fully actuated linear systems," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 535–542, Apr. 2022.
- [38] Guangren Duan, "Stabilization via fully actuated system approach: A case study," *Journal of Systems Science and Complexity*, vol. 35, no. 3, pp. 731–747, Jun. 2022.
- [39] Zhi Li, Ying Zhang, and Rui Zhang, "Prescribed error performance control for second-order fully actuated systems," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 660–669, Apr. 2022.
- [40] Longwen Liu, Wei Xie, Langwen Zhang, and Dake Gu, "Time-dependent Luenberger-type interval observer design for uncertain time-varying systems," *International Journal of Robust and Nonlinear Control*, vol. 32, no. 7, pp. 4195–4213,

2022.

- [41] Hao Sun, Ling Huang, and Liang He, "Research on the trajectory tracking control of a 6-DOF manipulator based on fully-actuated system models," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 641–659, Apr. 2022.
- [42] Si Wu and Tengfei Liu, "Safety control of a class of fully actuated systems subject to uncertain actuation dynamics," *Journal of Systems Science and Complexity*, vol. 35, no. 2, pp. 543–558, Apr. 2022.

- [43] Yang Cui, Guangren Duan, Xiaoping Liu, and Hongyu Zheng, "Adaptive fuzzy fault-tolerant control of high-order nonlinear systems: A fully actuated system approach," *International Journal of Fuzzy Systems*, vol. 25, no. 5, pp. 1895–1906, May 2023.
- [44] Ranxin Dong, Changchun Hua, Kuo Li, and Rui Meng, "Adaptive fault-tolerant control for high-order fully actuated system with full-state constraints," *Journal of the Franklin Institute*, vol. 360, no. 12, pp. 8062–8074, Aug. 2023.
- [45] Mingzhe Hou, Wenrui Shi, Leyan Fang, and Guangren Duan, "Adaptive dynamic surface control of high-order strict feedback nonlinear systems with parameter estimations," *Science China-Information Sciences*, vol. 66, pp. 159203:1–159203:2, May 2023.
- [46] Cungen Liu, Xiaoping Liu, Huanqing Wang, Yucheng Zhou, and Chuang Gao, "Adaptive control for unknown HOFA nonlinear systems without overparametrization," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 6, pp. 3640–3660, Jan. 2023.
- [47] Huaitao Shi, Ranran Li, Xiaotian Bai, Yixing Zhang, Linggang Min, Dong Wang, Xinyu Lu, Yang Yan, and Yaguo Lei, "A review for control theory and condition monitoring on construction robots," *Journal of Field Robotics*, vol. 40, no. 4, pp. 934–954, 2023.
- [48] Na Wang, Xiaoping Liu, Cungen Liu, Huanqing Wang, and Yucheng Zhou, "Adaptive control and almost disturbance decoupling for uncertain HOFA nonlinear systems," *International Journal of Adaptive Control and Signal Processing*, vol. 37, no. 8, pp. 2133–2161, May 2023.
- [49] Chengyuan Yan, Jianwei Xia, Xinru Liu, Huarong Yue, and Chong Li, "Adaptive backstepping control of high-order fully actuated nonlinear systems with event-triggered strategy," *Intelligence & Robotics*, vol. 3, no. 2, pp. 176–189, 2023.
- [50] Fei Yan, Mingyuan Zhang, and Guoxiang Gu, "Adaptive estimation and control for uncertain nonlinear systems and full actuation control," *Science China-Information Sciences*, vol. 66, 2023, art. no. 212204.
- [51] Liuliu Zhang, Peng Wang, and Changchun Hua, "Adaptive control of time-delay nonlinear HOFA systems with unmodeled dynamics and unknown dead-zone input," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 4, pp. 2615–2628, Mar. 2023.
- [52] Yu-Zhuo Zhao, Dan Ma, and Ying-Wei Zhang, "Adaptive asymptotic stabilization of uncertain nonstrict feedback nonlinear HOFA systems with time delays," *Nonlinear Dynamics*, vol. 111, p. 14139-14153, 2023.

- [53] Miao Cai, Xiao He, and Donghua Zhou, "An active fault tolerance framework for uncertain nonlinear high-order fully-actuated systems," *Automatica*, vol. 152, p. 110969, Jun. 2023.
- [54] Miao Cai, Xiao He, and Donghua Zhou, "Fault-tolerant tracking control for nonlinear observer-extended high-order fully-actuated systems," *Journal of the Franklin Institute*, vol. 360, no. 1, pp. 136–153, Jan. 2023.
- [55] Juan Carlos Coronado-Salazar, César Fernando F Francisco Méndez-Barrios, and Emilio Jorge González-Galván, "Delayed-based controller for fully actuated systems," *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering*, vol. 237, no. 6, pp. 1066–1077, 2023.
- [56] Guangren Duan, "Brockett's second example: A FAS approach treatment," *Journal of Systems Science and Complexity*, vol. 36, no. 5, pp. 1789–1808, 2023.
- [57] Qinbo Huang and Jitao Sun, "Control of impulsive systems via high-order fully actuated system approach," *Nonlinear Dynamics*, vol. 111, pp. 17961–17971, Jul. 2023.
- [58] Gaoqi Liu, Bin Li, and Guangren Duan, "An optimal FASA approach for UAV trajectory tracking control," *Guidance, Navigation and Control*, vol. 3, no. 03, p. 2350015, 2023, early access, doi:10.1142/S2737480723500152.
- [59] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "Concurrent learning adaptive command filtered backstepping control for high-order strict-feedback systems," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 70, no. 4, pp. 1696–1709, Apr. 2023.
- [60] Shi Lu, Konstantinos Tsakalis, and Yan Chen, "Development and application of a novel high-order fully actuated system approach-Part I: 3-DOF quadrotor control," *IEEE Control Syst. Lett.*, vol. 7, pp. 1177–1182, Dec. 2023.
- [61] Dawei Zhang, Guoping Liu, and Lei Cao, "Constrained cooperative control for high-order fully actuated multiagent systems with application to air-bearing spacecraft simulators," *IEEE/ASME Trans. Mechatron.*, vol. 28, no. 3, pp. 1570–1581, Nov. 2023.
- [62] Feng Zhang and Guangren Duan, "Coupled dynamics and integrated control for position and attitude motions of spacecraft: A survey," *IEEE/CAA Journal of Automatica sinica*, vol. 10, no. 12, pp. 1–22, 2023.
- [63] Miao Cai, Xiao He, and Donghua Zhou, "Low-power fault-tolerant control for nonideal high-order fully actuated systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 8, pp. 4875 4887, Aug. 2023.
- [64] Shiwei Chen, Wei Wang, Junfang Fan, and Yi Ji, "Impact angle constraint guidance law using fully-actuated system approach," *Aerosp. Sci. Technol.*, vol. 136, p. 108220, May 2023.
- [65] Guangren Duan, "Fully actuated system approaches for continuous-time delay systems: Part 1. Systems with state delays only," *Science China-Information Sciences*, vol. 66, no. 1, pp. 112201:1–112201:30, Dec. 2023.
- [66] Guangren Duan, "Fully actuated system approaches for continuous-time delay systems: Part 2. Systems with input delays," *Science China-Information Sciences*, vol. 66, no. 2, pp. 122201:1–122201:18, Jan. 2023.
- [67] Ping Li and Guangren Duan, "High-order fully actuated control approaches of flexible servo systems based on singular perturbation theory," *IEEE/ASME Trans. Mechatron.*,

- May 2023.
- [68] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "High-order command filtered adaptive backstepping control for second-and high-order fully actuated strict-feedback systems," *Journal of the Franklin Institute*, vol. 360, no. 6, pp. 3989–4015, Apr. 2023.
- [69] Xiubo Wang and Guangren Duan, "High-order fully actuated system approaches mboxModel predictive control with applications to under-actuated systems," *Journal of the Franklin Institute*, vol. 360, no. 10, pp. 6953–6975, 2023.
- [70] Xiubo Wang and Guangren Duan, "Fully actuated system approaches: Predictive elimination control for discrete-time nonlinear time-varying systems with full state constraints and time-varying delays," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 1, pp. 383–396, 2024.
- [71] Fuzheng Xiao and Liqun Chen, "Fully actuated systems in terms of quaternions for spacecraft attitude control," *Acta Astronaut.*, vol. 209, pp. 1–5, Aug. 2023.
- [72] Quanmin Zhu, Ruobing Li, and Jianhua Zhang, "Model-free robust decoupling control of nonlinear nonaffine dynamic systems," *International Journal of Systems Science*, vol. 54, no. 13, pp. 2590–2607, 2023.
- [73] Zifan Gao, Dawei Zhang, and Shuqian Zhu, "Network-induced asynchronous fuzzy control for vehicle steering using switching event-triggered communication mechanism," *IEEE Transactions on Intelligent Vehicles*, vol. 8, no. 11, pp. 4559–4571, 2023.
- [74] Liyao Hu, Guangren Duan, and Mingzhe Hou, "Robust adaptive guaranteed cost tracking control for high-order nonlinear systems with uncertainties based on high-order fully actuated system approaches," vol. 33, no. 13, pp. 7583–7605, Sep 2023.
- [75] Yonghao Ma, Ke Zhang, and Bin Jiang, "Prescribed-time fault-tolerant control for fully actuated heterogeneous multiagent systems: A hierarchical design approach," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 59, no. 5, pp. 6624 6636, Oct. 2023.
- [76] Kai Peng, Hongxia Wang, Huanshui Zhang, Zhaorong Zhang, and Fan Yang, "Multivariable decoupling control of civil turbofan engines based on fully actuated system approach," *Journal of Systems Science and Complexity*, vol. 36, pp. 947–959, Mar. 2023.
- [77] Guangtai Tian and Guangren Duan, "Robust model reference tracking for uncertain second-order nonlinear systems with application to robot manipulator," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 3, pp. 1750–1771, Nov. 2023.
- [78] Da-Wei Zhang and Guo-ping Liu, "Predictive control for networked high-order fully actuated systems subject to communication delays and external disturbances," *ISA Transactions*, vol. 139, pp. 425–435, Aug. 2023.
- [79] Da-Wei Zhang and Guo-Ping Liu, "Predictive sliding-mode control of networked high-order fully actuated systems under random deception attacks," *Science China Information Sciences*, vol. 66, no. 9, pp. 1–14, 2023.
- [80] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Predictive control of discrete-time high-order fully actuated systems with application to air-bearing spacecraft simulator," *Journal of the Franklin Institute*, vol. 360, pp. 5910–5927, May 2023.
- [81] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Proportional integral predictive control of networked high-order fully actuated networked multiagent systems with communication delays," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 2,

- pp. 801-812, Jul. 2023.
- [82] Tianyi Zhao, Guangren Duan, and Wanqing Xin, "Observer-based control for high-order fully actuated systems," *IEEE Access*, vol. 11, pp. 132239–132253, 2023.
- [83] Miao Cai, Xiao He, and Donghua Zhou, "Self-healing fault tolerant control for high-order fully-actuated systems against sensor faults: A redundancy framework," *IEEE Transactions on Cybernetics*, Jan. 2023.
- [84] Guangren Duan, "Robust stabilization of time-varying nonlinear systems with time-varying delays: A fully actuated system approach," *IEEE Transactions on Cybernetics*, vol. 53, no. 12, pp. 7455–7468, 2023.
- [85] Guangren Duan, "Substability and substabilization: Control of subfully actuated systems," *IEEE Transactions on Cybernetics*, vol. 53, no. 11, pp. 7309–7322, 2023.
- [86] Erlong Kang, Yang Liu, and Hong Qiao, "Sliding mode-based adaptive tube model predictive control for robotic manipulators with model uncertainty and state constraints," *Control Theory and Technology*, vol. 21, p. 334-351, Oct. 2023.

- [87] Zhijun Chen and Guangren Duan, "A fully actuated system approach: Desired compensation adaptive robust control for uncertain nonlinear systems," *Journal of the Franklin Institute*, vol. 361, no. 9, p. 106855, 2024.
- [88] Guang-Ren Duan, "A FAS approach for stabilization of generalized chained forms: part 1. Discontinuous control laws," *Science China Information Sciences*, vol. 67, no. 2, p. 122201, 2024.
- [89] Guang-Ren Duan, "A FAS approach for stabilization of generalized chained forms: part 2. Continuous control laws," *Science China Information Sciences*, vol. 67, no. 3, pp. 114–135, 2024.
- [90] Liyao Hu and Guangren Duan, "Adaptive guaranteed cost tracking control for high-order nonlinear systems," *Transactions of the Institute of Measurement and Control*, vol. 46, no. 7, pp. 1283–1295, 2024.
- [91] Liyao Hu, Guangren Duan, and Mingzhe Hou, "Adaptive guaranteed cost control for nonlinear systems with unknown parameters and time delays based on fully actuated system approaches," *ISA transactions*, vol. 145, pp. 112–123, 2024.
- [92] Xuefang Li, Yanfang Chen, Hui-Jie Sun, and Wanquan Liu, "Adaptive iterative learning control for high-order nonlinear systems with different types of uncertainties," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 8, pp. 5399–5418, 2024.
- [93] Yang Liu, Jiaming Zhang, and Yingmin Jia, "Adaptive containment control of heterogeneous high-order fully actuated multi-agent systems," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 7, pp. 4802–4819, 2024.
- [94] Wenrui Shi, Mingzhe Hou, and Guangren Duan, "A preset-trajectory-based singularity-free preassigned performance control approach," *IEEE Transactions on Automatic Control*, vol. 69, no. 9, pp. 6183–6190, 2024.
- [95] Fuxing Yao, Guangtai Tian, Aiguo Wu, Guang-Ren Duan, and He Kong, "A high-order fully actuated system approach to control of overhead cranes," *IEEE/ASME Transactions on Mechatronics*, 2024, early access, doi: 10.1109/TMECH.2024.3446670.

- [96] Da-Wei Zhang and Guo-Ping Liu, "A high-order fully actuated predictive control approach for spacecraft flying-around," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2556–2569, 2024.
- [97] Guang-Ren Duan, Qin Zhao, and Tianyi Zhao, "Complete parametric solutions to the fundamental problem in high-order fully actuated system approach," *International Journal of Control, Automation and Systems*, vol. 22, no. 1, pp. 228–240, 2024.
- [98] Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "Adaptive tracking controller for fas with state constraints and its application to underactuated overhead cranes: Design and experiment," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 6, pp. 6329–6339, 2025.
- [99] Lin Liu and Guangren Duan, "Adaptive tracking control for nonlinear fully actuated systems with input quantization," *IEEE Transactions on Circuits and Systems I: Regular Papers*, 2024, early access, doi: 10.1109/TCSI.2024.3519439.
- [100] Xiubo Wang and Guangren Duan, "Comprehensive reconstructions and predictive control for quadrotor uav information gathering tracking missions based on fully actuated system approaches," *ISA transactions*, vol. 147, pp. 540–553, 2024.
- [101] Xueqi Wu, Wei Sun, Shun-Feng Su, and Xiangpeng Xie, "Adaptive stabilization for high-order fully actuated systems with unknown control directions," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 54, no. 8, pp. 5150–5159, 2024.
- [102] Xueqi Wu, Wei Sun, and Xudong Zhao, "Adaptive stabilisation of second-order strict-feedback systems based on FAS with tuning functions," *Journal of Control and Decision*, 2024, early access, doi:10.1080/23307706.2024.2315440.
- [103] Youpeng Xing, Zeyang Yin, and Caisheng Wei, "Appointed-time safety-guaranteed control for spacecraft flying around non-cooperative target based on fully actuated system theory," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2570–2588, 2024.
- [104] Fuxing Yao, Ai-Guo Wu, Mehdi Golestani, Derong Liu, Guang-Ren Duan, and He Kong, "Adaptive tracking control for underactuated double pendulum overhead cranes with variable cable length," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7728–7741, 2024.
- [105] Liuliu Zhang, Peng Wang, Cheng Qian, and Changchun Hua, "Adaptive trajectory tracking error constraint control of unmanned underwater vehicle based on a fully actuated system approach," *Journal of Systems Science and Complexity*, vol. 37, no. 6, pp. 2633–2653, 2024.
- [106] Yuzhuo Zhao and Dan Ma, "Adaptive prescribed performance control for uncertain nonlinear HOFA systems with time delay," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2442–2453, 2024.
- [107] Liangming Chen, Jiaping Xiao, Yumin Zheng, N Arun Alagappan, and Mir Feroskhan, "Design, modeling, and control of a coaxial drone," *IEEE Transactions on Robotics*, vol. 40, pp. 1650–1663, 2024.
- [108] Kai-Xin Cui, Guang-Ren Duan, and Ming-Zhe Hou, "Discrete-time model reference tracking control for a class of combined spacecraft: A high-order fully actuated system approach," *IEEE Transactions on Automation Science and Engineering*, vol. 21, no. 4, pp. 6966–6977, 2024.

- [109] Kai-Xin Cui, Guang-Ren Duan, Da-Wei Zhang, and Da-Ke Gu, "Discrete-time high-order fully actuated adaptive stabilization control for a type of combined spacecraft with unknown parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 3, pp. 3379–3389, 2024.
- [110] Zhao-Yan Li, Yu Liu, and Bin Zhou, "Differential flatness of single-input commensurate delay systems with applications to trajectory planning, tracking, and transformation to fully actuated systems," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 8, pp. 3799–3809, 2024.
- [111] Guo-Ping Liu, "Digital-twin predictive control of nonlinear systems with time delays, unknown dynamics, and communication delays," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7198–7210, 2024.
- [112] Weizhen Liu, Guangren Duan, Mingzhe Hou, Mehdi Golestani, and He Kong, "Control of uncertain high-order fully actuated strict-feedback systems: A backstepping approach with high-gain observer-based derivative approximation," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7456–7468, 2024.
- [113] Lingling Lv, Zikai Li, Rui Chang, and Xinyang Liu, "Controllability and control for discrete periodic systems based on fully-actuated system approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2494–2505, 2024.
- [114] Ao Qin, Yongyuan Yu, Zhe Gao, and Jun-e Feng, "Controller design of coordinated control problems over finite fields via fully actuated approach," *Franklin Open*, vol. 7, p. 100091, 2024.
- [115] Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M Guerrero, "Coordinated predictive secondary control for dc microgrids based on high-order fully actuated system approaches," *IEEE Transactions on Smart Grid*, vol. 15, no. 1, pp. 19–33, 2024.
- [116] Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M. Guerrero, "Distributed learning-based secondary control for islanded DC microgrids: A high-order fully actuated system approach," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 3, pp. 2990 3000, Mar. 2024.
- [117] Miao Cai, Xiao He, and Donghua Zhou, "Finite-time fault-tolerant control via fully actuated system approaches," *IEEE Transactions on Cybernetics*, vol. 54, no. 9, pp. 5506–5517, 2024.
- [118] Zhaoyang Han, Jiao-Jiao Li, Xian-Long Yin, Yongpeng Ma, and Shiji Ren, "Fixed-time event-triggered stabilization of high-order nonlinear systems with asymmetric output constraints," *IEEE Access*, vol. 12, pp. 191252–191263, 2024.
- [119] Ping Li, Guangren Duan, Bi Zhang, and Yuzhong Wang, "Event-triggered control for servo motor systems based on fully actuated system approach and dynamical compensator," *IEEE Transactions on Industrial Electronics*, 2024, early access, doi:10.1109/TIE.2024.3515273.
- [120] Quanzhi Liu, Liu Zhang, Bo Sun, Yang Xiao, and Guowei Fan, "Fixed-time disturbance observer-based attitude prescribed performance predictive control for flexible spacecraft," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 3, pp. 3209–3220, 2024.
- [121] Xueqing Liu, Maoyin Chen, Donghua Zhou, and Li Sheng, "Fault-tolerant control of stochastic high-order fully actuated systems," *IEEE Transactions on Cybernetics*, vol. 54,

- no. 5, pp. 3225-3238, 2024.
- [122] Yuan Lu, Ke Zhang, and Bin Jiang, "Fully actuated system approach based prescribed-time fault-tolerant formation control for unmanned helicopters under fixed and switching topologies," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 11, pp. 5249–5260, 2024.
- [123] Yuzhong Wang, Guangren Duan, and Ping Li, "Event-based neural networks adaptive control of nonlinear systems: A fully actuated system approach," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 9, pp. 4211–4221, 2024.
- [124] Yuzhong Wang, Guangren Duan, and Ping Li, "Event-triggered adaptive control of uncertain strict-feedback nonlinear systems using fully actuated system approach," *IEEE Transactions on Cybernetics*, vol. 54, no. 11, pp. 6371–6383, 2024.
- [125] Yuzhong Wang, Guangren Duan, and Ping Li, "Event-triggered adaptive sliding mode control of uncertain nonlinear systems based on fully actuated system approach," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 71, no. 5, pp. 2749–2753, 2024.
- [126] Dawei Zhang and Guoping Liu, "Disturbance observer-based predictive tracking control of uncertain HOFA cyber-physical systems," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 7, pp. 1711–1713, 2024.
- [127] Guang-Ren Duan, "Fully actuated system approach for control: An overview," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7285–7306, 2024.
- [128] Guangren Duan, Bin Zhou, and Xuefei Yang, "Fully actuated system theory and applications: New developments in 2023," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2419–2420, 2024.
- [129] Da-Ke Gu, Xiao-Meng Guo, and Yin-Dong Liu, "Fully actuated system approaches for feedback linearizable nonlinear systems," *Journal of Systems Science and Complexity*, p. 0, 2024.
- [130] Hong Jiang, Guangren Duan, and Mingzhe Hou, "Generalized proportional–integral extended state observer-based controller design for fully actuated systems," *ISA Transactions*, vol. 155, pp. 137–147, 2024.
- [131] Qian Wang and Yuqi Jiang, "Fully actuated system approach for input-saturated nonlinear system based on anti-windup control," *Circuits, Systems, and Signal Processing*, vol. 43, p. 3461-3476, 2024.
- [132] Qian Wang and Yan Jin, "Fully actuated system approach for spacecraft rendezvous system with actuator saturation," *International Journal of Systems Science*, vol. 55, no. 8, pp. 1709–1718, 2024.
- [133] Chengyuan Yan, Jianwei Xia, Ju H. Park, Jun-e Feng, and Xiangpeng Xie, "Fully actuated system approach-based dynamic event-triggered control with guaranteed transient performance of flexible-joint robot: Experiment," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 71, no. 8, pp. 3775–3779, 2024.
- [134] Yi Yu, Guo-Ping Liu, Yi Huang, and Peng Shi, "Fully actuated system-based modeling and control of DC microgrids with inductive tie lines: A predictive strategy," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 2, pp. 1990–2000, 2025.
- [135] Lixuan Zhang, Zhe Zhang, and Huaiyuan Jiang, "Fully actuated system approach for high-order linear systems with high-order input derivatives," *International Journal of*

- Systems Science, vol. 55, no. 12, pp. 2506-2517, 2024.
- [136] Shiyu Zhang and Guangren Duan, "Fully actuated system approach to robust control of uncertain multi-order sub-fully actuated systems," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 14, pp. 9697–9715, 2024.
- [137] Qinbo Huang, Jitao Sun, and Chengcui Zhang, "High-order fully actuated system approach to robust control of impulsive systems," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 71, no. 3, pp. 1321–1325, 2024.
- [138] Qinbo Huang, Yue Yu, Chengcui Zhang, and Jitao Sun, "Hybrid stabilization of nonlinear systems based on a fully actuated system approach," *Journal of the Franklin Institute*, vol. 361, no. 11, p. 106958, 2024.
- [139] Ping Li and Guang-Ren Duan, "High-order fully actuated control approach for servo systems based on dynamical compensator and extended state observer," *IEEE/ASME Transactions on Mechatronics*, vol. 29, no. 5, pp. 3717–3726, 2024.
- [140] Qiyang Miao, Ke Zhang, and Bin Jiang, "Incremental fully actuated system approach-based prescribed-time fault-tolerant formation control of helicopters under multiple faults," *Aerospace Science and Technology*, vol. 151, p. 109334, 2024.
- [141] Guangtai Tian, Bin Li, Qin Zhao, and Guan-Ren Duan, "High-precision trajectory tracking control for free-flying space manipulators with multiple constraints and system uncertainties," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 1, pp. 789–801, 2024.
- [142] Yifan Wang, Zhiyu Wang, Gaoran Wang, and Liangming Chen, "Modeling and control of a coaxial pendulum drone," *IEEE Transactions on Intelligent Vehicles*, 2024, early access, doi:10.1109/TIV.2024.3454340.
- [143] Yongqiang Xiao, Guangbin Cai, and Guangren Duan, "High-order adaptive dynamic surface control for output-constrained non-linear systems based on fully actuated system approach," *International Journal of Systems Science*, vol. 55, no. 3, pp. 482–498, 2024.
- [144] Xiang Xu, "High-order fully actuated system models for discrete-time strict-feedback systems with increasing dimensions," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2454–2463, 2024.
- [145] Xiang Xu and Guang-Ren Duan, "High-order fully actuated system models for strict-feedback systems with increasing dimensions," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 12, pp. 2451–2462, 2024.
- [146] Lingchen Zhu, Liuliu Zhang, Cheng Qian, and Changchun Hua, "Multi-variable constrained control for uncertain high-order strict-feedback fully actuated nonlinear systems," *Journal of the Franklin Institute*, vol. 361, no. 17, p. 107190, 2024.
- [147] Shiyi Li, Kerun Liu, Ming Liu, and Xibin Cao, "Neuro-adaptive prescribed performance control for spacecraft rendezvous based on the fully-actuated system approach," *IET Control Theory & Applications*, vol. 18, no. 14, pp. 1868–1876, 2024.
- [148] Yu Liu, Zhao-Yan Li, Yajun Gao, and Guang-Ren Duan, "On transforming commensurate time-delay systems with multi-inputs to fully actuated systems via differential flatness," *International Journal of Systems Science*, 2024, early access, doi:10.1080/00207721.2024.2437132.
- [149] Yonghao Ma, Ke Zhang, and Bin Jiang, "Neuroadaptive cooperative fault-tolerant control of heterogeneous multiagent systems based on fully actuated system

- approaches," IEEE Transactions on Cybernetics, vol. 54, no. 8, pp. 4581-4592, 2024.
- [150] Yonghao Ma, Ke Zhang, and Bin Jiang, "Practical prescribed-time active fault-tolerant control for mixed-order heterogeneous multiagent systems: A fully actuated system approach," *Automatica*, vol. 166, p. 111721, 2024.
- [151] Guangtai Tian, Jin Tan, Bin Li, and Guangren Duan, "Optimal fully actuated system approach-based trajectory tracking control for robot manipulators," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7469–7478, 2024.
- [152] Wei Wang, Shiwei Chen, Zhongjiao Shi, and Yuchen Wang, "Neuroadaptive fully-actuated system approach for roll autopilot with unknown uncertainties," *Available at SSRN 4869788*, 2024.
- [153] Wei Wang, Shiwei Chen, Zhongjiao Shi, and Yuchen Wang, "Neuroadaptive high-order fully-actuated system approach for roll autopilot with unknown uncertainties," *Aerospace Science and Technology*, vol. 155, p. 109567, 2024.
- [154] Wei Wang, Yuchen Wang, Shiwei Chen, Yongcang Guo, and Zhongjiao Shi, "Observer-based robust high-order fully actuated attitude autopilot design for spinning glide-guided projectiles," *Defence Technology*, vol. 34, pp. 282–294, 2024.
- [155] Yi Yu, Guo-Ping Liu, Yi Huang, and Peng Shi, "Optimal cooperative secondary control for islanded DC microgrids via a fully actuated approach," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 2, pp. 405–417, 2024.
- [156] Da-Wei Zhang and Guo-Ping Liu, "Observer-based HOFA predictive cooperative control for networked multi-agent systems under time-variant communication constraints," *ISA transactions*, vol. 147, pp. 554–566, 2024.
- [157] Guangbin Cai, Yongqiang Xiao, Hao Wei, Tong Wu, and Mingzhe Hou, "Robust adaptive dynamic surface control of high-order strict feedback systems based on fully actuated system approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2464–2477, 2024.
- [158] Fei Chang, Jia Pei Kang, Sha Ri Na Huang, and Guo Liang Zhao, "Quadrotors' double-loop controller design with tensor product model transformation and partial fully actuated method," *ISA transactions*, vol. 150, pp. 181–197, 2024.
- [159] Cheng Li, Yue Zhao, Zhuang Liu, Xiaoning Shen, Yabin Gao, and Jianxing Liu, "Prescribed performance control for PEM fuel cell air supply system based on fully actuated approach with fixed regulation time," *International Journal of Circuit Theory and Applications*, 2024, early access, doi:10.1002/cta.4341.
- [160] Mingsong Li, Ke Zhang, Yonghao Ma, and Bin Jiang, "Prescribed-time fault-tolerant control for the formation of quadrotors based on fully-actuated system approaches," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2541–2555, 2024.
- [161] Qingyi Liu, Ke Zhang, Bin Jiang, and Jinfa Xu, "Prescribed-time fault-tolerant formation control for collision-free unmanned helicopters: A high-order fully actuated system approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 4, pp. 4715–4727, 2024.
- [162] Weizhen Liu, Guangren Duan, Mingzhe Hou, and He Kong, "Robust adaptive control of high-order fully-actuated systems: Command filtered backstepping with concurrent learning," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 12, pp. 5780–5791, 2024.

- [163] Yujie Xu, Yingjie Wang, Mingyu Fu, and Hao Chen, "Predefined-time hybrid tracking control for dynamic positioning vessels based on fully actuated approach," *Journal of Marine Science and Engineering*, vol. 12, no. 11, p. 2025, 2024.
- [164] Da-Wei Zhang and Guo-Ping Liu, "Predictive sliding-mode control for networked high-order fully actuated multiagents under random deception attacks," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 54, no. 1, pp. 484–496, 2024.
- [165] Da-Wei Zhang and Guo-Ping Liu, "Robust cooperative control for heterogeneous uncertain nonlinear high-order fully actuated multiagent systems," *IEEE Transactions on Cybernetics*, vol. 54, no. 10, pp. 5721–5732, 2024.
- [166] Shiyu Zhang and Guangren Duan, "Robust control of uncertain fully actuated systems with nonlinear uncertainties and perturbed input matrices," *ISA transactions*, vol. 154, pp. 160–170, 2024.
- [167] Guang-Ren Duan, "Stabilisation of four types of underactuated systems: A fas approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2421–2441, 2024.
- [168] Yajun Gao and Guangren Duan, "Robust model reference tracking control for high-order descriptor linear systems subject to parameter uncertainties," *IET Control Theory and Application*, vol. 18, no. 4, pp. 479–494, 2024.
- [169] Mengtong Gong, Li Sheng, and Donghua Zhou, "Robust fault-tolerant stabilisation of uncertain high-order fully actuated systems with actuator faults," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2518–2530, 2024.
- [170] Liyao Hu, Guangren Duan, and Mingzhe Hou, "Robust switching adaptive tracking control for uncertain high-order fully actuated systems based on fully actuated system approaches," *Journal of the Franklin Institute*, vol. 361, no. 4, p. 106659, 2024.
- [171] Yun Ma, Yuan Wang, Meng Li, Peng Wang, and Yanling Tang, "Robust predictive control of nonplanar fully-actuated UAVs," *Journal of System Simulation*, vol. 36, no. 2, pp. 415–422, 2024.
- [172] Fu-Zheng Xiao and Li-Qun Chen, "Saturated adaptive control for high-order fully actuated systems with an extended state," *International Journal of Systems Science*, vol. 55, no. 9, pp. 1947–1958, 2024.
- [173] Yunsi Yang, Jun-e Feng, and Lei Jia, "Stabilisation of multi-agent systems over finite fields based on high-order fully actuated system approaches," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2478–2493, 2024.
- [174] Da-Wei Zhang and Guo-Ping Liu, "Secure predictive control for networked high-order fully actuated systems under random DoS attacks," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 4, pp. 6935–6945, 2024.
- [175] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Secure predictive coordinated control of high-order fully actuated networked multiagent systems under random DoS attacks," *IEEE Transactions on Cybernetics*, vol. 54, no. 4, pp. 2668–2679, 2024.
- [176] Zhongcai Zhang and Guangren Duan, "Stabilization controller of an extended chained nonholonomic system with disturbance: An FAS approach," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 5, pp. 1262–1273, 2024.
- [177] Miao Cai, Xiao He, and Donghua Zhou, "Unknown nonaffine high-order fully actuated

- systems: Trajectory tracking and fault tolerance," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 54, no. 6, pp. 3854–3864, 2024.
- [178] Qinbo Huang and Jitao Sun, "Tracking control for a class of fully actuated systems on manifolds with impulsive effects," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 14, pp. 9536–9557, 2024.
- [179] Hong Jiang, Guangren Duan, and Mingzhe Hou, "State and disturbance observer-based controller design for fully actuated systems," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 11, pp. 5261–5270, 2024.
- [180] Lingling Lv, Zikai Li, and Xinyang Liu, "Structural properties of linear discrete periodic systems based on fully actuated system approaches," *Asian Journal of Control*, vol. 26, pp. 3118–3125, 2024.
- [181] Na Wang, Xiaoping Liu, Cungen Liu, and Huanqing Wang, "Weak disturbance decoupling of high-order fully actuated nonlinear systems," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 3, pp. 1971–2012, 2024.
- [182] Peng Wang, Xiaogao Xing, Waqar Younis, Nasim Ullah, Lukas Prokop, Stanislay Misak, and Zubair Yamin, "Torsional vibration adaptive neural network fault-tolerant control of the main drive system for the rolling mill," *IEEE Access*, vol. 12, pp. 125585–125591, 2024.
- [183] Ai-Guo Wu, Yu-Tian Xu, and Jie Mei, "State responses of several classes of linear systems based on fundamental matrices," *IEEE Transactions on Cybernetics*, vol. 54, no. 9, pp. 5577–5590, 2024.
- [184] Lin Yang and Yuanlong Li, "Tracking control for nonlinear high-order fully actuated system with state constraints: An explicit reference governor approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2531–2540, 2024.

- [185] Yang Chen, Dandan Zhang, Zhikai Zhang, and Heng Zhang, "A high-order fully actuated system approach for prescribed performance tracking control of quadrotor unmanned aerial vehicle with time-varying uncertain aerodynamic parameters and disturbances," *International Journal of Robust and Nonlinear Control*, vol. 35, no. 6, pp. 2246–2257, 2025.
- [186] Yang Chen, Dandan Zhang, Zhikai Zhang, and Heng Zhang, "A high-order fully actuated system approach for prescribed performance tracking control of quadrotor unmanned aerial vehicle with time-varying uncertain aerodynamic parameters and disturbances," *International Journal of Robust and Nonlinear Control*, vol. 35, no. 6, pp. 2246–2257, 2025.
- [187] Zhijun Chen and Guangren Duan, "Adaptive RISE-based tracking control of uncertain nonlinear systems: A FAS approach," *ISA Transactions*, vol. 156, pp. 501–512, 2025.
- [188] Xueqing Liu, Maoyin Chen, Donghua Zhou, and Li Sheng, "Adaptive actuator fault-tolerant tracking control for stochastic high-order fully actuated systems," *IEEE Transactions on Cybernetics*, 2025, early access, doi:10.1109/TCYB.2025.3535774.
- [189] Xueqing Liu, Donghua Zhou, and Li Sheng, "Active fault-tolerant control for stochastic fully actuated systems with local faults," *IEEE Transactions on Industrial Informatics*, pp. 1–11, 2025, early access, doi:10.1109/TII.2025.3547025.

- [190] Zhijie Liu, Fuxing Yao, Lujun Sun, Fei Han, Guangren Duan, and He Kong, "A high-order fully actuated system approach to attitude control of 3D cubli," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, early access, doi:10.1109/TAES.2025.3567962.
- [191] Zhongjiao Shi, Zhijie Liu, Feng Han, and Xinchun Wang, "Adaptive attitude control for spinning projectiles with time-varying aerodynamic uncertainties," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, early access, doi:10.1109/TCYB.2025.3535774.
- [192] Gengke Wang, Delong Yang, Lingling Lv, Zhongyang Li, Shuchun Zhao, Nan Zhao, Kangle Zheng, and Qiuyan Li, "Active disturbance rejection control of hydraulic turbine based on fully actuated system theory," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2506007.
- [193] Yifan Wang and Wei Sun, "Adaptive decentralized control for second-order large-scale nonlinear systems via fully actuated system approach," *Communications in Nonlinear Science and Numerical Simulation*, vol. 143, p. 108616, 2025.
- [194] Yadong Wei and Bo Zhang, "A robust controller based on high-order fully actuated approach for DC-DC buck converter with constant power loads in DC microgrids," *IEEE Transactions on Power Electronics*, vol. 40, no. 7, pp. 9090–9106, 2025.
- [195] Guangren Duan, "Constrained unidirectionally connected FASs: Part I. Models," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2466806.
- [196] Yang Gao, Zhongcai Zhang, Nan Jiang, and Yuqiang Wu, "Anti-swing control for double-pendulum overhead cranes: From underactuated to FAS configuration," *IEEE Transactions on Industrial Electronics*, 2025, early access, doi:10.1109/TIE.2025.3544192.
- [197] Ming Hou, Limeng Jia, and Zhengqin Wang, "Adaptive parameter approaching law-based sliding mode control for wheeled robots," *IEEE Access*, vol. 13, pp. 14881–14890, 2025.
- [198] Yi Huang, Guo-Ping Liu, Yi Yu, and Wenshan Hu, "Constrained networked predictive control for nonlinear systems using a high-order fully actuated system approach," *IEEE/CAA Journal of Automatica Sinica*, vol. 12, no. 2, pp. 478–480, 2025.
- [199] Zhibin Mo, Wanquan Liu, and Hui-Jie Sun and, "Behavioral control for multiple omnidirectional mobile robots via fully actuated system approach," *International Journal of Systems Science*, 2025, early access, doi: 10.1080/00207721.2025.2506004.
- [200] Chenliang Wang, Zhihui Wang, Wenshuo Li, Aiguo Wu, and Lei Guo, "Composite disturbance filtering and full actuation control for fully observed systems," *Science China Information Sciences*, vol. 68, no. 7, pp. 1–13, 2025.
- [201] Yongqiang Xiao, Guangbin Cai, and Mingrui Hao, "Adaptive dynamic surface control for high-order strict-feedback systems with input saturation: A fully actuated system approach," *IET Control Theory & Applications*, vol. 19, no. 1, p. e70010, 2025.
- [202] Yueyao Ye, Debao Fan, and Xianfu Zhang, "Adaptive event-triggered control for uncertain strict-feedback nonlinear systems with actuator faults: A fully actuated system approach," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2468864.

- [203] Cui-Hua Zhang, Lou Wang, Ying Zhang, Dan Zhang, Li Li, and Chang-Chun Hua, "Adaptive event-triggered control combined with high-order backstepping for pure feedback nonlinear systems," *IEEE Transactions on Cybernetics*, vol. 55, no. 4, pp. 1884–1892, 2025.
- [204] Menghua Zhang, Zengcheng Zhou, Ning Sun, Haokun Geng, Jing Zhao, and Zhixin Yang, "Bioinspired reference model and fully actuated system approach-based neuroadaptive control for uncertain active suspension systems with input dead zones," *IEEE Transactions on Industrial Electronics*, 2025, early access, doi:10.1109/TIE.2025.3536552.
- [205] Kai-Xin Cui, Guang-Ren Duan, and Yang Cui, "Discrete-time high-order fully actuated robust stabilization control for a type of combined spacecraft subject to uncertainties," *Asian Journal of Control*, 2025, early access, doi:10.1002/asjc.3574.
- [206] Guangren Duan, "Constrained unidirectionally connected FASs: Part III. Applications," *International Journal of Systems Science*, 2025, early access, doi: 10.1080/00207721.2025.2467221.
- [207] Guangren Duan and Guang-Ren Duan, "Constrained unidirectionally connected FASs: Part II. Sub-stabilisation," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2467223.
- [208] Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "FAS-based anti-disturbance stabilization control of nonholonomic systems: Theory and experiment," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 3608–3620, 2025.
- [209] Yuan Lu, Bo Meng, and Xuan Jin, "Fault-tolerant formation-containment control for UAVs with sensor faults and obstacle avoidance," *International Journal of Aeronautical and Space Sciences*, pp. 1–15, 2025, early access, doi:10.1007/s42405-025-00926-6.
- [210] Yunfei Qiu and Qidong Li, "Event-triggered tracking control for a class of nonlinear systems based on high-order fully actuated system theory," *SCIENCE CHINA-INFORMATION SCIENCES*, vol. 68, no. 5, 2025.
- [211] Wei Wang, Shiwei Chen, Junfang Fan, and Hongyan Zhang, "Correction to "Robust second-order backstepping design of integrated guidance and control based on a fully actuated system approach" *International Journal of Robust and Nonlinear Control*, 2025, early access, doi:10.1002/rnc.8038.
- [212] Haotian Xu, Shuai Liu, Yueyang Li, and Ke Li, "Distributed observer for full-measured nonlinear systems based on knowledge of FMCF," *IEEE/CAA Journal of Automatica Sinica*, vol. 12, no. 1, pp. 69–85, 2025.
- [213] Yi Heng Yang, Kai Zhang, Zhi Hua Chen, Xue Fei Yang, and Guang Ren Duan, "Distributionally robust model predictive control for trajectory tracking of space manipulator based on fully actuated system approach," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, early access, doi:10.1109/TAES.2025.3558184.
- [214] Zhong-Cai Zhang, Guang-Ren Duan, and Yu-Qiang Wu, "Continuous stabilization controller for nonlinear systems with two piecewise controllers and its application to underactuated ships," *IEEE Transactions on Cybernetics*, vol. 55, no. 4, pp. 1594–1605, 2025.
- [215] Cheng He, Ruiyun Qi, and Bin Jiang, "Fixed-time fault-tolerant control of a high-order

- fully actuated system under actuator faults and uncertain parameters," *International Journal of Robust and Nonlinear Control*, 2025, early access, doi:10.1002/rnc.8046.
- [216] Zhan Li, Yipeng Yang, Xinghu Yu, Cuiyu Liu, Okyay Kaynak, and Huijun Gao, "Fixed-time control of a novel thrust-vectoring aerial manipulator via high-order fully actuated system approach," *IEEE/ASME Transactions on Mechatronics*, vol. 30, no. 2, pp. 1084–1095, 2025.
- [217] Yuan Lu, Ke Zhang, Lihua Shen, and Jingping Xia, "Fixed-time fault-tolerant formation-containment control for unmanned helicopters via a fully actuated system approach," *Applied Mathematical Modelling*, vol. 143, p. 116004, 2025.
- [218] Bo Meng, Lihua Shen, Ke Zhang, and Jingping Xia, "Fully actuated system approach-based fault-tolerant formation reconstruction control and optimal task assignment for fixed-wing UAVs," *Nonlinear Dynamics*, vol. 113, no. 1, pp. 645–659, 2025.
- [219] Jiaping Qiang, Li Li, Changchun Hua, Xiangyi Ren, and Chao Liu, "Fixed-time generalized VGESO-based trajectory tracking control for WMRs on uneven road: A fully actuated system approach," *IEEE Transactions on Circuits and Systems I: Regular Papers*, pp. 1–13, 2025, early access, doi:10.1109/TCSI.2025.3560091.
- [220] Dian Wang, Yunhua Wu, Chengfei Yue, and Songjing Ma, "Fully actuated system-based active disturbance rejection saturated attitude control for flexible spacecraft," *Journal of the Franklin Institute*, vol. 362, no. 6, p. 107613, 2025.
- [221] Yuhang Xu, Bin Jiang, Marios M Polycarpou, and Bingyun Li, "Fault-tolerant game control for quadrotor helicopters' formation: A fully actuated system approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 2, pp. 4808–4824, 2025.
- [222] Tong Yang, Menghua Zhang, Wei Sun, and Ning Sun, "Fully-actuated system approach-based neuroadaptive control for underactuated robots with state estimation and delay," *IEEE Transactions on Cybernetics*, 2025, early access, doi:10.1109/TCYB.2025.3562652.
- [223] Menghua Zhang, Zengcheng Zhou, Ning Sun, and Jing Zhao, "Fully actuated system approach to robust control for uncertain active suspension systems," *Nonlinear Dynamics*, vol. 113, no. 8, pp. 8757–8768, 2025.
- [224] Menghua Zhang, Zengcheng Zhou, Ning Sun, and Jing Zhao, "Fully actuated system approach to robust control for uncertain active suspension systems," *Nonlinear Dynamics*, vol. 113, no. 8, pp. 8757–8768, 2025.
- [225] Zhenyu Feng, Ming Liu, Lixian Zhang, Xibin Cao, and Guangren Duan, "Leader-follower attitude coordination control for spacecraft formations with Gaussian processes," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, early access, doi:10.1109/TAES.2025.3568420.
- [226] Jiao Hu, Yuhang Xu, and Bin Jiang, "Game-based fault-tolerant formation containment control for fixed-wing UAVs under the fully actuated system framework," *Aerospace Science and Technology*, vol. 160, p. 110052, 2025.
- [227] Qinbo Huang, Jitao Sun, and Min Zhao, "Hybrid impulsive control for global stabilization of subfully actuated systems," *ISA Transactions*, vol. 156, pp. 401–407, 2025.
- [228] Shixiang Jia, Jianbin Qiu, and Tong Wang, "High-order fully actuated system

- approach-based attitude stabilization for underactuated rigid and flexible spacecraft," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 15094–15105, 2025, early access, doi: 10.1109/TAC.2025.3549689.
- [229] Ping Li, Guangren Duan, Bi Zhang, Ping Wang, and Yuzhong Wang, "High-order fully actuated approach for output tracking control of flexible servo systems subject to uncertainties and disturbances," *IEEE Transactions on Industrial Electronics*, 2025, early access, 10.1109/TIE.2025.3531480.
- [230] Chao Ning, Junhao Zhao, and Han Wang, "Learning-enabled stochastic predictive control for nonlinear discrete-time step backward high-order fully actuated systems," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2024.2448591.
- [231] Pengju Ning, Changchun Hua, and Hao Li, "Global prescribed-time control for a calss of fully actuated nonlinear systems," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2505713.
- [232] Cui-Hua Zhang, Lou Wang, Ying Zhang, Weili Ding, and Changchun Hua, "High-order fully actuated system approaches for a class of pseudo pure-feedback nonlinear systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 55, no. 1, pp. 635–644, 2025.
- [233] Feng Zhang, Hao Sun, Haipeng Chen, and Shengbao Wu, "Integrated control design for orbit injection of launchers via fully-actuated system approach," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2487547.
- [234] Qing-Hao Zhang and Jun-Guo Lu, "H∞ consensus control for high-order fully actuated multi-agent systems with external disturbances," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2492301.
- [235] Yuxin Feng, Yang Liu, Zhiqiang Li, Zhaoshui He, and Hongyi Li, "Parameter identification-based adaptive practical prescribed-time control for nonlinear fully actuated systems," *International Journal of Systems Science*, 2025, early access, doi:10.1080/00207721.2025.2504053.
- [236] Mengtong Gong, Donghua Zhou, Li Sheng, and Xiao He, "Multicontroller-based fault-tolerant control for uncertain high-order sub-fully actuated systems," *IEEE Transactions on Cybernetics*, 2025, early access, doi:10.1109/TCYB.2025.3560406.
- [237] Huixin Jiang, Yana Yang, Changchun Hua, Xiaolei Li, and Fangyao Lu, "Predefined-time composite fuzzy adaptive control for flexible-joint manipulator system with high-order fully actuated control approach," *IEEE Transactions on Industrial Electronics*, 2025, early access, doi:10.1109/TIE.2024.3515255.
- [238] Zhi Li and Ying Zhang, "Observer-based practically prescribed-time stabilisation of fully actuated systems with mismatched disturbances," *International Journal of Control*, 2025, early access, doi:10.1080/00207179.2025.2501088.
- [239] Long-wen Liu, Jin-yang Huang, and Awais Khan, "Luenberger-like interval observer design in the physical framework of uncertain vector second-order dynamic systems," *Journal of the Franklin Institute*, vol. 362, no. 4, p. 107549, 2025.
- [240] Wei Wang, Shiwei Chen, Zhongjiao Shi, and Yuchen Wang, "Neuroadaptive fully-actuated system approach for roll autopilot with unknown uncertainties," *Available at SSRN 4869788*, 2025.

- [241] Fu-Zheng Xiao, He Ba, Mu-Qing Niu, and Li-Qun Chen, "Observer-based robust attitude control of liquid-filled flexible spacecraft in a fully actuated system framework," *Journal of Aerospace Engineering*, vol. 38, no. 3, p. 04025016, 2025.
- [242] Yongqiang Xiao, Guangbin Cai, and Guangren Duan, "Practical prescribed-time control for high-order strict-feedback systems based on fully actuated system approach," *IEEE Transactions on Circuits and Systems I: Regular Papers*, 2025, early access, doi:10.1109/TCSI.2025.3558831.
- [243] Jing Xu, Kai Zhang, Zhaoke Ning, and Zhihua Chen, "Neural network-based fully actuated trajectory tracking control for space manipulator with system uncertainties," *Neurocomputing*, p. 130399, 2025.
- [244] Xiangxiang Zou, Hui-Jie Sun, Deshan Meng, Taowen Guo, and Bin Liang, "Practical prescribed-time trajectory tracking control for a novel tendon-driven space manipulator via fully actuated system approaches," *IEEE/ASME Transactions on Mechatronics*, 2025, early access, doi:10.1109/TMECH.2025.3528990.
- [245] Da-Ke Gu, Hao-Meng Li, and Yin-Dong Liu, "Robust adaptive control for high-order nonlinear systems with unknown upper bound uncertainties based on fully actuated system approaches and multi-objective optimization," *International Journal of Robust and Nonlinear Control*, 2025, early access, doi:10.1002/rnc.7833.
- [246] Changchun Hua, Jiafeng Zhou, Bo Zhang, Yu Zhang, and Xi Luo, "Prescribed performance tracking control for electro-hydraulic systems with output constraints and valve dynamics compensation," *Nonlinear Dynamics*, vol. 113, pp. 13211–13223, 2025.
- [247] Hong Jiang, Guangren Duan, and Mingzhe Hou, "Robust adaptive control based on reduced-order unknown input observer for fully actuated systems with uncertainties," *IEEE Transactions on Circuits and Systems I: Regular Papers*, 2025, early access, doi:10.1109/TCSI.2025.3559719.
- [248] Zhihao Liu and Peng Li, "Robust formation control of quadrotor UAVs: A fully-actuated control approach," *Unmanned Systems*, 2025, early access, doi:10.1142/S2301385025500918.
- [249] Yuan Lu, Jingping Xia, Lihua Shen, and Ke Zhang, "Predictive control strategy based fault-tolerant formation control for fully actuated multi-agent systems," *Circuits, Systems, and Signal Processing*, 2025, early access, doi: 10.1007/s00034-025-03125-6.
- [250] Yonghao Ma, Ke Zhang, and Bin Jiang, "Prescribed-time fault-tolerant containment control of fully actuated heterogeneous multiagent systems without estimations of fault parameters," *IEEE Transactions on Automation Science and Engineering*, 2025, early access, doi:10.1109/TAC.2025.3549689.
- [251] Wei Wang, Shiwei Chen, Junfang Fan, and Hongyan Zhang, "Robust second-order backstepping design of integrated guidance and control based on a fully actuated system approach," *International Journal of Robust and Nonlinear Control*, 2025.
- [252] Yifan Wang, Wei Sun, and Shun-Feng Su, "Prescribed-time consensus tracking for high-order MASs with privacy protection via fully actuated system approach," *IEEE Transactions on Automation Science and Engineering*, 2025, early access, doi:10.1109/TASE.2025.3570513.
- [253] Ai-Guo Wu, "Properties of fundamental matrix groups for high-order linear time-invariant systems," *IEEE Transactions on Automatic Control*, 2025, early access,

- doi:10.1109/TAC.2025.3549689.
- [254] Shiyu Zhang and Guangren Duan, "Robust adaptive control of uncertain fully actuated systems with unknown parameters and perturbed input matrices," *IEEE Transactions on Cybernetics*, vol. 55, no. 2, pp. 927–938, 2025.
- [255] Yuqi Jiang, Qian Wang, Guoda Chen, and Zhengguang Wu, "Sliding mode fault-tolerant control for nonlinear high-order fully actuated systems," *IEEE Transactions on Cybernetics*, vol. 55, no. 1, pp. 184–193, 2025.
- [256] Dongyan Jin, Yannan Bi, Tong Wang, Jianbin Qiu, and Huijun Gao, "Twistors-based attitude-orbit integrated control for spacecraft: A high-order fully actuated system approach," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 55, no. 3, pp. 2098–2105, 2025.
- [257] Cesar Limones, Nimrod Vázquez, Ricardo Femat, Leonel Estrada, Jeziel Vázquez, Claudia Hernandez, Angel de Castro, and Joaqun Vaquero, "Single-phase grid-connected inverter with predictive control cost function for leakage current mitigation and FAS model," *ÍEEE Open Journal of the Industrial Electronics Society*, vol. 6, pp. 764–774, 2025.
- [258] Weijie Ren, Guang-Ren Duan, Ping Li, and He Kong, "Set-based fault-tolerant control for continuous-time nonlinear systems: A fully actuated system approach," *IEEE/ASME Transactions on Mechatronics*, pp. 1–12, 2025, early access, doi:10.1109/TMECH.2025.3565876.
- [259] Chong Tan, Teng Zhang, Yanjiang Li, and Guo-Ping Liu, "Time-varying group formation tracking control for uncertain nonlinear high-order fully actuated multiagent systems," *Nonlinear Dynamics*, vol. 113, no. 3, pp. 2293–2314, 2025.
- [260] Fu-Zheng Xiao and Li-Qun Chen, "Unwinding-free attitude control based on fully actuated systems: Transformation, design, and analysis," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, early access, doi:10.1109/TAES.2025.3540039.
- [261] Quanmin Zhu, Weicun Zhang, Shaoyuan Li, Qiang Chen, Jing Na, and Haigang Ding, "U-control—a universal platform for control system design with inversion/cancellation of nonlinearity, dynamic and coupling through model-based to model-free procedures," *International Journal of Systems Science*, vol. 56, no. 3, pp. 484–501, 2025.

二、国际会议论文

- [262] Guangquan Duan and Guoping Liu, "Fully-actuated system approach in attitude tracking control for spacecraft," in 37th Youth Academic Annual Conference of Chinese Association of Automation (YAC), Nov. 19-20, Beijing, China, 2022, pp. 877–881.
- [263] Guangquan Duan and Guoping Liu, "Optimal control of fully-actuated systems for spacecraft rendezvous," in *41st Chinese Control Conference (CCC)*, Jul. 25-27, Heifei, China, 2022, pp. 1690–1695.
- [264] Huijie Sun, Yuyao Wu, Xiansheng Yang, and Wanquan Liu, "Predefined-time control for robotic manipulators based on fully actuated system approaches," in *China Automation Congress (CAC)*, Nov. 25-27, Xiamen, China, 2022, pp. 4912–4916.
- [265] Shuo Wang, Dake Gu, and Yindong Liu, "High-order fully actuated system approach

- for quasi-linear time-delay systems," in *China Automation Congress (CAC)*, Nov. 25-27, Xiamen, China, 2022, pp. 2775–2779.
- [266] Yanqiao Wei, Changchun Hua, and Dayan Liu, "Fractional order controller design for a class of nonlinear systems by high-order fully actuated system approach," in *China Automation Congress (CAC)*, Nov. 25-27, Xiamen, China, 2022, pp. 2439–2443.
- [267] Fei Yan and Guoxiang Gu, "Asymptotic full actuation control for a class of nonlinear systems," in *International Conference on Industrial Artificial Intelligence (IAI)*, Aug. 24-27, Shenyang, China, 2022, pp. 1–6.
- [268] Yipeng Yang, Xinghu Yu, Yuan Li, Sichen Yang, Zhan Li, and Huijun Gao, "Angular acceleration observer design for jerk-level control of tiltrotors based on the high-order fully actuated system approaches," in *Chinese Automation Congress*, Nov. 25-27, Xiamen, China, 2022, pp. 3750–3755.
- [269] Da-Wei Zhang and Guo-Ping Liu, "Constrained control of networked high-order fully actuated systems via predictive control," in 2022 41st Chinese Control Conference (CCC), Jul. 2022, pp. 4366–4371.
- [270] Da-Wei Zhang, Guo-Ping Liu, and Baolin Tan, "Predictive control of networked high-order fully actuated systems with packets dropouts," in 2022 37th Youth Academic Annual Conference of Chinese Association of Automation (YAC), 2022, pp. 871–876.
- [271] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Orbit injection control of launcher via a fully-actuated system approach," in *Chinese Automation Congress*, Nov. 25-27, Xiamen, China, 2022, pp. 6351–6354.
- [272] Shiwei Chen, Junfang Fan, Wei Wang, Yi Ji, and Ning Liu, "Terminal impact-angle-constrained guidance law of miniature munition based on high-order fully actuated system approach," in *China Automation Congress (CAC)*, Nov. 25-27, Xiamen, China, 2022, pp. 4230–4235.
- [273] Xueqing Liu, Maoyin Chen, Li Sheng, and Donghua Zhou, "Stochastic high-order fully-actuated systems: Model, equivalence and stabilization," in *China Automation Congress (CAC)*, Nov. 25-27, Xiamen, China, 2022, pp. 4371–4376.

- [274] Kai-Xin Cui and Guang-Ren Duan, "Adaptive disturbance observer design for discrete-time high-order fully actuated systems based on LMI and its application to combined spacecrafts," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 12–17.
- [275] Zhenyu Feng, Ming Liu, and Xibin Cao, "A fully-actuated system approach for spacecraft attitude control with input saturation," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 705–710.
- [276] Mingsong Li, Ke Zhang, Qiyang Miao, and Bin Jiang, "Adaptive fault-tolerant control for attitude and altitude synchronization of quadrotors based on fully-actuated system approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 480–485.
- [277] Xueqing Liu, Maoyin Chen, Li Sheng, and Donghua Zhou, "Adaptive fault-tolerant control for stochastic high-order fully actuated systems with local faults," in 2023 CAA Symposium on Fault Detection, Supervision and Safety for Technical Processes

- (SAFEPROCESS). IEEE, 2023, pp. 1–7.
- [278] Lou Wang, Yu-Xuan Liu, Cui-Hua Zhang, Chang-Chun Hua, and Yan-Qiao Wei, "Adaptive event-triggered control for the nonlinear cascade systems: A HOFA system approach," in 2023 IEEE 13th International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (CYBER). IEEE, 2023, pp. 356–361.
- [279] Xiubo Wang and Guangren Duan, "A subfully actuated system application: Predictive control for multi-RTAC systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 948–953.
- [280] Yuhan Xu, Zelong Wu, Le Wei, Ying Zhang, and Fang Fang, "A maximum power point tracking control method for wind turbines with uncertainties based on fully actuated system theory," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 845–850.
- [281] Chengyuan Yan, Xiao Wang, Tianjiao Liu, Jianwei Xia, and Wei Sun, "Adaptive event-triggered fuzzy control of flexible-joint robot: A fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 811–814.
- [282] Da-Wei Zhang and Guo-Ping Liu, "A high-order fully actuated predictive control approach for spacecraft flying-around," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 954–959.
- [283] Yaowen Zhang and Chunjun Chen, "A new lateral semi-active control strategy for the railway vehicle with built-in bogies based on fully-actuated system approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 880–887.
- [284] Shida Cao and Guangren Duan, "Bearing-only circumnavigation based on fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 361–366.
- [285] Yajun Gao and Guang-Ren Duan, "Adaptive finite-time control of uncertain mixed-order fully actuated nonlinear systems with parameter estimations," in 2023 China Automation Congress (CAC). IEEE, 2023, pp. 7658–7662.
- [286] Quan-Zhi Liu, Guo-Wei Fan, Liu Zhang, Xue-Ying Lv, Yu Gao, Yang Xiao, and Ying Song, "Attitude tracking control of rigid spacecraft based on fully actuated system models," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 998–1003.
- [287] Xinyu Liu, Mingrui Hao, Yu Fan, Yan Zhen, and Yutao Zhuang, "Aircraft attitude control on high-order fully actuated system theory," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 687–692.
- [288] Guangtai Tian and Guangren Duan, "Adaptive model reference tracking for high-order nonlinear time-varying systems with time-varying delays: A fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 24–30.
- [289] Fu-Zheng Xiao and Li-Qun Chen, "An equivalent form of a class of high-order fully actuated systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 1–5.
- [290] Shengze Yuan and Shuai Yuan, "Adaptive-control of controlled floating space robots

- based on fully-actuated system theory," in 2023 IEEE 2nd Industrial Electronics Society Annual On-Line Conference (ONCON), 2023, pp. 1–2.
- [291] Da-Wei Zhang and Guo-Ping Liu, "An observer-based high-order fully actuated predictive control for systems with network constraints," in 2023 42nd Chinese Control Conference (CCC). IEEE, 2023, pp. 5212–5217.
- [292] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Attitude tracking control of launcher with structural misalignment based on fully-actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 1051–1054.
- [293] Yu-Zhuo Zhao and Dan Ma, "Adaptive prescribed performance control for uncertain nonlinear HOFA systems with time delay," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 763–768.
- [294] Xudong Dong, Wenjing Xi, Jilie Zhang, Huaguang Zhang, and Hongwei Zhang, "Decentralized tracking control for high-speed train: A fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 874–879.
- [295] Guang-Quan Duan, Guo-Ping Liu, and Yan-Ming Fu, "Combined spacecraft attitude tracking control with prescribed performance via a fully actuated system approach," in 2023 42nd Chinese Control Conference (CCC). IEEE, 2023, pp. 5253–5257.
- [296] Yixin Huang, Qi Chang, Yiwen Zhou, Bin Xia, and Yihuan Jin, "Direct force sliding mode attitude control based on fully actuated system theory," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 106–110.
- [297] Lin Li, Yanhong Liu, Zhenlong Wu, and Donghai Li, "Controllability, stability and design for high-order fully actuated systems: Special cases studies," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 851–856.
- [298] Xinyu Liu, Mingrui Hao, Yu Fan, Yan Zhen, and Keyuan Yue, "Common aircraft formation control methods and application prospects of high order fully actuated system theory in aircraft formation control," in *Chinese Conference on Swarm Intelligence and Cooperative Control*. Springer, 2023, pp. 435–444.
- [299] Shi Lu, Konstantinos Tsakalis, and Yan Chen, "Development and application of a novel high-order fully actuated system approach: Part II. 6-DOF quadrotor control," in *2023 American Control Conference (ACC)*, 2023, pp. 661–666.
- [300] Lingling Lv and Zikai Li, "Controllability of linear discrete periodic systems based on fully-actuated system approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 42–48.
- [301] Lisong Sun, Dazhi Wang, Yongliang Ni, Keling Song, Yufei Qi, and Yanming Li, "Design of permanent-magnet eddy-current coupler speed control system based on fully-actuated system model," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 54–58.
- [302] Yunsi Yang, Jun-e Feng, and Zhe Gao, "Controllability of multi-agent systems over finite fields based on high-order fully actuated system approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 283–289.

- [303] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Control design for a class of cascaded nonlinear systems: Backstepping vs fully-actuated system approach," in *Proceedings-2023 Chinese Automation Congress*. IEEE, 2023, pp. 8593–8596.
- [304] Zhongyu Chen, Li Sheng, and Ming Gao, "Event-triggered control for nonlinear systems: A high-order full-actuation approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 71–76.
- [305] Guang-Quan Duan and Guo-Ping Liu, "Fully actuated system game-based attitude control for combined spacecraft," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 983–986.
- [306] Qin Huang and Ying Zhang, "Finite-time attitude tracking for fully-actuated flexible spacecraft without angular velocity measurements," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 1061–1066.
- [307] Yang Liu, Jiaming Zhang, and Xinxi Lu, "Distributed containment control for nonlinear HOFA-MASs," in 2023 IEEE 12th Data Driven Control and Learning Systems Conference (DDCLS). IEEE, 2023, pp. 846–851.
- [308] Yiqun Liu, Qingyu Zhu, Zekun Wang, Yifan Wu, Yujing Pang, Jingjuan Zhu, and Guangming Zhuang, "H∞ admissibilization for second-order fully actuated fuzzy delayed singular impulsive systems with markovian jump characteristic," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 384–389.
- [309] Dian Wang, Yunhua Wu, Xiaoran Chen, Yeqing Zhang, Shuhan Liu, and Yuhe Mao, "Fully actuated system based spacecraft attitude finite time control," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 100–105.
- [310] Jiao Wu, Yuehua Liu, Ming Liu, and Xibin Cao, "Fully-actuated-system-approach-based attitude-orbit integrated control for spacecraft formation flying," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 717–722.
- [311] Da-Wei Zhang and Guo-Ping Liu, "Game-based control of systems under network constraints via a high-order fully actuated predictive control," in 2023 9th International Conference on Control Science and Systems Engineering (ICCSSE). IEEE, 2023, pp. 338–343.
- [312] Xingyu Zhang, Xuemei Zheng, Zongxuan Liu, and Weizhen Liu, "Fully actuated system modeling and control of LCL grid-connected inverter," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 857–861.
- [313] Qin Zhao and Guangren Duan, "Fully actuated system approach based tracking control of space manipulator with an optimal gain," in *2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA)*, 2023, pp. 966–971.
- [314] Miao Cai, Xiao He, and Donghua Zhou, "High-order fully actuated systems: Tolerating multiplicative actuator faults," in 2023 CAA Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS). IEEE, 2023, pp. 1–6.
- [315] Yan Fang, Yanfeng Chen, Bo Zhang, and Dongyuan Qiu, "Modeling and controller design of buck converter based on fully actuated system theory," in 2023 IEEE 6th International Electrical and Energy Conference (CIEEC). IEEE, 2023, pp. 1202–1207.

- [316] Cheng Li, Xiaoning Shen, Fei Yan, Yabin Gao, and Jianxing Liu, "Observer-based control of PEMFC air feed systems via high-order fully actuated system approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 711–716.
- [317] Ping Li and Guangren Duan, "High-order fully actuated control approach for flexible servo systems using dynamical compensator," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 862–867.
- [318] Yonghao Ma, Ke Zhang, Bin Jiang, Silvio Simani, and Wanglei Cheng, "Neural-network-based adaptive fault-tolerant control for nonlinear systems: A fully actuated system approach," in 2023 6th International Symposium on Autonomous Systems (ISAS). IEEE, 2023, pp. 1–6.
- [319] Yuzhong Wang and Guangren Duan, "Neural-network-based high-order sliding mode control via high-order fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 188–192.
- [320] Yongqiang Xiao, Guangbin Cai, Mingzhe Hou, and Xunliang Yan, "High-order robust dynamic surface control for uncertain nonlinear systems based on fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 728–733.
- [321] Xiang Xu, "High-order fully actuated system models for discrete-time strict-feedback systems with increasing dimensions," in *2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA)*, 2023, pp. 66–70.
- [322] Qin Zhao, Guang-Ren Duan, and Guangtai Tian, "Neural network-based fully actuated system approach for free-flying space manipulator," in *2023 China Automation Congress* (*CAC*). IEEE, 2023, pp. 7226–7231.
- [323] Yanqiu Zheng, Longchuan Li, and Shugen Ma, "Legged locomotion control of an under-actuated eccentric paddle mechanism with torso stabilization," in 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023, pp. 4293–4298.
- [324] Miao Cai, Xiao He, and Donghua Zhou, "Sensor fault tolerance for high-order fully-actuated systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 403–408.
- [325] Yunqi Chen, Guangren Duan, and Tan Wang, "Optimal control for discrete-time step backward high-order fully actuated models," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 59–65.
- [326] Mengtong Gong, Li Sheng, and Donghua Zhou, "Robust fault-tolerant control for uncertain high-order fully actuated systems with actuator faults," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 532–537.
- [327] Hong Jiang and Guangren Duan, "Output tracking based on generalized proportional-integral observer for fully actuated systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 117–121.
- [328] Jiawei Li, Ming Liu, and Tao Nie, "Spacecraft attitude control with fully actuated system and particle swarm optimization approaches," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 77–82.

- [329] Zhi Li and Ying Zhang, "Practical prescribed-time attitude control for flexible spacecraft based on disturbance observer," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 1055–1060.
- [330] Youpeng Xing, Zeyang Yin, and Caisheng Wei, "Safety-guaranteed control for fly-around with noncooperative space target via a fully-actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA). IEEE, 2023, pp. 1010–1015.
- [331] Xiaohui Yan, Liang Yu, Guiwei Shao, Shuyi Shao, and Jing Zhang, "Robust trajectory tracking control for quadrotor UAV with external disturbances via fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 783–787.
- [332] Shiyu Zhang and Guangren Duan, "Robust stabilization control for high-order sub-fully actuated systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 573–578.
- [333] Bin Zhou, Jiacheng Dong, and Guang-Ren Duan, "On transforming single input linear time-varying systems into high-order fully actuated systems," in *2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA)*, 2023, pp. 49–53.
- [334] Sun Hao and Huang Ling, "Trajectory tracking control of a 6-DOF manipulator," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA). IEEE, 2023, pp. 775–782.
- [335] Dongyan Jin, Shixiang Jia, Tong Wang, and Jianbin Qiu, "Spacecraft attitude tracking control based on high-order fully actuated system approach," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 1040–1044.
- [336] Xinyu Liu, Mingrui Hao, Yan Zhen, and Yu Fan, "Static unstable STT overload control on high-order fully actuated system theory," in 2023 6th International Symposium on Autonomous Systems (ISAS). IEEE, 2023, pp. 1–6.
- [337] Xueqing Liu, Maoyin Chen, Sheng Li, and Donghua Zhou, "Stabilization control for stochastic high-order fully-actuated systems with persistent disturbances," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 31–36.
- [338] Hang Xie and Hongwei Zhang, "Switching control for a class of sub-fully actuated systems," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 37–41.
- [339] Lin Yang and Yuanlong Li, "Tracking control for high-order fully actuated system with input constraints by explicit reference governor," in 2023 2nd Conference on Fully Actuated System Theory and Applications (CFASTA), 2023, pp. 769–774.

- [340] Xiao-Meng Guo, Da-Ke Gu, and Yin-Dong Liu, "A fully actuated system approach for robust control of a type of feedback linearizable system," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 171–176.
- [341] Yongchao Jiang, Chenggang Wang, Ziqi He, and Lei Song, "A differentiable QP-based learning framework for safety-critical control of fully actuated auvs," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp.

- 259-264.
- [342] Dongyan Jin, Mingyu Hou, Tong Wang, and Jianbin Qiu, "Adaptive attitude tracking control of spacecraft based on high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1532–1537.
- [343] Xueqing Liu, Sheng Li, and Donghua Zhou, "Actuator faults tolerance for stochastic high-order fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 523–528.
- [344] Zhijie Liu, Fuxing Yao, Guangren Duan, and He Kong, "A fully actuated system approach to control of the 3D cubli: Theory and experiments," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1066–1071.
- [345] Lingling Lv, Bo Hou, Shijie Zhang, and Quanzhen Huang, "Active disturbance rejection control of satellite attitude based on high-order fully actuated system approach," in 2024 IEEE 13th Data Driven Control and Learning Systems Conference (DDCLS). IEEE, 2024, pp. 2158–2163.
- [346] Lingling Lv, Delong Yang, Shen Su, Quanzhen Huang, Zhiheng Li, and Yu Wu, "Active disturbance rejection control of hydraulic turbine based on fully actuated system theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 685–690.
- [347] Weijie Ren, Guang-Ren Duan, and He Kong, "A fully actuated system approach to interval observer design with applications in fault detection," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 571–576.
- [348] Congcong Tian, Jie Mei, and Guangfu Ma, "A high-order fully actuated consensus approach for strict-feedback nonlinear multi-agent systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 506–510.
- [349] Haohan Zhao, Yahui Zhang, and Xiaohong Jiao, "Adaptive control for active suspension system based on the high-order fully actuated system theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 42–47.
- [350] Yunqi Chen and Guangren Duan, "Adaptive tracking control for random high-order fully actuated systems with unknown drift nonlinearity and diffusion coefficient," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 158–164.
- [351] Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "Adaptive tracking control for state-constrained fully actuated systems and its application to overhead cranes," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1046–1049.
- [352] Zhaoyang Li, Zhongyu Chen, Yichun Niu, and Li Sheng, "Adaptive dynamic event-triggered tracking control for uncertain high-order fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 25–30.
- [353] Lin Liu and Guangren Duan, "Adaptive control for fully actuated systems with input quantization," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 92–96.

- [354] Wen-Nian Qi, Ai-Guo Wu, and Jie Zhang, "Adaptive neural-networks control for uncertain second-order fully actuated strict-feedback systems without over-parametrization," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 195–199.
- [355] Junkai Wang, Xiao-Dong Li, and Xuefang Li, "Adaptive iterative learning control for high-order fully actuated nonlinear systems with parametric uncertainties," in 2024 IEEE 13th Data Driven Control and Learning Systems Conference (DDCLS). IEEE, 2024, pp. 953–959.
- [356] Ping Wang and Guangren Duan, "Adaptive fixed-time control for high-order fully actuated system with input saturation," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 986–992.
- [357] Xueqi Wu and Wei Sun, "Adaptive stabilization control for fully actuated systems with unknown measurement sensitivity," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 7–12.
- [358] Yueyao Ye, Debao Fan, and Xianfu Zhang, "Adaptive neural network control for uncertain strict-feedback nonlinear systems with unknown control coefficients: A fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 915–920.
- [359] Sen Zheng and Yang Cui, "Adaptive fuzzy fault-tolerant control of high-order nonlinear time-varying delay systems with dead-zone inputs: A fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 127–133.
- [360] Guang-Quan Duan and Guo-Ping Liu, "Attitude and orbit control of combined spacecraft with unknown inertial parameters via the fully actuated system approach," in 2024 43rd Chinese Control Conference (CCC). IEEE, 2024, pp. 2486–2491.
- [361] Huaiyuan Jiang, Xuefei Yang, Chuanchuan Xu, and Kangkang Zhang, "Bias-policy iteration based adaptive dynamic programming for linear fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1140–1145.
- [362] Ganxin Li, Fuxing Yao, He Kong, Yahui Zhang, Jinwu Gao, Yunfeng Hu, Xiaohong Jiao, and Guilin Wen, "Control of proton exchange membrane fuel cell intake system: A high-order fully actuated system approach," in 2024 43rd Chinese Control Conference (CCC). IEEE, 2024, pp. 889–895.
- [363] Xinyu Liu, Mingrui Hao, Yu Fan, Yan Zhen, and Wendi Sun, "Aircraft middle and final stage attitude control on fully actuated system theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 938–944.
- [364] Ricardo Rosales Martinez, Hannibal Paul, and Kazuhiro Shimonomura, "Control framework for multirotors with additional horizontal thrusters," in 2024 IEEE International Conference on Advanced Intelligent Mechatronics (AIM). IEEE, 2024, pp. 106–113.
- [365] Yan-Qiao Wei, Yan-Hai Wang, Da-Yan Liu, and Chang-Chun Hua, "Algebraic differentiator based fractional order controller by high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 957–961.

- [366] Xin-Rong Yang and Zefeng Zhong, "Consensus analysis and control for second-order fully actuated multi-agent systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 147–151.
- [367] Da-Wei Zhang and Guo-Ping Liu, "An improved predictive tracking control of discrete-time high-order fully actuated systems," in 2024 43rd Chinese Control Conference (CCC). IEEE, 2024, pp. 5285–5290.
- [368] Yu Zhang, Fanwei Meng, and Bin Li, "An FASA based fixed-time sliding mode control for robotic manipulator," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1029–1034.
- [369] Yuhan Zhang, Yingjing Shi, and Rui Li, "Bearing-only based circumnavigation for multi-agent system of moving-target on fully-actually system approach," in 2024 7th International Symposium on Autonomous Systems (ISAS). IEEE, 2024, pp. 1–6.
- [370] Xiaoran Dai, Guo-Ping Liu, Wenshan Hu, Zhongcheng Lei, Hong Zhou, and Jun Zhang, "Distributed secondary control for DC microgrids leveraging a fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1283–1287.
- [371] Yuxin Feng, Zhiqiang Li, Yang Liu, Zhaoshui He, and Hongyi Li, "Differentiator-based adaptive H∞ tracking control of fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 680–684.
- [372] Cheng Fu, Zicheng Zhang, Le Chang, and Guanguan Zhang, "DC-link voltage control of three-phase AC/DC converters with current constraints," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA). IEEE, 2024, pp. 993–997.
- [373] Jiao Hu, Hao Yang, Yuhang Xu, and Bin Jiang, "Differential game-based fault-tolerant formation control for fixed-wing uavs under the fully actuated system framework," in *International Conference on Guidance, Navigation and Control.* Springer, 2024, pp. 76–87.
- [374] Ao Qin, Zhe Gao, and Jun-e Feng, "Coordinated control for incomplete controllable systems over finite fields," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 13–18.
- [375] Jiange Wang, Tong Zhang, Xiaolei Li, Yanqiao Wei, and Yuzhong Wang, "Coordination control of networked robotic systems via a fully-actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 349–354.
- [376] Wenyan Ye and Ping Zhang, "Data-driven adaptive control for unknown underactuated Euler-Lagrange systems," in 2024 European Control Conference (ECC), 2024, pp. 2405–2410.
- [377] Junning Zhang, Longfei Jia, Yifan Ma, Zhiyuan Yu, and Shoujun Zhao, "Disturbance observer based modeling of dexterous finger high-order fully actuated," in *Chinese Intelligent Systems Conference*. Springer, 2024, pp. 422–430.
- [378] Xiaoshuang Zhou, Yana Yang, Junpeng Li, and Guopin Liu, "Disturbance observer-based nonlinear control for underactuated bridge cranes: High-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 926–931.
- [379] Fuxing Zhu, Yue Zhao, Zhuang Liu, Fei Yan, and Jianxing Liu, "Disturbance

- observer-based high-order fully actuated robust control of uncertain robotic systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 713–718.
- [380] Hailong Cui and Guanglei Zhao, "Event-triggered control of high-order fully actuated nonlinear multi-agent systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 359–364.
- [381] Ming Gao, Wenhui Ning, and Zhongcai Zhang, "ESO-based tracking controller of a nonlinear system with disturbance: An FAS approach," in *International Conference on Intelligent Robotics and Applications*. Springer, 2024, pp. 115–129.
- [382] Xiuwei Huang, Peng Yang, Zhen Liu, Li An, and Hao Wang, "Fault-tolerant attitude tracking control of combined spacecraft with actuator saturation based on fully-actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1513–1519.
- [383] Yang Liu and Jiaming Zhang, "Event-triggered tracking control for high-order fully actuated strict-feedback systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 37–41.
- [384] Yanling Liu, Jialong Zhang, Yahui Zhang, Zhao Tan, Yingbing Sun, Haohan Zhao, and Guilin Wen, "ESO-based trajectory tracking control of a 7-DOF manipulator: A high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 951–956.
- [385] Lipeng Wang, Jiang Wu, and Chengqi Pan, "Dynamic modeling and analysis of wafers in near-field acoustic levitation," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1023–1028.
- [386] Deyu Zeng, Limin Wang, and Shouyan Chen, "Fault estimation and fault-tolerant compensation tracking control for autonomous underwater vehicles," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 620–625.
- [387] Lu-Han Zhang, Lou Wang, Cui-Hua Zhang, Chang-Chun Hua, Ying Zhang, and Li Li, "Event-triggered robust control for a class of nonlinear systems with uncertainty: A HOFA system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 31–36.
- [388] Xujie Zhang and Guangren Duan, "Explicit solution to quasi-polynomial matrix right coprime factorization with application in establishment of time-delay fully actuated system," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 86–91.
- [389] Qingyi Zhao and Yang Cui, "Event-triggered fuzzy adaptive fault-tolerant control of high-order nonlinear systems: A fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 134–140.
- [390] Feng Gao, Jiayang Li, Heng Deng, and Guanghui Sun, "Fully actuated control for directional accuracy in multiaxis antennas utilizing sliding mode and STESO observers," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1549–1554.
- [391] Mengtong Gong, Li Sheng, and Donghua Zhou, "Fault-tolerant control for uncertain

- sub-fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 540–545.
- [392] Kerun Liu, Zhenyu Feng, Huayi Li, and Ming Liu, "Fault-tolerant control for spacecraft attitude maneuver under constraints based on the fully-actuated system," in 2024 International Conference on Control, Automation and Diagnosis (ICCAD). IEEE, 2024, pp. 1–6.
- [393] Kerun Liu, Ming Liu, and Huayi Li, "Fixed-time attitude control and active vibration suppression for flexible spacecraft based on the fully-actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1394–1399.
- [394] Weizhen Liu, Guangren Duan, Guangtai Tian, Mehdi Golestani, and He Kong, "Finite-time command filtered backstepping design for high-order fully actuated strict-feedback systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 103–109.
- [395] Yang Liu and Jiaming Zhang, "Fault-tolerant leader-following consensus control for fully actuated multi-agent systems based on prescribed-time observer," in *Chinese Intelligent Systems Conference*. Springer, 2024, pp. 302–310.
- [396] Zhibin Mo, Wanquan Liu, Yu-Yao Wu, and Hui-Jie Sun, "Fully actuated behavioral control for multiple omnidirectional mobile robots system with uncertain dynamics," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 189–194.
- [397] Jianfeng Xu, Yuhang Xu, and Bin Jiang, "Fault-tolerant pursuit-evasion games for quadrotor helicopters based on a fully-actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 583–588.
- [398] Guanglei Zhao, Lu Luo, Peng Wang, and Changchun Hua, "Formation control of under-actuated multi-robot vehicle systems based on high-order fully actuated systems approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 932–937.
- [399] Huanhuan Zhao, Songheng Mao, Fan Jia, Yuan Fan, and Yuchao Guo, "Fully actuated system approach to attitude stabilization control of robot manipulator," in 2024 36th Chinese Control and Decision Conference (CCDC). IEEE, 2024, pp. 3011–3016.
- [400] Ping Li, Guang-Ren Duan, Bi Zhang, and Yuzhong Wang, "High-order fully actuated approach for output position control of two mass systems based on extended state observer," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1193–1198.
- [401] Xiaolei Li, Feilong Tang, Jiawei Liu, and Zhihua Xiang, "Fully-actuated sliding mode synchronization control for H-type linear motor system," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1078–1083.
- [402] Kerun Liu, Shiyi Li, and Ming Liu, "Fully-actuated system approach-based spacecraft attitude control under tube-based framework," in 2024 7th International Conference on Mechatronics, Robotics and Automation (ICMRA). IEEE, 2024, pp. 26–32.
- [403] Shi Lu, Konstantinos Tsakalis, and Yan Chen, "High-order fully actuated system approach for a 3-DOF quadrotor control based on extended state observers," in 2024 3rd

- Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1555–1560.
- [404] Pengju Ning, Changchun Hua, and Hao Li, "Global prescribed-time control fully actuated nonlinear systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 141–146.
- [405] Xiubo Wang and Guangren Duan, "Fully-actuated robust predictive control for cascaded under-actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1370–1375.
- [406] Chengyuan Yan, Jianwei Xia, and Wei Sun, "Fully actuated system approach-based adaptive event-triggered control for nonlinear switched systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 980–985.
- [407] Qing-Hao Zhang and Jun-Guo Lu, "H∞ consensus control for high-order fully actuated multi-agent systems with external disturbances," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1–6.
- [408] Yu Zhang, Guopin Liu, Changchun Hua, and Yana Yang, "Global prescribed performance control for nonlinear interconnected systems: A high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 945–950.
- [409] Xiangxiang Zou, Deshan Meng, Hui-Jie Sun, Yu-Yao Wu, and Lining Tan, "High precision trajectory tracking control for a kind of novel cable-driven space manipulator," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 177–182.
- [410] Qinlong Du, Xin Huo, Dianle Zhou, Kai Zheng, and Rongmei Li, "Intention recognition algorithm for multi-agent systems based on high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1311–1316.
- [411] Qimin Hou, Zhenhuan Wang, Yabin Gao, Hanjun Shang, Jiyuan Kuang, and Zhuang Liu, "Multi-agent clusters flocking control via high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 488–493.
- [412] Shixiang Jia, Yang Jin, Tong Wang, and Jianbin Qiu, "High-order fully-actuated system approach based fault-tolerant attitude tracking control via extended state observer," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1543–1548.
- [413] Zhipeng Jiang and Xianwei Li, "High-order fully-actuated controller design for a dual-quadrotor suspension system," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1568–1573.
- [414] Cesar Limones, Nimrod Vazquez, Claudia Hernandez, Hector Lopez, Ricardo Femat, Jaime Arau, Angel de Castro, and Joaquin Vaquero, "LCL-filtered grid-tied inverter with FCS-MPC based on FAS model," in 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC), 2024, pp. 1–6.
- [415] Yuzhong Wang, Guangren Duan, and Ping Li, "High-order sliding mode control for flexible servo systems using fully actuated system approach," in 2024 3rd Conference on

- Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1061–1065.
- [416] Zheming Wang, Bin Wang, Yuan Zhou, Ming Chen, Bo Chen, and Jiyu Zhang, "Model predictive control for attitude tracking of rehabilitation exoskeleton robots," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1352–1357.
- [417] Yongqiang Xiao, Guangbin Cai, and Mingzhe Hou, "Input saturation control of manipulator based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1526–1531.
- [418] Lin Yang and Yuanlong Li, "Integrated guidance and control design subject to actuator saturation based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 998–1003.
- [419] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Longitudinal active load relief control of launcher based on fully-actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1471–1474.
- [420] Miao Cai, Xiao He, and Donghua Zhou, "Neural-network-based fault-tolerant control for unknown high-order fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 529–533.
- [421] Zhijun Chen, Shiyu Zhang, and Guangren Duan, "Observer-based control for fully actuated systems with time-varying delays: A fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 48–53.
- [422] Yuanpeng Ding, Jun-e Feng, and Yongyuan Yu, "On full-actuation of linear boolean control networks," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 19–24.
- [423] Bowen Hou, Dayi Wang, Tianshu Dong, and Jiongqi Wang, "Obervability analysis for space target sequential-image relative navigation system with fully-actuated system control," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 798–803.
- [424] Hong Jiang and Guangren Duan, "Output tracking based on reduced-order observer for fully actuated systems," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 72–77.
- [425] Qiyang Miao, Jingping Xia, Bin Jiang, and Ke Zhang, "Neural observer-based intelligent fault-tolerant control of multi-helicopters under actuator faults: A fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 565–570.
- [426] Yifan Pei, Shuo Wang, and Fei Yan, "Neural network-based adaptive command filtered backstepping design for uncertain second-order strict-feedback systems," in 2024 6th International Conference on Industrial Artificial Intelligence (IAI). IEEE, 2024, pp. 1–6.
- [427] Fangyi Quan, Junfang Fan, Sixing Zhang, Yi Ji, and Shiwei Chen, "PMSM speed control based on fully actuated systems theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 249–253.
- [428] Xiaoxiang Zhang, Yunhai Geng, and Baolin Wu, "Multi-spacecraft adaptive tracking control with collision avoidance based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp.

- 1406-1411.
- [429] Yuzhuo Zhao and Dan Ma, "Observed state-dependent adaptive control for thermoacoustic instability in aeroengine oscillating combustion with unknown thermal inertia," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 968–973.
- [430] Chunjun Chen, Fan Yang, Yaowen Zhang, and Chaoyue Chen, "Research on lateral fully-actuated semiactive control of high-speed train with built-in bogies," in *Ninth International Conference on Electromechanical Control Technology and Transportation* (ICECTT 2024), vol. 13251. SPIE, 2024, pp. 1064–1070.
- [431] Liyao Hu and Guangren Duan, "Robust bounded-H∞ control for high-order fully actuated systems based on fas approaches," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 674–679.
- [432] Yonghao Ma, Bin Jiang, and Ke Zhang, "Practical prescribed time fault-tolerant tracking control for a quadrotor UAV: A solution based on FASA," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 534–539.
- [433] Cunfu Qin, Xiao Wang, and Ping Zhao, "Robust adaptive control for a class of nonlinear uncertain HOFA systems with actuator attacks," in *2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA)*, 2024, pp. 1101–1106.
- [434] Yuebin Qiu, Shijie Zhang, Xiang Wu, Hui Zhang, and Tianle Yang, "Robotic manipulator control based on disturbance observer: A high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 116–120.
- [435] Fangyi Quan, Junfang Fan, Yi Ji, Sixing Zhang, and Shiwei Chen, "Parameterized design of impact-angle-constraints guidance law based on fully-actuated system theory," in 2024 36th Chinese Control and Decision Conference (CCDC). IEEE, 2024, pp. 2698–2703.
- [436] Guangtai Tian, Guangren Duan, Weizhen Liu, Mehdi Golestani, and He Kong, "Practical prescribed time control for space manipulators based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 152–157.
- [437] Dian Wang, Yunhua Wu, Songjing Ma, and Xun Zeng, "Planned fully actuated attitude control strategy for flexible spacecraft," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1004–1010.
- [438] Lixue Xu, Xiubo Wang, Ping He, and Yan Wang, "Predictive path-following control for tilt-quadrotor uav based on fully-actuated system approaches," in *2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA)*, 2024, pp. 1382–1387.
- [439] Yin Zheng, He Zhang, and Yan Wang, "Predefined time sliding mode attitude tracking control for rigid spacecraft based on fully actuated system method," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1579–1583.
- [440] Kai-Xin Cui and Guang-Ren Duan, "Robust tracking control for a type of combined spacecraft: A discrete-time FAS approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1453–1458.

- [441] Fangyuan Li, Guangxin Liu, Xiaoning Shen, Cheng Li, Xinpo Lin, Yabin Gao, and Jianxing Liu, "Robust control for DC-DC buck converters based on fully actuated system theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 707–712.
- [442] Shiyao Li, Baoqing Yang, Jie Ma, Zixiao Yang, and Bo Zhu, "Robust synchronization control of heterogeneous systems with underactuated and overactuated helicopters," in *International Conference on Guidance, Navigation and Control.* Springer, 2024, pp. 97–108.
- [443] Shunli Li and Guangren Duan, "Robust prescribed-time global control for the elliptical orbital rendezvous system: A fully actuated system approach," in *2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA)*, 2024, pp. 974–979.
- [444] Zijie Lin, Baolin Wu, Junyu Chen, and Zhaobo Sun, "Safety-critical control in multi-spacecraft specific tracking of rotating target based on fully actuated system models," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1465–1470.
- [445] Zhihao Liu and Peng Li, "Robust multi-mobile robot formation control: A fully actuated system control approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1011–1016.
- [446] Tingrui Wang, Zifan Gao, and Dawei Zhang, "Sampled-data H∞ control for high-order fully actuated systems based on a local lipschitz condition," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 691–694.
- [447] Yi Heng Yang, Kai Zhang, Zhi Hua Chen, and Bin Li, "Robust model predictive control for trajectory tracking of robotic manipulators based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1388–1393.
- [448] Shiyu Zhang and Guangren Duan, "Robust control of single-link flexible-joint manipulators with perturbed inertia based on fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 668–673.
- [449] Teng Zhang, Chong Tan, and Yanjiang Li, "Robust group formation tracking control for nonlinear multiagent systems," in 2024 36th Chinese Control and Decision Conference (CCDC), 2024, pp. 1876–1881.
- [450] Gang Li, Xin Ma, Jing Li, and Yibin Li, "Sliding mode control for tower crane with double spherical pendulum and variable cable length," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1017–1022.
- [451] Rongmei Li, Xin Huo, Aijing Wu, and Weizhen Liu, "Tracking control of motion control systems with disturbance observer based on high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1199–1203.
- [452] Yankai Li, Jinyu Xu, Xiaohui Xue, Dongping Li, Yingmin Yi, and Shuyi Shao, "Sliding mode control for helicopter systems based on fully actuated method," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1498–1502.
- [453] Yu Miao, Hou Mingzhe, and Tan Feng, "Sliding mode based incremental tracking

- control of high-order fully actuated systems with application," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1055–1060.
- [454] Qi Pan, Xiuhui Peng, and Xueyan Wang, "Stabilization control of second-order nonholonomic system with high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1072–1077.
- [455] Yankui Shi, Runze Wang, Ruizhi Tong, and Yi Zeng, "Tracking control and obstacle avoidance of quad-rotor UAV based on high-order fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 695–700.
- [456] Da-Wei Zhang and Guo-Ping Liu, "Sliding-mode disturbance observer-based HOFA predictive control of spacecraft flying-around," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA). IEEE, 2024, pp. 1459–1464.
- [457] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Spacecraft robust pose control for contactless detumbling of high-spinning space debris via fully-actuated system approach," in *International Conference on Guidance, Navigation and Control*. Springer, 2024, pp. 393–399.
- [458] Zeyi Zhang, Hao Jiang, and Dong Shen, "Tracking ability of high-order fully actuated iterative learning control," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1095–1100.
- [459] Die Zou, Likun Huang, Wei Wang, Mengying Lin, and Zixin Huang, "Time-optimal and jerk-continuous trajectory planning and tracking control for 6-DOF manipulator based on high-order fully actuated system control theory," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 222–225.
- [460] Zijing Li, Jing Zhu, Xiangping Zhai, and Hongwei Zhang, "Tracking control of unmanned surface vessels based on fully actuated system approaches," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 54–59.
- [461] Fu-Zheng Xiao and Li-Qun Chen, "Unwinding-free attitude control via fully actuated system approach," in 2024 3rd Conference on Fully Actuated System Theory and Applications (FASTA), 2024, pp. 1412–1417.

2025

- [462] Cheng He and Ruiyun Qi, "Distributed consensus control of nonlinear multi-agent systems with unknown parameters: A high-order fully actuated system approach," in *Advances in Guidance, Navigation and Control: Proceedings of 2024 International Conference on Guidance, Navigation and Control (Volume 6)*, vol. 1342. Springer Nature, 2025, p. 457.
- [463] Fangyi Quan, Junfang Fan, and Wentao Tang, "Munition roll stabilization control methodbased on fully-actuated systems theory," in *Advances in Guidance, Navigation and Control: Proceedings of 2024 International Conference on Guidance, Navigation and Control (Volume 12)*, vol. 1348. Springer Nature, 2025, p. 286.
- [464] Caisheng Wei, Zeyang Yin, Xia Wu, Zheng Wang, and Xin Ning, "Extended state observer-based prescribed performance control with velocity information loss," in

- Fundamentals and Aerospace Applications of Prescribed Performance Control. Springer, 2025, pp. 57–84.
- [465] Qi Wu, Chengyuan Hua, Caoyuan Gu, Yao-Wei Wang, Wen-An Zhang, and Shigeyuki Takagi, "Contour tracking control for high-order fully actuated multi-axis motion control systems," in 2025 IEEE International Conference on Industrial Technology (ICIT). IEEE, 2025, pp. 1–6.
- [466] Dufei Zhang, Yao-Wei Wang, Caoyuan Gu, Yu Jia, Qi Wu, and Xiang Wu, "High-performance synchronization control of multi-axis motion system based on fully-actuated system approach," in 2025 IEEE International Conference on Industrial Technology (ICIT), 2025, pp. 1–6.
- [467] Feng Zhang, Haipeng Chen, and Shengbao Wu, "Detumbling of high-spinning space debris via fully-actuated system approach," in *Advances in Guidance, Navigation and Control: Proceedings of 2024 International Conference on Guidance, Navigation and Control (Volume 16)*, vol. 1352. Springer Nature, 2025, p. 393.

三、中文刊物论文

- [468] 段广仁, "高阶系统方法-I. 全驱系统与参数化设计," *自动化学报*, vol. 46, no. 7, pp. 1333–1345, Jul. 2020.
- [469] 段广仁, "高阶系统方法-II. 能控性与全驱性," *自动化学报*, vol. 46, no. 8, pp. 1571–1581, Aug. 2020.
- [470] 段广仁, "高阶系统方法-III. 能观性与观测器设计," *自动化学报*, vol. 46, no. 9, pp. 1885–1895, Aug. 2020.
- [471] 刘国平, "具有时变通信受限非线性信息物理系统的网络化预测控制," *控制理论与应用*, vol. 39, no. 1, pp. 145–153, 2022.
- [472] 刘高旗, 李彬, 宁召柯, 张凯, 史明明, "基于控制参数化方法的全驱系统控制器参数优化," in *中国自动化大会*, Nov. 25-27, 厦门, 中国, 2022, pp. 200–204.
- [473] 蔺凤琴, 刘文可, 于鹏, "基于全驱系统方法的冷带轧机压下系统自适应同步控制," *系统科学与数学*, vol. 43, no. 11, pp. 2758–2772, 2023.
- [474] 虞兆翀, 姜玉奇, 王茜, "具有外部干扰与执行器饱和的机械臂系统的全驱系统方法," in 2023 2nd Conference on Fully Actuated System Theory Applications (CFASTA), 2023, pp. 94–99.
- [475] 周逸蓉, 齐瑞云, "基于高阶全驱系统理论的高速飞行器自适应容错跟踪控制," in 2023 2nd Conference on Fully Actuated System Theory Applications (CFASTA), 2023, pp. 461-467.
- [476] 庄宇韬, "导弹编队控制的参数化方法," in 2023 2nd Conference on Fully Actuated System Theory Applications (CFASTA), 2023, pp. 270–274.
- [477] 段广仁, "亚严反馈系统镇定的全驱系统方法," 航空学报, vol. 45, no. 1, 2024.
- [478] 蔡光斌, 肖永强, 胡昌华, 杨小冈, 凡永华, "基于全驱系统方法的高阶严反馈系统时变输出约束控制," 自动化学报, vol. 50, no. 2, pp. 372–385, 2024.
- [479] 崔凯鑫, 段广仁, "基于干扰观测器的一类组合航天器高阶全驱抗干扰控制," *航空 学报*, vol. 45, no. 1, 2024.
- [480] 段广全, 刘国平, "基于全驱系统方法的组合航天器位姿自适应预设性能控制," *航空学报*, vol. 45, no. 1, 2024.

- [481] 方乐言, 蒙晗, 侯明哲, "带有参数精确估计的迭代学习滑模控制及应用," *航空学* 报, vol. 45, no. 1, 2024.
- [482] 段超, 邵小东, 胡庆雷, 吴淮宁, "基于横截函数的欠驱动航天器姿态跟踪方法," 航空学报, vol. 45, no. 1, pp. 36-46, 2024.
- [483] 肖冰, 张海朝, "航天器姿态稳定强化学习鲁棒最优控制方法," *航空学报*, vol. 45, no. 1, pp. 58–72, 2024.
- [484] 张清瑞, 刘赟韵, 孙慧杰, 朱波, "固定翼无人机紧密编队的鲁棒协同跟踪控制," *航空学报*, vol. 45, no. 1, pp. 110–126, 2024.
- [485] 杨梓霄, 李世尧, 魏晨, 李湛, 朱波, "基于低阶干扰估计器的欠驱动三自由度直升机鲁棒控制," *航空学报*, vol. 45, no. 1, pp. 150–165, 2024.
- [486] 郑雪梅, 郅济荣, 张星宇, 李其恩, "全驱系统理论在 LCL 并网逆变器中的控制及应用," *长春工业大学学报*, vol. 45, no. 2, pp. 125–129, 2024.
- [487] 张亚辉,李淦鑫,刘艳玲,胡云峰,"基于高阶全驱的质子交换膜燃料电池阴极进气系统控制方法," *吉林大学学报(工学版)*, pp. 1–10, 2024.
- [488] 刘明, 范睿超, 邱实, 曹喜滨, "基于全驱系统理论的航天器姿轨预设性能控制," *航空学报*, vol. 45, no. 1, 2024.
- [489] 鲁明, 陈雪芹, 吴凡, 曹喜滨, "基于二阶全驱系统的航天器姿态避障控制," *航空 学报*, vol. 45, no. 1, 2024.
- [490] 宁文慧, 高铭, 吕荣平, 张中才, "基于扩张状态观测器的非完整系统的镇定控制: 一种全驱系统方法," *指挥与控制学报*, vol. 10, no. 5, pp. 620–627, 2024.
- [491] 王典, 吴云华, 岳程斐, 马松靖, "输入受限的挠性航天器全驱姿态饱和控制," *自 动化学报*, vol. 50, pp. 1–11, 2024.
- [492] 陈洋, 张丹丹, 章智凯, 张恒, "不确定严格反馈系统的无反步预设性能自适应控制: 一种全驱系统方法的设计," *信息与控制*, vol. 53, no. 6, pp. 774–782, 2024.
- [493] 殷泽阳, 邢友朋, 韩飞, 魏才盛, 廖宇新, "编队航天器协同绕飞非合作目标的全驱 预设性能控制," *航空学报*, vol. 45, no. 1, p. 628904, 2024.
- [494] 张大蔚, 刘国平, "时变通信约束下航天器绕飞的高阶全驱预测控制方法," *航空学* 报, vol. 45, no. 1, 2024.
- [495] 张宏岩, 王伟, 陈仕伟, 纪毅, 刘佳琪, "基于全驱系统方法的制导控制一体化设计," *航空学报*, vol. 45, no. 1, 2024.
- [496] 王立敏, 邹涛, 段广仁, 高福荣, "基于高阶全驱系统的工业过程模型预测容错跟 踪控制," in 第35 届中国过程控制会议论文集, 2024, p. 656.
- [497] 王瑶为, 顾曹源, 吴麒, 吴祥, "基于全驱系统方法的过程系统解耦反馈最优控制," in 2024 中国自动化大会论文集, 2024, pp. 533–536.
- [498] 周逸蓉, 齐瑞云, "基于全驱系统理论的高超声速飞行器容错跟踪控制器设计," in 2024 3rd Conference on Fully Actuated System Theory Applications (FASTA), 2024, pp. 558–564.
- [499] 王秀博, 段广仁, "带有输入饱和的非线性全驱系统级联预测控制," *控制理论与应用*, 2025, early access, doi: 10.7641/CTA.2024.40297.
- [500] 王鹏, 钱承, 张柳柳, 华长春, "基于全驱系统方法的 AUV 鲁棒自适应轨迹跟踪控制," *控制与决策*, vol. 40, no. 1, pp. 285–291, 2025.
- [501] 吴雨瑶, 李雪芳, 刘万泉, "全驱刚体航天器的预定时间姿态跟踪控制," *控制与决策*, vol. 40, no. 2, pp. 469–478, 2025.
- [502] 吴振龙, 李林, 刘艳红, "基于全驱控制方法的农机路径跟踪控制," 郑州大学学报

(工学版), 2025, early access, doi:10.13705/j.issn.1671-6833.2025.04.019.

第二部分:全驱系统方法应用性期刊论文(135篇)

2022年: [1-16]

2023年: [17-38]

2024年: [39-96]

2025年: [97-135]

注:标有"*"号的论文为带有实验验证的文章。

- [1]. Liangming Chen, Zhiyun Lin, Hector Garcia de Marina, Zhiyong Sun, and Mir Feroskhan, "Maneuvering Angle Rigid Formations With Global Convergence Guarantees," *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 8, pp. 1464-1475, 2022.
- [2]. Rui-Qi Dong, Ai-Guo Wu, Ying Zhang, Guang-Ren Duan, and Bin Li, "Anti-unwinding terminal sliding mode attitude tracking control for rigid spacecraft," *Automatica*, vol. 145, p. 10, Art. no. 110567, 2022.
- [3]. Guangren Duan, "High-order fully actuated system approaches: Part VIII. Optimal control with application in spacecraft attitude stabilisation," *International Journal of Systems Science*, vol. 53, no. 1, pp. 54-73, 2022.
- [4]. *Guangquan Duan and Guoping Liu, "Attitude and orbit optimal control of combined spacecraft via a fully-actuated system approach," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 623-640, 2022.
- [5]. Gaoqi Liu, Kai Zhang, and Bin Li, "Fully-actuated system approach based optimal attitude tracking control of rigid spacecraft with actuator saturation," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 688-702, 2022.
- [6]. Tianyi Luo, Ming Liu, Haotian Zhao, Guangren Duan, and Xibin Cao, "Data-driven fault monitoring for spacecraft control moment gyro with slice residual attention network," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 359, no. 16, pp. 9313-9333, 2022.
- [7]. Hao Sun, Ling Huang, and Liang He, "Research on the trajectory tracking control of a 6-DOF manipulator based on fully-actuated system models," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 641-659, 2022.
- [8]. Fuzheng Xiao and Liqun Chen, "Attitude control of spherical liquid-filled spacecraft based on high-order fully actuated system approaches," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 471-480, 2022.
- [9]. *Dawei Zhang, Guoping Liu, and Lei Cao, "Proportional integral predictive control of high-order fully actuated networked multiagent systems with communication delays," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 2, pp.

- 801-812, 2022.
- [10]. *Dawei Zhang, Guoping Liu, and Lei Cao, "Coordinated control of high-order fully actuated multiagent systems and its application: A predictive control strategy," *IEEE/ASME Transactions on Mechatronics*, vol. 27, no. 6, pp. 4362-4372, 2022.
- [11].*Dawei Zhang, Guoping Liu, and Lei Cao, "Constrained cooperative control for high-order fully actuated multiagent systems with application to air-bearing spacecraft simulators," *IEEE/ASME Transactions on Mechatronics*, vol. 28, no. 3, pp. 1570-1581, 2022.
- [12]. *Kai Zhang, Bin Zhou, Huai-Yuan Jiang, Guo-Ping Liu, and Guang-Ren Duan, "Practical Prescribed-Time Sampled-Data Control of Linear Systems With Applications to the Air-Bearing Testbed," *IEEE Transactions on Industrial Electronics*, vol. 69, no. 6, pp. 6152-6161, 2022.
- [13]. Yinyan Zhang, Shuai Li, and Jian Weng, "Learning and Near-Optimal Control of Underactuated Surface Vessels With Periodic Disturbances," *IEEE Transactions on Cybernetics*, vol. 52, no. 8, pp. 7453-7463, 2022.
- [14]. Qin Zhao and GuangRen Duan, "Fully actuated system approach for 6DOF spacecraft control based on extended state observer," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 604-622, 2022.
- [15]. Tianyi Zhao and Guang-Ren Duan, "Fully actuated system approach to attitude control of flexible spacecraft with nonlinear time-varying inertia," *Science China-Information Sciences*, vol. 65, no. 11, Art. no. 212201, 2022.
- [16]. Yuzhuo Zhao, Dan Ma, and Hongwei Ma, "Adaptive neural network control of thermoacoustic instability in Rijke tube: A fully actuated system approach," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 586-603, 2022.
- [17]. Shiwei Chen, Wei Wang, Junfang Fan, and Yi Ji, "Impact angle constraint guidance law using fully-actuated system approach," *Aerospace Science and Technology*, vol. 136, Art. no. 108220, 2023.
- [18]. Rui-Qi Dong, Ai-Guo Wu, Ying Zhang, Guang-Ren Duan, and Jing Huang, "Antiunwinding Sliding Mode Control for Rigid Spacecraft Based on Modified Rodrigues Parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 3, pp. 2579-2592, 2023.
- [19]. Zifan Gao, Dawei Zhang, and Shuqian Zhu, "Network-induced asynchronous fuzzy control for vehicle steering using switching event-triggered communication mechanism," *IEEE Transactions on Intelligent Vehicles*, vol. 8, no. 11, pp. 4559-4571, 2023.
- [20]. *Erlong Kang, Yang Liu, and Hong Qiao, "Sliding mode-based adaptive tube model predictive control for robotic manipulators with model uncertainty and state constraints," *Control Theory Technol.*, vol. 21, no. 3, pp. 334-351, 2023.
- [21]. *Ping Li and Guangren Duan, "High-order fully actuated control approaches of flexible servo systems based on singular perturbation theory," *IEEE/ASME Transactions on Mechatronics*, vol. 28, no. 6, pp. 3386-3397, 2023.
- [22]. Fengqin Lin, Wenke Liu, and Peng Yu, "Adaptive synchronization control of pressing down system of cold strip rolling mill based on fully actuated system method," *Journal of Systems Science and Mathematical Sciences*, vol. 43, no. 11, pp. 2758-2772, 2023.

- [23]. Gaoqi Liu, Bin Li, and Guangren Duan, "An optimal FASA approach for UAV trajectory tracking control," *Guidance, Navigation and Control*, vol. 03, no. 03, 2023.
- [24]. Ming Liu, Qiuhong Liu, Lixian Zhang, Guangren Duan, and Xibin Cao, "Adaptive dynamic programming-based fault-tolerant attitude control for flexible spacecraft with limited wireless resources," *Science China-Information Sciences*, vol. 66, no. 10, p. 16, Art. no. 202201, 2023.
- [25]. *Ming Liu, Tianyi Luo, Lixian Zhang, Xibin Cao, and Guangren Duan, "An Adjustable Feature-Weighted Bayesian Model for Hybrid Satellite Telemetry Variables Anomaly Detection Under Multioperating Conditions," *IEEE Transactions on Instrumentation and Measurement*, vol. 72, p. 14, Art. no. 3536014, 2023.
- [26]. Shi Lu, Konstantinos Tsakalis, and Yan Chen, "Development and application of a novel high-order fully actuated system approach-part I: 3-DOF quadrotor control," *IEEE Control Systems Letters*, vol. 7, pp. 1177-1182, 2023.
- [27]. Yonghao Ma, Ke Zhang, and Bin Jiang, "Prescribed-time fault-tolerant control for fully actuated heterogeneous multiagent systems: A hierarchical design approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 5, pp. 6624-6636, 2023.
- [28]. Kai Peng, Hongxia Wang, Huanshui Zhang, Zhaorong Zhang, and Fan Yang, "Multivariable decoupling control of civil turbofan engines based on fully actuated system approach," *Journal of Systems Science & Complexity*, vol. 36, no. 3, pp. 947-959, 2023.
- [29]. Guangtai Tian and Guangren Duan, "Robust model reference tracking for uncertain second-order nonlinear systems with application to robot manipulator," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 3, pp. 1750-1771, 2023.
- [30]. Xiubo Wang and Guangren Duan, "High-order fully actuated system approaches: Model predictive control with applications to under-actuated systems," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 360, no. 10, pp. 6953-6975, 2023.
- [31]. Fu-Zheng Xiao and Li-Qun Chen, "Fully actuated systems in terms of quaternions for spacecraft attitude control," *ACTA ASTRONAUTICA*, vol. 209, pp. 1-5, 2023.
- [32]. *Dawei Zhang and Guoping Liu, "Predictive sliding-mode control of networked high-order fully actuated systems under random deception attacks," *Science China-Information Sciences*, vol. 66, no. 9, Art. no. 190204, 2023.
- [33]. *Dawei Zhang and Guoping Liu, "Predictive control for networked high-order fully actuated systems subject to communication delays and external disturbances," *ISA Transactions*, vol. 139, pp. 425-435, 2023.
- [34]. *Dawei Zhang, Guoping Liu, and Lei Cao, "Predictive control of discrete-time high-order fully actuated systems with application to air-bearing spacecraft simulator," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 360, no. 8, pp. 5910-5927, 2023.
- [35]. Feng Zhang and Guangren Duan, "Coupled Dynamics and Integrated Control for Position and Attitude Motions of Spacecraft: A Survey," *IEEE/CAA Journal of Automatica Sinica*, vol. 10, no. 12, pp. 2187-2208, 2023.
- [36]. Kang-Kang Zhang, Bin Zhou, Huaiyuan Jiang, and Guang-Ren Duan, "Finite-Time

- Control of a Class of Nonlinear Underactuated Systems With Application to Underactuated Axisymmetric Spacecraft," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 5, pp. 7061-7071, 2023.
- [37]. Qin Zhao and Guangren Duan, "Prescribed performance tracking control for spacecraft proximity operations with inertia property identification," *Aerospace Science and Technology*, vol. 141, p. 17, Art. no. 108555, 2023.
- [38]. Tianyi Zhao and Guangren Duan, "Parametric Design for Observer-based P2I Controller with Applications to High-accuracy Tracking Control in Space Optical Communication," *International Journal of Control Automation and Systems*, vol. 21, no. 2, pp. 452-463, 2023.
- [39]. *Fei Chang, Jia Pei Kang, Sha Ri Na Huang, and Guo Liang Zhao, "Quadrotors' double-loop controller design with tensor product model transformation and partial fully actuated method," *ISA Transactions*, vol. 150, pp. 181-197, 2024.
- [40]. *Liangming Chen, Jiaping Xiao, Yumin Zheng, N. Arun Alagappan, and Mir Feroskhan, "Design, Modeling, and Control of a Coaxial Drone," *IEEE Transactions on Robotics*, vol. 40, pp. 1650-1663, 2024.
- [41]. Kaixin Cui and Guangren Duan, "High-order fully actuated anti-disturbance control for a type of combined spacecraft based on disturbance observer," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 73-85, 2024.
- [42]. *Kaixin Cui, Guangren Duan, and Mingzhe Hou, "Discrete-time model reference tracking control for a class of combined spacecraft: A high-order fully actuated system approach," *IEEE Transactions on Automation Science and Engineering*, vol. 21, no. 4, pp. 6966-6977, 2024.
- [43]. *Kaixin Cui, Guangren Duan, Dawei Zhang, and Dake Gu, "Discrete-time high-order fully actuated adaptive stabilization control for a type of combined spacecraft with unknown parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 3, pp. 3379-3389, 2024.
- [44]. Chao Duan, Xiaodong Shao, Qinglei Hu, and Huaining Wu, "Attitude tracking of underactuated spacecraft based on transverse function," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 36-46, 2024.
- [45]. Guangren Duan, "Stabilisation of four types of underactuated systems: A FAS approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2421-2441, 2024.
- [46]. *Guangquan Duan and Guoping Liu, "Adaptive prescribed control of position and attitude of combined spacecraft based on fully actuated system approach," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 127-136, 2024.
- [47]. Leyan Fang, Han Meng, and Mingzhe Hou, "Iterative learning sliding mode control with precise parameter estimation and its application," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 166-180+3, 2024.
- [48]. *Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "Adaptive Tracking Controller for FAS With State Constraints and its Application to Underactuated Overhead Cranes: Design and Experiment," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 6, pp. 6329 6339, 2024.
- [49]. Cheng Li, Yue Zhao, Zhuang Liu, Xiaoning Shen, Yabin Gao, and Jianxing Liu,

- "Prescribed Performance Control for PEM Fuel Cell Air Supply System Based on Fully Actuated Approach With Fixed Regulation Time," *International Journal of Circuit Theory and Applications*, 2024. doi: 10.1002/cta.4341.
- [50]. Mingsong Li, Ke Zhang, Yonghao Ma, and Bin Jiang, "Prescribed-time fault-tolerant control for the formation of quadrotors based on fully-actuated system approaches," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2541-2555, 2024.
- [51]. *Ping Li, Guangren Duan, Bi Zhang, and Yuzhong Wang, "Event-Triggered Control for Servo Motor Systems Based on Fully Actuated System Approach and Dynamical Compensator," *IEEE Transactions on Industrial Electronics*, 2024. doi: 10.1109/tie.2024.3515273.
- [52]. *Ping. Li and Guang-Ren Duan, "High-Order Fully Actuated Control Approach for Servo Systems Based on Dynamical Compensator and Extended State Observer," *IEEE/ASME Transactions on Mechatronics*, vol. 29, no. 5, pp. 3717-3726, 2024.
- [53]. Shiyi Li, Kerun Liu, Ming Liu, and Xibin Cao, "Neuro-adaptive prescribed performance control for spacecraft rendezvous based on the fully-actuated system approach," *IET Control Theory and Applications*, vol. 18, no. 14, pp. 1868-1876, 2024.
- [54]. Zhao-Yan Li, Yu Liu, and Bin Zhou, "Differential Flatness of Single-Input Commensurate Delay Systems With Applications to Trajectory Planning, Tracking, and Transformation to Fully Actuated Systems," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 71, no. 8, pp. 3799-3809, 2024.
- [55]. Ming Liu, Ruichao Fan, Shi Qiu, and Xibin Cao, "Spacecraft attitude-orbit prescribed performance control based on fully actuated system approach," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 20-35, 2024.
- [56]. Qingyi Liu, Ke Zhang, Bin Jiang, and Jinfa Xu, "Prescribed-Time Fault-Tolerant Formation Control for Collision-Free Unmanned Helicopters: A High-Order Fully Actuated System Approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 4, pp. 4715-4727, 2024.
- [57]. Quanzhi Liu, Liu Zhang, Bo Sun, Yang Xiao, and Guowei Fan, "Fixed-Time Disturbance Observer-Based Attitude Prescribed Performance Predictive Control for Flexible Spacecraft," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 3, pp. 3209-3220, 2024.
- [58]. Ruixia Liu, Ming Liu, Guangren Duan, and Xibin Cao, "Robust adaptive smooth variable structure Kalman filter for spacecraft attitude estimation," *Aerospace Science and Technology*, vol. 144, p. 10, Art. no. 108784, 2024.
- [59]. Ming Lu, Xueqin Chen, Fan Wu, and Xibin Cao, "Attitude maneuver control of spacecraft based on second-order fully actuated system under attitude constraints," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 101-109, 2024.
- [60]. Yuan Lu, Ke Zhang, and Bin Jiang, "Fully Actuated System Approach Based Prescribed-Time Fault-Tolerant Formation Control for Unmanned Helicopters Under Fixed and Switching Topologies," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 71, no. 11, pp. 5249-5260, 2024.
- [61]. *Tianyi Luo, Ming Liu, Peng Shi, Guangren Duan, and Xibin Cao, "A Hybrid Data Preprocessing-Based Hierarchical Attention BiLSTM Network for Remaining Useful Life Prediction of Spacecraft Lithium-Ion Batteries," *IEEE Transactions on Neural*

- Networks and Learning Systems, vol. 35, no. 12, pp. 18076-18089, 2024.
- [62]. Yonghao Ma, Ke Zhang, and Bin Jiang, "Neuroadaptive Cooperative Fault-Tolerant Control of Heterogeneous Multiagent Systems Based on Fully Actuated System Approaches," *IEEE Transactions on Cybernetics*, vol. 54, no. 8, pp. 4581-4592, 2024.
- [63]. Qiyang Miao, Ke Zhang, and Bin Jinag, "Incremental fully actuated system approach-based prescribed-time fault-tolerant formation control of helicopters under multiple faults," *Aerospace Science and Technology*, vol. 151, Art. no. 109334, 2024.
- [64]. Guangtai Tian, Bin Li, Qin Zhao, and Guangren Duan, "High-precision trajectory tracking control for free-flying space manipulators with multiple constraints and system uncertainties," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 1, pp. 789-801, 2024.
- [65]. *Guangtai Tian, Jin Tan, Bin Li, and Guangren Duan, "Optimal Fully Actuated System Approach-Based Trajectory Tracking Control for Robot Manipulators," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7469-7478, 2024.
- [66]. DaZhi Wang, LiSong Sun, and GuoFeng Sun, "Fixed-time disturbance observer-based control for uncertainty systems applied to permanent-magnet speed control," *Journal of Electrical Engineering & Technology*, vol. 19, no. 6, pp. 3795-3808, 2024.
- [67]. Dian Wang, Yunhua Wu, Chengfei Yue, and Songjing Ma, "Fully Actuated Flexible Spacecraft Attitude Control With Input Constraint," *ACTA AUTOMATICA SINICA*, vol. 50, no. 11, pp. 2177-2187, 2024.
- [68]. Peng Wang, Xiaogao Xing, Waqar Younis, Nasim Ullah, Lukas Prokop, Stanislay Misak, and Zubair Yamin, "Torsional Vibration Adaptive Neural Network Fault-Tolerant Control of the Main Drive System for the Rolling Mill," *IEEE Access*, vol. 12, pp. 125585-125591, 2024.
- [69]. Qian Wang and Yan Jin, "Fully actuated system approach for spacecraft rendezvous system with actuator saturation," *International Journal of Systems Science*, vol. 55, no. 8, pp. 1709-1718, 2024.
- [70]. Wei Wang, Shiwei Chen, Zhongjiao Shi, and Yuchen Wang, "Neuroadaptive high-order fully-actuated system approach for roll autopilot with unknown uncertainties," *Aerospace Science and Technology*, vol. 155, Art. no. 109567, 2024.
- [71]. Wei Wang, Yuchen Wang, Shiwei Chen, Yongcang Guo, and Zhongjiao Shi, "Observer-based robust high-order fully actuated attitude autopilot design for spinning glide-guided projectiles," *Defence Technology*, vol. 34, pp. 282-294, 2024.
- [72]. *X. B. Wang and G. R. Duan, "Comprehensive reconstructions and predictive control for quadrotor UAV information gathering tracking missions based on fully actuated system approaches," *ISA Transactions*, vol. 147, pp. 540-553, 2024.
- [73]. *Yifan Wang, Zhiyu Wang, Gaoran Wang, and Liangming Chen, "Modeling and Control of A Coaxial Pendulum Drone," *IEEE Transactions on Intelligent Vehicles*, 2024. doi: 10.1109/TIV.2024.3454340.
- [74]. Youpeng Xing, Zeyang Yin, and Caisheng Wei, "Appointed-time safety-guaranteed control for spacecraft flying around non-cooperative target based on fully actuated system theory," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2570-2588, 2024.
- [75]. Yujie Xu, Yingjie Wang, Mingyu Fu, and Hao Chen, "Predefined-Time Hybrid

- Tracking Control for Dynamic Positioning Vessels Based on Fully Actuated Approach," *Journal of Marine Science and Engineering*, vol. 12, no. 11, Art. no. 2025, 2024.
- [76]. *Chengyuan Yan, Jianwei Xia, Ju H. Park, Jun-e Feng, and Xiangpeng Xie, "Fully Actuated System Approach-Based Dynamic Event-Triggered Control With Guaranteed Transient Performance of Flexible-Joint Robot: Experiment," *IEEE Transactions on Circuits and Systems II-Express Briefs*, vol. 71, no. 8, pp. 3775-3779, 2024.
- [77]. *Zixiao Yang, Shiyao Li, Chen Wei, Zhan Li, and Bo Zhu, "Robust control of underactuated 3-DOF helicopter based on lower order disturbance estimator," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, 2024.
- [78]. *Fuxing Yao, Guangtai Tian, Aiguo Wu, Guang-Ren Duan, and He Kong, "A High-Order Fully Actuated System Approach to Control of Overhead Cranes," *IEEE/ASME Transactions on Mechatronics*, 2024. doi: 10.1109/tmech.2024.3446670.
- [79]. Fuxing Yao, Ai-Guo Wu, Mehdi Golestani, Derong Liu, Guang-Ren Duan, and He Kong, "Adaptive Tracking Control for Underactuated Double Pendulum Overhead Cranes With Variable Cable Length," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7728-7741, 2024.
- [80]. Zeyang Yin, Youpeng Xing, Fei Han, Caisheng Wei, and Yuxin Liao, "Fully-actuated prescribed performance control of spacecraft formation for flying cooperatively around non-cooperative target," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, 2024.
- [81]. *Yi Yu, Guoping Liu, Yi Huang, and Peng Shi, "Optimal cooperative secondary control for islanded DC microgrids via a fully actuated approach," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 2, pp. 405-417, 2024.
- [82]. *Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M. Guerrero, "Distributed learning-based secondary control for islanded DC microgrids: A high-order fully actuated system approach," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 3, pp. 2990-3000, 2024.
- [83]. *Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M. Guerrero, "Coordinated Predictive Secondary Control for DC Microgrids Based on High-Order Fully Actuated System Approaches," *IEEE Transactions on Smart Grid*, vol. 15, no. 1, pp. 19-33, 2024.
- [84]. *Dawei Zhang and Guoping Liu, "A high-order fully actuated predictive control approach for spacecraft flying-around," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2556-2569, 2024.
- [85]. *Dawei Zhang and Guoping Liu, "Predictive sliding-mode control for networked high-order fully actuated multiagents under random deception attacks," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 54, no. 1, pp. 484-496, 2024.
- [86]. *Dawei Zhang and Guoping Liu, "Secure predictive control for networked high-order fully actuated systems under random DoS attacks," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 4, pp. 6935-6945, 2024.
- [87]. Dawei Zhang and Guoping Liu, "A high-order fully actuated predictive control approach of spacecraft flying-around under time-variant communication constraints," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 47-57, 2024.
- [88]. *Da Wei Zhang and Guo-Ping Liu, "Observer-based HOFA predictive cooperative control for networked multi-agent systems under time-variant communication

- constraints," ISA Transactions, vol. 147, pp. 554-566, 2024.
- [89]. Da-Wei Zhang and Guo-Ping Liu, "Robust Cooperative Control for Heterogeneous Uncertain Nonlinear High-Order Fully Actuated Multiagent Systems," *IEEE Transactions on Cybernetics*, vol. 54, no. 10, pp. 5721-5732, 2024.
- [90]. *Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Secure Predictive Coordinated Control of High-Order Fully Actuated Networked Multiagent Systems Under Random DoS Attacks," *IEEE Transactions on Cybernetics*, vol. 54, no. 4, pp. 2668-2679, 2024.
- [91]. Hongyan Zhang, Wei Wang, Shiwei Chen, Yi Ji, and Jiaqi Liu, "Integrated guidance and control design based on fully actuated system method," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 137-149, 2024.
- [92]. Liuliu Zhang, Peng Wang, Cheng Qian, and Changchun Hua, "Adaptive Trajectory Tracking Error Constraint Control of Unmanned Underwater Vehicle Based on a Fully Actuated System Approach," *Journal of Systems Science & Complexity*, vol. 37, no. 6, pp. 2633-2653, 2024.
- [93]. Qingrui Zhang, Yunyun Liu, Huijie Sun, and Bo Zhu, "Robust cooperative tracking control for close formation of fixed-wing unmanned aerial vehicles," *Acta Aeronautica et Astronautica Sinica*, vol. 45, no. 1, pp. 110-126, 2024.
- [94]. Zhongcai Zhang and Guangren Duan, "Stabilization controller of an extended chained nonholonomic system with disturbance: An FAS approach," *IEEE/CAA Journal of Automatica Sinica*, vol. 11, no. 5, pp. 1262-1273, 2024.
- [95]. 王典, 吴云华, 岳程斐, and 马松靖, "输入受限的挠性航天器全驱姿态饱和控制," *自动化学报*, vol. 50, no. 11, pp. 2177-2187, 2024.
- [96]. 郑雪梅, 郅济荣, 张星宇, and 李其恩, "全驱系统理论在 LCL 并网逆变器中的控制及应用," *长春工业大学学报*, vol. 45, no. 02, pp. 125-129, 2024.
- [97]. *张亚辉, 李淦鑫, 刘艳玲, and 胡云峰, "基于高阶全驱的质子交换膜燃料电池阴极 进 气 系 统 控 制 方 法," *吉 林 大 学 学 报 (工 学 版)*, 2025. doi: 10.13229/j.cnki.jdxbgxb.20240063.
- [98]. Yang Chen, Dandan Zhang, Zhikai Zhang, and Heng Zhang, "A High-Order Fully Actuated System Approach for Prescribed Performance Tracking Control of Quadrotor Unmanned Aerial Vehicle With Time-Varying Uncertain Aerodynamic Parameters and Disturbances," *International Journal of Robust and Nonlinear Control*, vol. 35, no. 6, pp. 2246-2257, 2025.
- [99]. *Kai-Xin Cui, Guang-Ren Duan, and Yang Cui, "Discrete-time high-order fully actuated robust stabilization control for a type of combined spacecraft subject to uncertainties," *Asian Journal of Control*, 2025. doi: 10.1002/asjc.3574.
- [100]. Rui-Qi Dong, Ai-Guo Wu, Bin Li, and Guang-Ren Duan, "Hyperbolic Sine Function-Based Full-State Feedback Attitude Tracking Control for Rigid Spacecraft," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 55, no. 5, pp. 3412-3424, 2025.
- [101].*Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "FAS-based anti-disturbance stabilization control of nonholonomic systems: Theory and experiment," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 3608-3620, 2025.
- [102]. *Yang Gao, Zhongcai Zhang, Nan Jiang, and Yuqiang Wu, "Anti-Swing Control for

- Double-Pendulum Overhead Cranes: From Underactuated to FAS Configuration," *IEEE Transactions on Industrial Electronics*, 2025. doi: 10.1109/tie.2025.3544192.
- [103]. Ming Hou, Limeng Jia, and Zhengqin Wang, "Adaptive Parameter Approaching Law-Based Sliding Mode Control for Wheeled Robots," *IEEE Access*, vol. 13, pp. 14881-14890, 2025.
- [104]. Jiao Hu, Yuhang Xu, and Bin Jiang, "Game-based fault-tolerant formation containment control for fixed-wing UAVs under the fully actuated system framework," *Aerospace Science and Technology*, vol. 160, Art. no. 110052, 2025.
- [105]. Shixiang Jia, Jianbin Qiu, and Tong Wang, "High-order Fully Actuated System Approach based Attitude Stabilization for Underactuated Rigid and Flexible Spacecraft," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 15094-15105, 2025.
- [106].*Huixin Jiang, Yana Yang, Changchun Hua, Xiaolei Li, and Fangyao Lu, "Predefined-Time Composite Fuzzy Adaptive Control for Flexible-Joint Manipulator System With High-Order Fully Actuated Control Approach," *IEEE Transactions on Industrial Electronics*, 2025. doi: 10.1109/tie.2024.3515255.
- [107]. Dongyan Jin, Yannan Bi, Tong Wang, Jianbin Qiu, and Huijun Gao, "Twistors-Based Attitude-Orbit Integrated Control for Spacecraft: A High-Order Fully Actuated System Approach," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 55, no. 3, pp. 2098-2105, 2025.
- [108].*Ping Li, Guangren Duan, Bi Zhang, Ping Wang, and Yuzhong Wang, "High-Order Fully Actuated Approach for Output Tracking Control of Flexible Servo Systems Subject to Uncertainties and Disturbances," *IEEE Transactions on Industrial Electronics*, 2025. doi: 10.1109/tie.2025.3531480.
- [109]. *Zhan Li, Yipeng Yang, Xinghu Yu, Cuiyu Liu, Okyay Kaynak, and Huijun Gao, "Fixed-Time Control of a Novel Thrust-Vectoring Aerial Manipulator via High-Order Fully Actuated System Approach," *IEEE/ASME Transactions on Mechatronics*, vol. 30, no. 2, pp. 1084 - 1095, 2025.
- [110]. Kerun Liu, Jiawei Li, and Ming Liu, "Fuzzy Neuro-adaptive Observer-Based Fault-Tolerant Control for Flexible Spacecraft Attitude Maneuver with Pointing Constraints," *International Journal of Fuzzy Systems*, 2025. doi: 10.1007/s40815-025-02028-7.
- [111]. Zhihao Liu and Peng Li, "Robust Formation Control of Quadrotor UAVs: A Fully-Actuated Control Approach," *Unmanned Systems*, 2025. doi: 10.1142/s2301385025500918.
- [112]. Zhijie Liu, Fuxing Yao, Lujun Sun, Fei Han, Guangren Duan, and He Kong, "A high-order fully actuated system approach to attitude control of 3D Cubli," *IEEE Transactions on Aerospace and Electronic Systems*, 2025. doi: 10.1109/TAES.2025.3567962.
- [113]. Yuan Lu, Bo Meng, and Xuan Jin, "Fault-Tolerant Formation-Containment Control for UAVs with Sensor Faults and Obstacle Avoidance," *International Journal of Aeronautical and Space Sciences*, 2025. doi: 10.1007/s42405-025-00926-6.
- [114]. Yuan Lu, Ke Zhang, Lihua Shen, and Jingping Xia, "Fixed-time fault-tolerant formation-containment control for unmanned helicopters via a fully actuated system

- approach," Applied Mathematical Modelling, vol. 143, Art. no. 116004, 2025.
- [115]. Bo Meng, Lihua Shen, Ke Zhang, and Jingping Xia, "Fully actuated system approach-based fault-tolerant formation reconstruction control and optimal task assignment for fixed-wing UAVs," *Nonlinear Dynamics*, vol. 113, no. 1, pp. 645-659, 2025.
- [116]. Weijie Ren, Guang-Ren Duan, Ping Li, and He Kong, "Set-Based Fault-Tolerant Control for Continuous-Time Nonlinear Systems: A Fully Actuated System Approach," *IEEE/ASME Transactions on Mechatronics*, 2025. doi: 0.1109/TMECH.2025.3565876.
- [117]. Zhongjiao Shi, Zhijie Liu, Feng Han, and Xinchun Wang, "Adaptive Attitude Control for Spinning Projectiles with Time-Varying Aerodynamic Uncertainties," *IEEE Transactions on Aerospace and Electronic Systems*, 2025. doi: 10.1109/taes.2025.3541607.
- [118]. Dian Wang, Yunhua Wu, Chengfei Yue, and Songjing Ma, "Fully actuated system-based active disturbance rejection saturated attitude control for flexible spacecraft ;" *Journal of the Franklin Institute*, vol. 362, no. 6, Art. no. 107613, 2025.
- [119]. Wei Wang, Shiwei Chen, Junfang Fan, and Hongyan Zhang, "Robust Second-Order Backstepping Design of Integrated Guidance and Control Based on a Fully Actuated System Approach," *International Journal of Robust and Nonlinear Control*, vol. 35, no. 8, pp. 2933-2951, 2025.
- [120].*Yadong Wei and Bo Zhang, "A Robust Controller Based on High-Order Fully Actuated Approach for DC–DC Buck Converter With Constant Power Loads in DC Microgrids," *IEEE Transactions on Power Electronics*, vol. 40, no. 7, pp. 9090-9106, 2025.
- [121].Fu-Zheng Xiao, He Ba, Mu-Qing Niu, and Li-Qun Chen, "Observer-Based Robust Attitude Control of Liquid-Filled Flexible Spacecraft in a Fully Actuated System Framework," *Journal of Aerospace Engineering*, vol. 38, no. 3, Art. no. 04025016, 2025.
- [122]. Fu-Zheng Xiao and Li-Qun Chen, "Unwinding-free property of the dual-quaternion-based pose tracking controllers designed by fully actuated system approaches," *Aerospace Science and Technology*, vol. 162, Art. no. 110197, 2025.
- [123]. Fu-Zheng Xiao and Li-Qun Chen, "Unwinding-Free Attitude Control Based on Fully Actuated Systems: Transformation, Design, and Analysis," *IEEE Transactions on Aerospace and Electronic Systems*, 2025. doi: 10.1109/taes.2025.3540039.
- [124].*Xindi Xu, Mingzhe Hou, and Guangren Duan, "Dynamic Periodic Event-Triggered Adaptive Prescribed Performance Control of Uncertain Semi-Strict Feedback Systems With Application," *IEEE Transactions on Circuits and Systems I-Regular Papers*, 2025. doi: 10.1109/tcsi.2024.3522007.
- [125]. Yuhang Xu, Bin Jiang, Marios M Polycarpou, and Bingyun Li, "Fault-Tolerant Game Control for Quadrotor Helicopters' Formation: A Fully Actuated System Approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 2, pp. 4808 -4824, 2025.
- [126]. Tong Yang, Menghua Zhang, Wei Sun, and Ning Sun, "Fully-Actuated System Approach-Based Neuroadaptive Control for Underactuated Robots With State Estimation and Delay," *IEEE Transactions on Cybernetics*, 2025. doi:

- 10.1109/tcyb.2025.3562652.
- [127]. Yi Heng Yang, Kai Zhang, Zhi Hua Chen, Xue Fei Yang, and Guang Ren Duan, "Distributionally Robust Model Predictive Control for Trajectory Tracking of Space Manipulator Based on Fully Actuated System Approach," *IEEE Transactions on Aerospace and Electronic Systems*, 2025. doi: 10.1109/taes.2025.3558184.
- [128].*Yi Yu, Guo-Ping Liu, Yi Huang, and Peng Shi, "Fully Actuated System-Based Modeling and Control of DC Microgrids With Inductive Tie Lines: A Predictive Strategy," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 2, pp. 1990-2000, 2025.
- [129]. Feng Zhang, Hao Sun, Haipeng Chen, and Shengbao Wu, "Integrated control design for orbit injection of launchers via fully-actuated system approach," *International Journal of Systems Science*, 2025. doi: 10.1080/00207721.2025.2487547.
- [130].*Menghua Zhang, Zengcheng Zhou, Ning Sun, Haokun Geng, Jing Zhao, and Zhixin Yang, "Bioinspired Reference Model and Fully Actuated System Approach-Based Neuroadaptive Control for Uncertain Active Suspension Systems With Input Dead Zones," *IEEE Transactions on Industrial Electronics*, 2025. doi: 10.1109/tie.2025.3536552.
- [131].*Menghua Zhang, Zengcheng Zhou, Ning Sun, and Jing Zhao, "Fully actuated system approach to robust control for uncertain active suspension systems," *Nonlinear Dynamics*, vol. 113, no. 8, pp. 8757-8768, 2025.
- [132]. Zhong-Cai Zhang, Guang-Ren Duan, and Yu-Qiang Wu, "Continuous Stabilization Controller for Nonlinear Systems With Two Piecewise Controllers and Its Application to Underactuated Ships," *IEEE Transactions on Cybernetics*, vol. 55, no. 4, pp. 1594-1605, 2025.
- [133]. *Xiangxiang Zou, Hui-Jie Sun, Deshan Meng, Taowen Guo, and Bin Liang, "Practical Prescribed-Time Trajectory Tracking Control for a Novel Tendon-Driven Space Manipulator via Fully Actuated System Approaches," *IEEE/ASME Transactions on Mechatronics*, 2025. doi: 10.1109/tmech.2025.3528990.
- [134]. 王鹏, 钱承, 张柳柳, and 华长春, "基于全驱系统方法的 AUV 鲁棒自适应轨迹跟 踪控制," 控制与决策, vol. 40, no. 01, pp. 285-291, 2025.
- [135]. 吴雨瑶, 李雪芳, and 刘万泉, "全驱刚体航天器的预定时间姿态跟踪控制," *控制与决策*, vol. 40, no. 02, pp. 469-478, 2025.

第三部分: FASTA 2025 部分论文清单(148篇)

注: 我们在 FASTA 2025 的 517 篇接收论文中按题目搜索了下述关键词:

"fully actuated", "fully-actuated", "FAS", "FASs", "HOFA"

共搜出论文148篇,现列表如下。

- [1] Yi Ding and Guangren Duan, "Low-complexity Prescribed Performance Control for Perturbed Robotic Manipulators: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [2] Mengtong Gong, Li Sheng, and Donghua Zhou, "High-Gain Observer-Based Fault-Tolerant Stabilization for High-Order Sub-Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [3] Xueteng Wang, Mengyao Wei, and Jiandong Wang, "Optimal Allocation of Fully Actuated Energy Systems in Gas-to-methanol Processes," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [4] Xueqing Liu, Li Sheng, and Donghua Zhou, "Fault-Avoidance Control For Stochastic Fully Actuated Systems With Local Faults," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [5] Jiawei Wu, Bing Li, Ling Huang, Jiashuai Li, and Mingze Li, "Robust Trajectory Tracking for UVMS via Fully Actuated System Theory and Liquid Neural Networks," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [6] Xiaoran Dai, Guoping Liu, Zhongcheng Lei, Wenshan Hu, Hong Zhou, and Jun Zhang, "Predictive Control for Networked Buck Converter Systems with Time Delays Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [7] Menghua Zhang, Jing Zhao, and Weizhen Liu, "Fully Actuated System Approach to Adaptive Control for Underactuated Tower Crane Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [8] Xue Zhang and Guangren Duan, "Finite-Time Substabilization for Nonholonomic Systems with Time Delay: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [9] Fuzheng Xiao, Yongheng Yu, and Liqun Chen, "Unwinding-Free Performance of a Sliding-Mode Spacecraft Pose Controller Designed by Fully Actuated System

- Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [10] Miao Cai and Donghua Zhou, "Fault-Tolerant Control for High-Order Fully Actuated Systems With Dead-Zone Observers," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [11] Hong Jiang and Guangren Duan, "Robust Control Based on Unknown Input Disturbance Observer for Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [12] Jing Zhang, Jiarui Yang, Wendong Gai, and Gang Jing, "A Fully Actuated System Approach based Attitude Control for 3-DOF Helicopter," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [13] Haifan Su, Ziwen Yang, Shanying Zhu, and Cailian Chen, "Adaptive Bearing-based Target Entrapping Control of Autonomous Underwater Vehicles Using Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [14] Erwateasila Sa, Wenjie Lu, Jiaole Wang, and Peng Li, "Nonlinear Control of a Fully Actuated Robotic Hand Using High-Order Sliding-Mode Controller for Prosthetic Applications," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [15] Jiamin Liu and Xiaoxu Liu, "High Order Fully Actuated Modelling and Control of an Unmanned Vehicle," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [16] Huarong Yue and Jianwei Xia, "Adaptive Control for Uncertain High-Order Fully Actuated Nonlinear Systems With Deferred Constraint," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China
- [17] Zhaoming Zhang, Haifan Su, Ziwen Yang, and Shanying Zhu, "Bearing-Only Circumnavigation of a Varying Velocity Target for AUV Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [18] Wenhui Ning and Zhongcai Zhang, "Tracking Control of Strict-Feedback System Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [19] Huanhuan Zhao, Yuchao Guo, and Yuan Fan, "Fully Actuated System Approach to Trajectory Tracking Control of Robot Manipulator with Disturbance," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [20] Yuzhu Xiang, Weiwei Yi, and Jian Guo, "Observer-Based Robust Control for Flexible Robotic Manipulators with Model Uncertainties via Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [21] Yulin Duan, Jiaming Zhang, Junxiang Zhang, and Guangren Duan, "Prescribed Performance Tracking Control for Uncertain Strict-Feedback Systems Using Fully

- Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [22] Dongyan Jin, Tianhao Zhang, Yichuan Fu, and Jianbin Qiu, "Prescribed Performance Control for Attitude Tracking of Spacecraft via High-Order Fully Actuated System Approach and Extended State Observer," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [23] Yingqi Zhu and Zhiyuan Dong, "Prescribed-Time Control for a Class of Fully Actuated Rigid-Body Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [24] Yifan Wang and Wei Sun, "Prescribed-Time Tracking for Second-order CPSs Against Deception Attacks via Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [25] Shubin Ma, Yifan Guo, and Liang Zhao, "Feature Clustering and Fault-Tolerant Control of Multimodal Missing Data in a Fully Actuated System," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [26] Haoran Tang, Yuhang Meng, and Zhengrong Xiang, "Finite-Time Control of Amphibious Unmanned Surface Vehicles: Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [27] Shiwei Chen, Wei Wang, Zejun Zhu, and Junfang Fan, "Robust Optimal Control for Roll Angle Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [28] Yunfei Qiu, "Event-Triggered Adaptive Tracking for Nonlinear Systems Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [29] Zeyuan Zhao and Xianwei Li, "Tracking Control of Quadrotors Based on a High-Order Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [30] Jianpeng Zou, Weijie Ren, and Guangren Duan, "Improved Observer-based Fully Actuated System Approach to 3-DOF Quadrotor Control," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [31] Jing Xu, Kai Zhang, Yue Wu, and Zhaoke Ning, "Trajectory Tracking Control of Lunar Explorer Operation Robotic Manipulator Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [32] Haowen Liu, Weijie Ren, Ping Li, and Guangren Duan, "Tracking Control for Cart-pole Pendulum System Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [33] Shida Cao and Guangren Duan, "Fully Actuated System with an Unknown State: A

- Bearing-only Circumnavigation Case," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [34] Zixun Wang, Guangren Duan, and Ping Li, "Parametric Design of Controller for Cube Robot Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [35] Jinpeng Fan, Guangren Duan, and Weijie Ren, "Adaptive Neural Control for Flexible Joint Manipulators with Uncertainties: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [36] Weijie Ren, He Kong, and Guangren Duan, "Fault Detection Set-Valued Observer Design for Discrete-Time Nonlinear Systems Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [37] Xujie Zhang and Guangren Duan, "Predictor Design and Delay Robustness Analysis for LTI Systems with State and Input Delays: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [38] Liji Wang, Zhicheng Wei, and Huifang Min, "Adaptive Control of Nonlinear Systems with Parameter Uncertainty Based on the Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [39] Zhengyuan Li, Chen Chen, and Jian Guo, "Finite-time Formation Control for Fixed-Wing UAVs Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [40] Yi Yang, Minghao Wang, Yanjing Li, Hanyu Cen, and Liang Zhao, "Fully Actuated System-Based Deep Learning Method for Blast Furnace Fault Diagnosis," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [41] Yiyang Liu, Yiting Ma, Shishuo Chen, Yucheng Wang, Chenmei Song, Li Qiu, and Feiqi Deng, "Predictive Observer-compensated High-Order Fully Actuated Tracking Control for Linear Switched Reluctance Machine," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [42] Er·leimanakuier Wu and Chenxiao Cai, "Fully Actuated System-Based Control for Precise Trajectory Tracking of Quadrotor UAVs," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [43] Hongyan Zhang, Wei Wang, and Shiwei Chen, "Adaptive Second-Order Disturbance Observer-Based 3D Integrated Guidance and Control Design Using Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [44] Shiyu Zhang and Guangren Duan, "Fully Actuated System Models for Systems in System Upper Hessenberg Form," in Proceedings of the 2025 4th Conference on Fully

- Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [45] Zifan Liu and Lantao Xing, "Event-Triggered Control for High-Order Fully Actuated Strict-Feedback Nonlinear Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [46] Tailai Cao, Zhaoming Zhang, Ziwen Yang, and Shanying Zhu, "High-Order Fully Actuated System Approaches: Trajectory Tracking of AGVs Based on Model Predictive Control," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [47] Heng Zhang, Weili Ding, Changchun Hua, and Biao Lu, "Predictive control of underdriven gantry cranes based on High-order Fully Actuated system," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [48] Guangquan Duan, Xiaoguang Wang, Yuxin Liang, Qi Wang, Bowen Yu, Xianglei Meng, and Dong Yu, "Adaptive Fully Actuated Prescribed Performance Control for Combined Spacecraft with Unknown Inertial Parameters," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [49] Dawei Zhang and Guoping Liu, "Tracking Control for Nonlinear Fully Actuated Systems with Multiple Disturbances Using Dual-Disturbance Observer," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [50] Zhiyu Wang and Zhiyun Lin, "GNN-based Distributed Consensus Control for Heterogeneous Multi-Agent Systems with Linear and Fully Actuated Nonlinear Model," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [51] Lin Liu and Guangren Duan, "High-gain Observer-based Output Feedback Stabilization for Nonlinear Systems with Quantized Input Signal: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [52] Yuzhuo Zhao, Dan Ma, and Yuzhong Wang, "Event-Based Prescribed Performance Control for Thermoacoustic Systems with Unknown Flame Response: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [53] Shengjia Chen, Haowen Liu, and Ping Li, "Output Tracking Control of Mobile Wheeled Inverted Pendulum with State Estimation via Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [54] Zhu Meng, Wen Bai, and Huanqing Wang, "Adaptive Fuzzy Tracking Control for a Single-Link Flexible Joint Manipulator System Based on the Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [55] Aize Li, Liyan Wen, and Sirui Liu, "Adaptive Trajectory Tracking Control of Quadrotor UAV under Turbulent Winds via Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA),

- 2025, Nanjing, China.
- [56] Xin Wen, Zhe Guan, Kuo Chen, and Changchun Hua, "Intelligent Control of Hydraulic Excavators Based on Data-Driven GPC and High-Order Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [57] Yifan Guo, Rui Lin, Yi Yang, and Liang Zhao, "Big Data Analysis from the Perspective of Fully Actuated System," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [58] Chengzhan Sui, Rui Lin, Jiaoyuan Liang, Jie Liu, and Liang Zhao, "FAME: A Multi-Encoder Time Series Forecasting Model Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [59] Bo Zhang, Changchun Hua, Jiafeng Zhou, Rui Meng, and Yafeng Li, "Adaptive Task-space Robust Control for Hydraulic Excavators: A High-Order Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [60] Jiafeng Zhou, Changchun Hua, Bo Zhang, Rui Meng, and Yafeng Li, "Adaptive tracking control for hydraulic actuators Based on the Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [61] Liang Zhao, Kexuan Wang, Ziyue Wang, Tianqi Yue, and Yi Yang, "Incomplete Multiview Clustering Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [62] Tan Wang, He Kong, Ping Li, and Guangren Duan, "A Fully Actuated System Approach to Adaptive Control for Half-Car Active Suspension Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [63] Zibei Zhang, Jing Zhu, and Hongyuan Zheng, "Formation Control of Multi-UAV Based on High-Order Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [64] Yonghe Fu, Zhe Guan, Hao Yu, and Changchun Hua, "Design of a Data-Driven Adaptive Controller based on FF-ITDL for High-Order Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [65] Ziming Ding and Yan Wang, "Distributed Optimal Control of Large-scale Higher-order Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [66] Wenlong Pan, Changchun Hua, and Pengju Ning, "Event-Triggered Prescribed-Time Non-adaptive Control for Uncertain Fully Actuated Nonlinear Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [67] Xiang Jia, Bochen Li, Chenggang Wang, Lei Song, Dan Huang, and Xuanmin Du,

- "Fully Actuated Approach for Safety-Critical Control of Underactuated Systems via Differential Flatness," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [68] Jinjin Zhang, Yuyan Li, and Shuai Liu, "Trajectory Tracking of Robotic Manipulator Based on High-Order Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [69] Yuanen Li, Xuefang Li, and Wanquan Liu, "Variable Convergence Rate Control of High-Order Nonlinear Impulsive Systems: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [70] Yanjing Chen, Qiqi Xing, Junkai Wang, and Xuefang Li, "ESO-based Iterative Learning Control for Robotic Manipulators with Disturbances: A High-order Fully Actuated Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [71] Yi Yu, Guoping Liu, Peng Shi, and Chi-yung Chung, "High-Order Fully Actuated Voltage Control for DC Microgrids With Constant Power Loads," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [72] Shuaigang Feng, Yafeng Li, Bo Zhang, and Jiafeng Zhou, "Leader-Following Output Consensus for A Class of Lower-Triangular Multi-Agent Systems with Small Transmission Delays Based on Fully Actuated Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [73] Hailong Cui, Guanglei Zhao, and Weili Ding, "Adaptive Variable-Period Event-Triggered Control for High-Order Fully Actuated Nonlinear Multi-Agent Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [74] Zihao Li, Guopin Liu, Yu Zhang, and Changchun Hua, "Prescribed Performance Control for Nonlinear Systems with Input Quantization: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [75] Huaiyuan Jiang, Ruiqing Zhang, and Bin Zhou, "Bias-Policy Iteration Based Adaptive Dynamic Programming for Nonlinear Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [76] Qi Pan, Tengteng Ceng, and Xiuhui Peng, "Stabilization and Tracking Control of Underactuated Unmanned Surface Vessel with High-Order Fully Actuated System Approach in GPS-Denied Environments," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [77] Weiwei Wei, Xiaolong Ma, Yue Zhao, Meng Chen, Ouyang Zhang, Zhuang Liu, and Jianxing Liu, "Extended State Observer Based Fully Actuated Sliding Mode Trajectory Tracking Control of Space Manipulator," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.

- [78] Jiaxiang Li, Huilong Xu, and Zibo Miao, "Population Transfer in Quantum Systems Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [79] Jiacheng Dong, Bin Zhou, and Ruiqing Zhang, "Transformation of Multi-Input Linear Time-Varying Systems into High-Order Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [80] Wenhui Ning and Zhongcai Zhang, "Adaptive Control for High-Order Strict-Feedback System Based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [81] Yanqi Lu, Shuo Han, and Weiran Yao, "Adaptive Control of Fully-Actuated Cable-Driven Parallel Robots for Mars Rover Landing Simulation," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [82] Yinjia Jiao, Xiaoning Shen, Jianan Qu, Juxing Tian, Xinpo Lin, Zhuang Liu, and Jianxing Liu, "Disturbance Observer-Based Sliding Mode Control of PMSM via High-Order Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [83] Zhengsheng Chen, Mengyang Zhou, Weihao Dou, Honglei Che, Jiayin Liu, and Yang Tian, "Finite-time Sliding Mode Control of Uncertain Hydraulic Manipulator via High-Order Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [84] Jibin Dong, Baolin Hou, Wei Zhao, and Yuhang Meng, "Position Control of Artillery Shell Chain Rammer Based on Observer and Fully Actuated System Method," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [85] Ruizhi Tong, Runze Wang, Yankui Shi, Hongzhen Li, and Yi Ceng, "Prescribed-Time Control for Nonplanar Hexarotor UAVs Basedon High-Order Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [86] Yu Zhang, Yixu Cai, Keli Pang, Guopin Liu, and Changchun Hua, "Composite Learning-based Adaptive Finite-time Parameters Estimation and Control for High-order Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [87] Yu Zhang, Yixu Cai, Keli Pang, Licui Zhao, and Changchun Hua, "Adaptive Fixed-time Control of High-order Fully Actuated Systems Using Dynamic Regressor Extension and Mixing Estimators," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [88] Bing Yan and Yun Zou, "Disturbance Rejection Observer Parametric Design for Quadrotor with Suspended Payload via Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and

- Applications (FASTA), 2025, Nanjing, China.
- [89] Lin Yang and Yuanlong Li, "Dynamic Anti-windup Design for Nonlinear High-order Fully Actuated Systems with Actuator Saturation," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [90] Yiting Ma, Yiyang Liu, Yucheng Wang, Shishuo Chen, Li Qiu, Jun Wu, and Feiqi Deng, "High-Order Fully Actuated Strict-Feedback System-Based Approach for Modeling and Tracking Control of Linear Switched Reluctance Machine," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [91] Hanbin Qiu, Jiahao Zhang, and Ying Zhang, "Prescribed-time Trajectory Tracking Controller for Flexible-joint Manipulators: A High-order Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [92] Lin Yang and Yuanlong Li, "Prescribed Performance-Based Anti-windup Design for Nonlinear Fully Actuated Systems with Actuator Saturation," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [93] Hanjun Shang, Yabin Gao, Jiahui Wang, Qimin Hou, Jiyuan Kuang, and Zhuang Liu, "Fully Actuated System Approach to Tracking Control of Fixed-Wing Unmanned Aerial Vehicles," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [94] Zewei Li and Yongyuan Yu, "On Fully Actuated Boolean Control Networks," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [95] Guangrun Liu, Qiyang Mou, Jingping Xia, Bin Jiang, and Ke Zhang, "Incremental Fully Actuated System Approach Based Fault-Tolerant Control Design and Fight Implementation of Unmanned Helicopters," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [96] Yiqi Chen and Shuyi Shao, "Discrete-time fractional-order cooperative control of multi-spacecraft based on fully actuated system theory and disturbance observer," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [97] Yueyao Ye, Yiyu Feng, and Xianfu Zhang, "Event-triggered control for large-scale systems with unknown coefficients and actuator faults: A fully actuated system approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [98] Yuanpeng Ding, June Feng, and Yongyuan Yu, "Further Results on Full-Actuation of Linear Boolean Control Networks," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [99] Yaowei Wang, Dufei Zhang, Qi Wu, Xiang Wu, and Caoyuan Gu, "Fully-actuated System Approach Based Trajectory Tracking Control of Wheeled Mobile Robots," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.

- [100] Qian Wang, Jiahao Shi, and Zhaoyang Leng, "Predefined-time sliding mode control for robotic arm based on fully actuated system approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [101] Jiaming Zhang, Yang Liu, and Ben Niu, "Prescribed-time control for nonholonomic systems: A fully actuated systems method," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [102] Xiangyu Gao, Mengjie Chen, Baowen Zhang, and Lingling Lv, "Fully actuated system approach of prescribed-time spacecraft elliptical orbital rendezvous," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [103] Hao Sun, Liang He, and Ling Huang, "An Adaptive Control Method for Humanoid Robots Based on Fully-actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [104] Wangchong Peng and Yang Cui, "Predefined-Time Control for Unmanned Surface Vehicles with Actuator attacks Based on fully actuated system approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [105] Yuhang Meng, Haoran Tang, Dong Wu, and Zhengrong Xiang, "Full-actuated system approach for an amphibious unmanned surface vehicle based on fixed-time trajectory tracking controller," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [106] Min Li and Feng Shu, "Sampled-data control of a class of high-order fully actuated systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [107] Yana Yang, Long Chen, Xiaoshuang Zhou, Shuzong Chen, and Changchun Hua, "Nonlinear extended state observer-based closed-loop control for underactuated USV: high-order fully actuated system approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [108] Shunli Li, Guangren Duan, and Bin Zhou, "On the perfect output regulation of high-order fully actuated systems with invariant zeroes," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [109] Xuesong Li and Yingjing Qian, "Attitude-orbit Coupling Control Based on the Fully-actuated Systems Approach Utilizing Dual Quaternion," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [110] Yanqiao Wei, Fubiao Sun, Dayan Liu, and Changchun Hua, "Stabilization of a fractional-order chaotic system based on fully actuated system approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [111] Jiaping Qiang, Li Li, Yipeng Cao, and Chao Liu, "Practical prescribed-time tracking control for underactuated WMR: a fully actuated system approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA),

- 2025, Nanjing, China.
- [112] Yuehang Li, Feng Zhang, and Chaohui Gao, "Observer Design and Attitude Control for Dumbbell-shaped Spacecraft Using a Fully-actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [113] Binyuan Wang, Junfang Fan, and Fangyi Quan, "Roll-Stabilized Full Actuated Control of Guided Projectiles with Practical Actuator Constraints," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [114] Shiyu Han and Guangren Duan, "Fully-actuated System Approaches based Fault-tolerant Attitude Control via Intermediate Variable Estimator," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [115] Fuxing Yao, Zhijie Liu, Liangming Chen, Tianqi Yue, and He Kong, "Further results on the fully actuated system approach to control of overhead cranes," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [116] Zongbiao Weng and He Kong, "A high-order fully actuated system approach to control of the 2D Cubli," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [117] Baowen Zhang and Mengjie Chen, "Fixed-time feedback control design of input-delay spacecraft rendezvous system based on fully actuated system theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [118] Baisen Wang and Peng Wang, "Adaptive Prescribed Performance Control for Variable-Sweep Aircraft Based on Fully-Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [119] Zeyi Zhang, Hao Jiang, and Dong Shen, "Solving Trajectory Tracking of High-Order Fully Actuated Systems by Iterative Learning Control," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [120] Yadong Wei and Bo Zhang, "Active Power Decoupling Control Based on Fully-Actuated System Approach For Single-Stage AC-DC Converters," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [121] Wushan Jia, Xiaochen Xie, and Huijun Gao, "A Composite Adaptive Control Approach for a Class of Uncertain Fully Actuated Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [122] Zhenghui Geng, Yuchen Wang, Linghuan Zheng, Xin Ren, and Yahui Zhang, "Application of Fuzzy Adaptive High-Order Fully Actuated Control Strategy in SbW for Angle Tracking," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.

- [123] Na Lin and Ronghu Chi, "Data-driven High-order Fully Actuated Iterative Learning Control for Unknown Nonaffine Nonlinear Systems," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [124] Yifan Li, Zhiwei Liu, and Mingfeng Ge, "Nash Equilibrium Seeking for Networked Marine Surface Vehicles based on Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [125] Jihao Zhang, Qian Chen, Yifan Li, Mingfeng Ge, and Zhiwei Liu, "Predefined-Time Tracking Control of Robotic Manipulator: A Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [126] Bingxin Qiu, Yifan Li, Zhiwei Liu, and Mingfeng Ge, "A Predefined-Time Consensus Algorithm for Unmanned Vehicles Based on the Fully Actuated System Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [127] Jiawei Gao, Yifan Li, Qian Chen, Mingfeng Ge, and Zhiwei Liu, "Tracking Control of Manipulators with Unknown Disturbances: A Novel Fully Actuated System Method," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [128] Wenzhuang Wang, Jizhe Wang, Yuchen Wang, Wenhao Shi, and Yahui Zhang, "Adaptive Clamping Force Control of Electromechanical Brake System Based on High-Order Fully Actuated System Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [129] Kaiyang Feng, Jizhe Wang, Yuchen Wang, Kun Ma, and Yahui Zhang, "Adaptive control for Active Rear-Wheel Steering System Based on High-order Fully Actuated System Coordinated with Fully Actuated Sliding Mode Control for Traction Control System," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [130] Hao Fan, Guangyu Wei, and Chaochen Gu, "Motion Control of Complex Gantry Dual-Drive Platform Based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [131] Yufa Sun and Zhiguang Feng, "Optimal Control of Nonlinear Singular Systems based on Fully Actuated System Theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [132] Ruihe Shi and Guangren Duan, "Fully Actuated System Approach to Vehicle Lateral Control," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [133] Kaixin Cui and Hao Lu, "Discrete-Time HOFA Adaptive Control for A Type of Combined Spacecraft with Unknown Parameters and State Delays," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.

- [134] Yirong Zhou and Ruiyun Qi, "Adaptive trajectory tracking for nonminimum phase HSVs based on HOFA system approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [135] Qinlong Du, Xin Huo, Qianning Liu, and Baohan Mi, "Trajectory Prediction Algorithm for Multi-agent Systems Based on HOFA-Informed Neural Networks," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [136] Shaoheng Wu, Limin Wang, and Deyu Ceng, "H∞ fault-tolerant tracking control of autonomous underwater vehicles based on HOFAS theory," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [137] Junxiang Zhang, Weijie Ren, Yulin Duan, and Guangren Duan, "A FAS Approach for Robust Trajectory Tracking Control of a 3-DOF Quadrotor," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [138] Zhijun Chen and Guangren Duan, "Noncertainty-Equivalent Adaptive Control for Submarines Using SDU Decomposition: A FAS Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [139] Nan Jiang, Zhongcai Zhang, Yang Gao, and Yuqiang Wu, "Tracking Control for n-Link Flexible-Joint Robots with Output Constraints and Disturbances: An FAS Approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [140] Liyao Hu and Yajun Gao, "Robust Adaptive Guaranteed Cost Tracking Control for Flexible Joint Robot Based on FAS approach," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China
- [141] Yan Jia, Yifan Li, Qian Chen, Tengfei Ding, and Mingfeng Ge, "FAS-Based Attitude Tracking Control with Prespecified-Time Sliding Mode for Rigid Spacecraft," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [142] Xiubo Wang and Lixue Xu, "Predictive Control for A Type of UASs with Unmatched Disturbances based on FAS Approaches," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [143] Guangren Duan and Ping Li, "Mixed-Order Nonaffine Strict-Feedback Systems: A FAS Approach Treatment," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [144] Xing Zheng, Yifan Li, Qian Chen, Tengfei Ding, and Mingfeng Ge, "An FASA-Based Predefined-Time Tracking Control for Marine Surface Vehicles," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [145] Guangren Duan and Weizhen Liu, "First-Order Nonaffine SFSs: A FAS Approach Treatment," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.

- [146] Guangren Duan and Ping Wang, "Second-Order Nonaffine SFSs: A FAS Approach Treatment," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [147] Binyuan Wang, Junfang Fan, and Fangyi Quan, "Roll-Stabilized Full Actuated Control of Guided Projectiles with Practical Actuator Constraints," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, Nanjing, China.
- [148] 杨懿, 刘致远, 赵亮, 林睿, 严凯宸, "基于多频域全驱系统的时间序列预测," in Proceedings of the 2025 4th Conference on Fully Actuated System Theory and Applications (FASTA), 2025, 南京, 中国.

第四部分: 带有基金委基础科学中心项目项目号 "62188101"的 SCI 论文清单(389篇)

- [1] Zhaobo Sun, Baolin Wu, and Junyu Chen, "Distributed event-triggered model predictive control for spacecraft swarm," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 2, pp. 3273–3290, Apr. 2025.
- [2] Lu Tan, Ling Li, Wan-Quan Liu, Sen-Jian An, and Kylie Munyard, "Unsupervised learning of multi-task deep variational model," *Journal of Visual Communication and Image Representation*, vol. 87, Art. no. 103588, Aug. 2022.
- [3] Dong-Bo Li, Guang-Ren Duan, and Guo-Ping Liu, "Feedback stabilization of switched linear systems via a parametric approach," *IET Control Theory and Applications*, vol. 17, no. 6, pp. 683–695, Apr. 2023.
- [4] Zhaobo Sun, Baolin Wu, Danwei Wang, and Junyu Chen, "Event-triggered model predictive control of spacecraft formation," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 7696–7711, 2025.
- [5] Yueyao Ye, Debao Fan, and Xianfu Zhang, "Adaptive event-triggered control for uncertain strict-feedback nonlinear systems with actuator faults: a fully actuated system approach," *International Journal of Systems Science*, Feb. 2025.
- [6] Da-Ke Gu, Hao-Meng Li, and Yin-Dong Liu, "Robust adaptive control for high-order nonlinear systems with unknown upper bound uncertainties based on fully actuated system approaches and multi-objective optimization," *International Journal of Robust* and Nonlinear Control, vol. 35, no. 8, pp. 3177–3191, May 2025.
- [7] Lin Liu and Guangren Duan, "Adaptive tracking control for nonlinear fully actuated systems with input quantization," *IEEE Transactions on Circuits and Systems I-Regular Papers*, Dec. 2024.
- [8] Jiahong Ma, Baolin Wu, Yunhai Geng, and Menglei Wang, "Finite-horizon approximate optimal attitude control based on adaptive dynamic programming for ultra-low-orbit satellite," *Advances in Space Research*, vol. 75, no. 4, pp. 3856–3869, 2025.
- [9] Dongjun Wu and Guang-Ren Duan, "Further geometric and Lyapunov characterizations of incrementally stable systems on finsler manifolds," *IEEE Transactions on Automatic Control*, vol. 67, no. 10, pp. 5614–5621, Oct. 2022.
- [10] Mingyue Shi, Baolin Wu, and Jiaxu Tian, "Adaptive fault-tolerant attitude tracking control for spacecraft with input quantization," *Acta Astronautica*, vol. 218, pp. 298–306, May 2024.
- [11] Mingyue Shi, Baolin Wu, and Franco Bernelli-Zazzera, "Attitude takeover control of spacecraft based on neural network predefined-time extended state observer,"

- International Journal of Robust and Nonlinear Control, vol. 34, no. 14, pp. 9814–9836, Sep. 2024.
- [12] Zijie Lin and Baolin Wu, "Image-Based Multi spacecraft Feature Tracking Control Under Visibility Constraints With Observer," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 6, pp. 8069–8085, Dec. 2024.
- [13] Xiaoxiang Zhang, Yunhai Geng, and Baolin Wu, "Decentralized specific tracking control on se(3) for constrained multi-spacecraft systems," *Nonlinear Dynamics*, vol. 113, no. 7, pp. 6757–6780, Apr. 2025.
- [14] Bo Liu, Zhenhuan Wang, Changhong Wang, Xinyang Zhao, and Yuanxun Zheng, "Safe affine formation using terminal sliding mode control with input constraints," *IET Control Theory and Applications*, vol. 18, no. 12, pp. 1597–1608, Aug. 2024.
- [15] Zhijun Chen and Guangren Duan, "Adaptive rise-based tracking control of uncertain nonlinear systems: a fas approach," *ISA Transactions*, vol. 156, pp. 501–512, Jan. 2025.
- [16] Junyu Chen, Baolin Wu, Zhaobo Sun, and Danwei Wang, "Distributed safe trajectory optimization for large-scale spacecraft formation reconfiguration," *Acta Astronautica*, vol. 214, pp. 125–136, Jan. 2024.
- [17] Zhijun Chen and Guangren Duan, "A fully actuated system approach: desired compensation adaptive robust control for uncertain nonlinear systems," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 361, no. 9, Art. no. 106855, Jun. 2024.
- [18] Zijie Lin, Baolin Wu, and Danwei Wang, "Occlusion avoidance in image-based control of multiple spacecraft," *Journal of Guidance Control and Dynamics*, vol. 47, no. 6, pp. 1150–1166, Jun. 2024.
- [19] Guang-Ren Duan, "Circulation design for eigenvalue replacement: minimizing condition numbers," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, May 2025.
- [20] Kai-Xin Cui, Guang-Ren Duan, and Yang Cui, "Discrete-time high-order fully actuated robust stabilization control for a type of combined spacecraft subject to uncertainties," *Asian Journal of Control*, Jan. 2025.
- [21] Hong Jiang, Guangren Duan, and Mingzhe Hou, "Generalized proportional-integral extended state observer-based controller design for fully actuated systems," *ISA Transactions*, vol. 155, pp. 137–147, Dec. 2024.
- [22] Shi Wenrui, Hou Mingzhe, and Duan Guang-Ren, "Adaptive preassigned time stabilisation of uncertain second-order sub-fully actuated systems," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 703–713, Apr. 2022.
- [23] Fu-Zheng Xiao and Li-Qun Chen, "Saturated adaptive control for high-order fully actuated systems with an extended state," *International Journal of Systems Science*, vol. 55, no. 9, pp. 1947–1958, Jul. 2024.

- [24] Li Zhi, Zhang Ying, and Zhang Rui, "Prescribed error performance control for second-order fully actuated systems," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 660–669, Apr. 2022.
- [25] Renxiang Xiao, Wei Liu, Yushuai Chen, and Liang Hu, "Liv-gs: lidar-vision integration for 3d gaussian splatting slam in outdoor environments," *IEEE Robotics and Automation Letters*, vol. 10, no. 1, pp. 421–428, Jan. 2025.
- [26] Aijing Wu, Xin Huo, Qingquan Liu, and Rongmei Li, "Space-dependent oblique projection-based iterative learning control for the rejection of unknown periodic disturbances of continuously rotary systems," *IEEE Transactions on Industrial Electronics*, Jan. 2025.
- [27] Bin Zhou and Guang-Ren Duan, "On the role of zeros in the pole assignment of scalar high-order fully actuated linear systems," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 535–542, Apr. 2022.
- [28] Xindi Xu, Mingzhe Hou, and Guangren Duan, "Dynamic periodic event-triggered adaptive prescribed performance control of uncertain semi-strict feedback systems with application," *IEEE Transactions on Circuits and Systems I-Regular Papers*, Jan. 2025.
- [29] Jie Wu, Rongni Yang, Jonathon Chambers, and Chee Peng Lim, "Finite-time stability analysis and stabilization of switched affine systems via an event-triggered strategy," *IEEE Transactions on Cybernetics*, vol. 54, no. 10, pp. 6169–6179, Oct. 2024.
- [30] Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M. Guerrero, "Distributed data-driven secondary regulation for the conflict between voltage recovery and accurate current sharing in dc microgrids," *IEEE Transactions on Power Electronics*, vol. 38, no. 8, pp. 9617–9634, Aug. 2023.
- [31] Guo-Ping Liu, "Coordination of networked nonlinear multi-agents using a high-order fully actuated predictive control strategy," *IEEE-CAA Journal of Automatica Sinica*, vol. 9, no. 4, pp. 615–623, Apr. 2022.
- [32] Yudong Hu, Chen Chen, Mu Fan, and Changsheng Gao, "Dynamic analysis of rigid-flexible structures with piezoelectric actuation and control," *International Journal of Structural Stability and Dynamics*, Jul. 2024.
- [33] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Predictive control of discrete-time high-order fully actuated systems with application to air-bearing spacecraft simulator," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 360, no. 8, pp. 5910–5927, May 2023.
- [34] Wenrui Shi, Mingzhe Hou, and Guangren Duan, "Prescribed-time asymptotic tracking control of strict feedback systems with time-varying parameters and unknown control direction," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 69, no. 12, pp. 5259–5272, Dec. 2022.
- [35] Wenrui Shi, Mingzhe Hou, Guangren Duan, and Mingrui Hao, "Adaptive dynamic surface asymptotic tracking control of uncertain strict-feedback systems with guaranteed

- transient performance and accurate parameter estimation," *International Journal of Robust and Nonlinear Control*, vol. 32, no. 12, pp. 6829–6848, Aug. 2022.
- [36] Guo-Ping Liu, "Coordinated control of networked nonlinear multiagent systems using variable horizon learning predictors via cloud edge computing," *IEEE Transactions on Control of Network Systems*, vol. 9, no. 4, pp. 1975–1986, Dec. 2022.
- [37] Shu Pan, Ziyang Hong, Zhangrui Hu, Xiandong Xu, Wenjie Lu, and Liang Hu, "Russo: robust underwater slam with sonar optimization against visual degradation," *IEEE-ASME Transactions on Mechatronics*, Apr. 2025.
- [38] Fu-Zheng Xiao, and Li-Qun Chen, "Fully actuated systems in terms of quaternions for spacecraft attitude control," *Acta Astronautica*, vol. 209, pp. 1–5, Aug. 2023.
- [39] Hanlin Dong, Xuebo Yang, Zhian Kuang, and Ming Liu, "On practical terminal sliding-mode control for systems with or without mismatched uncertainty," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 359, no. 15, pp. 8084–8106, Oct. 2022.
- [40] Xiubo Wang, and Guangren Duan, "Comprehensive reconstructions and predictive control for quadrotor uav information gathering tracking missions based on fully actuated system approaches," *ISA Transactions*, vol. 147, pp. 540–553, Apr. 2024.
- [41] Wenrui Shi, Mingzhe Hou, and Guangren Duan, "A preset-trajectory-based singularity-free preassigned performance control approach," *IEEE Transactions on Automatic Control*, vol. 69, no. 9, pp. 6183–6190, Sep. 2024.
- [42] Guo-Ping Liu, "Tracking control of multi-agent systems using a networked predictive PID tracking scheme," *IEEE-CAA Journal of Automatica Sinica*, vol. 10, no. 1, pp. 216–225, Jan. 2023.
- [43] Yuzhu Chen, and Jian Chen, "Adaptive control of fuel cell-battery hybrid systems considering power sources degradation," *IEEE Transactions on Industrial Informatics*, Mar. 2025.
- [44] Lixuan Zhang, Zhe Zhang, and Huaiyuan Jiang, "Fully actuated system approach for high-order linear systems with high-order input derivatives," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2506–2517, Sep. 2024.
- [45] Guangquan Duan and Guo-Ping Liu, "Attitude and orbit optimal control of combined spacecraft via a fully-actuated system approach," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 623–640, Apr. 2022.
- [46] Guo-Ping Liu, "Predictive control of high-order fully actuated nonlinear systems with time-varying delays," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 457–470, Apr. 2022.
- [47] Shanfan Zhang and Qingshuang Zeng, "Online unmanned ground vehicle path planning based on multi-attribute intelligent reinforcement learning for mine search and rescue," *Applied Sciences-Basel*, vol. 14, no. 19, Art. no. 9127, Oct. 2024.

- [48] Yi Zeng, Zhenhuan Wang, Ligang Wu, and Hak-Keung Lam, "Finite-time fault detection for stochastic nonlinear networked control systems via interval type-2 t-s fuzzy framework," *Nonlinear Dynamics*, vol. 113, no. 13, pp. 16493–16510, Jul. 2025.
- [49] Yizheng Xiao, Youmin Gong, Jie Mei, Guangfu Ma, and Weiren Wu, "Robust optimal powered descent guidance via model predictive convex programming," *Aerospace Science and Technology*, vol. 159, Art. no. 109999, Apr. 2025.
- [50] Xindi Xu, and Mingzhe Hou, "Sampled-data-based event-triggered adaptive prescribed performance control of uncertain strict-feedback nonlinear systems," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 13, pp. 7415–7429, Sep. 2023.
- [51] Fu-Zheng Xiao and Li-Qun Chen, "Unwinding-free property of the dual-quaternion-based pose tracking controllers designed by fully actuated system approaches," *Aerospace Science and Technology*, vol. 162, Art. no. 110197, Jul. 2025.
- [52] Weihao Pan, Wenjie Zhang, and Xianfu Zhang, "Impulsive control for strict-feedback nonlinear systems based on discontinuous monitoring of system states," *Nonlinear Dynamics*, vol. 113, no. 11, pp. 13535–13551, Jun. 2025.
- [53] Xindi Xu, Zhikai Zhang, and Mingzhe Hou, "Switching periodic event-triggered global prescribed performance control of uncertain strict-feedback systems with sensor faults," *IET Control Theory and Applications*, vol. 18, no. 11, pp. 1445–1460, Jul. 2024.
- [54] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Proportional integral predictive control of high-order fully actuated networked multiagent systems with communication delays," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 2, pp. 801–812, Feb. 2023.
- [55] Yuzhuo Zhao, Dan Ma, and Hongwei Ma, "Adaptive neural network control of thermoacoustic instability in rijke tube: a fully actuated system approach," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 586–603, Apr. 2022.
- [56] Da-Wei Zhang, and Guo-Ping Liu, "Predictive control for networked high-order fully actuated systems subject to communication delays and external disturbances," *ISA Transactions*, vol. 139, pp. 425–435, Aug. 2023.
- [57] Yi Wang and Yi Zhao, "Synchronization of directed higher-order networks via pinning control," *Chaos Solitons & Fractals*, vol. 185, Art. no. 115062, Aug. 2024.
- [58] Xiao Fuzheng and Chen Liqun, "Attitude control of spherical liquid-filled spacecraft based on high-order fully actuated system approaches," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 471–480, Apr. 2022.
- [59] Wang Wenna, Ding Weili, Hua Changchun, Zhang Heng, Feng Haibing, and Yao Yao, "A digital twin for 3d path planning of large-span curved-arm gantry robot," *Robotics and Computer-Integrated Manufacturing*, vol. 76, Art. no. 102330, Aug. 2022.
- [60] Guang-Ren Duan, "Constrained unidirectionally connected fass: part i. models," *International Journal of Systems Science*, Mar. 2025.

- [61] Fu-Zheng Xiao, He Ba, Mu-Qing Niu, and Li-Qun Chen, "Observer-based robust attitude control of liquid-filled flexible spacecraft in a fully actuated system framework," *Journal of Aerospace Engineering*, vol. 38, no. 3, Art. no. 4025016, May 2025.
- [62] Siru Li, Ziyang Hong, Yushuai Chen, Liang Hu, and Jiahu Qin, "Get it for free: radar segmentation without expert labels and its application in odometry and localization," *IEEE Robotics and Automation Letters*, vol. 10, no. 3, pp. 2678–2685, Mar. 2025.
- [63] Shiyu Zhang and Guangren Duan, "Robust adaptive control of uncertain fully actuated systems with unknown parameters and perturbed input matrices," *IEEE Transactions on Cybernetics*, vol. 55, no. 2, pp. 927–938, Feb. 2025.
- [64] Yi Yu, Guo-Ping Liu, Yi Huang, and Josep M. Guerrero, "Distributed learning-based secondary control for islanded dc microgrids: a high-order fully actuated system approach," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 3, pp. 2990–3000, Mar. 2024.
- [65] Xueqing Liu, Maoyin Chen, Li Sheng, and Donghua Zhou, "Adaptive fault-tolerant control for nonlinear high-order fully-actuated systems," *Neurocomputing*, vol. 495, pp. 75–85, Jul. 2022.
- [66] Hong Jiang, Guangren Duan, and Mingzhe Hou, "Robust adaptive control based on reduced-order unknown input observer for fully actuated systems with uncertainties," IEEE Transactions on Circuits and Systems I-Regular Papers, Apr. 2025.
- [67] Mingzhe Hou, Wenrui Shi, Leyan Fang, and Guangren Duan, "Adaptive dynamic surface control of high-order strict feedback nonlinear systems with parameter estimations," *Science China-Information Sciences*, vol. 66, no. 5, Art. no. 159203, May 2023.
- [68] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Coordinated control of high-order fully actuated multiagent systems and its application: a predictive control strategy," *IEEE-ASME Transactions on Mechatronics*, vol. 27, no. 6, pp. 4362–4372, Dec. 2022.
- [69] Yi Huang, Guo-Ping Liu, Yi Yu, and Wenshan Hu, "Data-driven distributed predictive tracking control for heterogeneous nonlinear multiagent systems with communication delays," *IEEE Transactions on Automatic Control*, vol. 69, no. 7, pp. 4786–4792, Jul. 2024.
- [70] Yi Yu, Guo-Ping Liu, and Wenshan Hu, "Coordinated distributed predictive control for voltage regulation of dc microgrids with communication delays and data loss," *IEEE Transactions on Smart Grid*, vol. 14, no. 3, pp. 1708–1722, May 2023.
- [71] Jian-Guo Cui, Tianzhi Yang, Mu-Qing Niu, and Li-Qun Chen, "Tunable roton-like dispersion relation with parametric excitations," *Journal of Applied Mechanics-Transactions of the ASME*, vol. 89, no. 11, Art. no. 111005, Nov. 2022.
- [72] Yi Yu, Guo-Ping Liu, and Wenshan Hu, "Security tracking control for discrete-time stochastic systems subject to cyber attacks," *ISA Transactions*, vol. 127, pp. 133–145, Aug. 2022.

- [73] Minghui Chu, Xin Huo, and Kemao Ma, "Conflict-averse multi-objective extremum seeking and its application in wastewater treatment processes," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 13175–13186, 2025.
- [74] Shiyu Zhang and Guangren Duan, "Fully actuated system approach to robust control of uncertain multi-order sub-fully actuated systems," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 14, pp. 9697–9715, Sep. 2024.
- [75] Yi Yu, Guo-Ping Liu, and Wenshan Hu, "Learning-based secure control for multichannel networked systems under smart attacks," *IEEE Transactions on Industrial Electronics*, vol. 70, no. 7, pp. 7183–7193, Jul. 2023.
- [76] Kefan Xu, Muqing Niu, Yewei Zhang, and Liqun Chen, "An active high-static-low-dynamic-stiffness vibration isolator with adjustable buckling beams: theory and experiment," *Applied Mathematics and Mechanics-English Edition*, vol. 45, no. 3, pp. 425–440, Mar. 2024.
- [77] Da-Wei Zhang and Guo-Ping Liu, "A high-order fully actuated predictive control approach for spacecraft flying-around," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2556–2569, Sep. 2024.
- [78] Jian Xue, Hong-Wei Ma, and Li-Qun Chen, "Vibration localization and reduction in plates via lightweight soft acoustic black hole and vibration absorbers," *Acta Mechanica Sinica*, vol. 41, no. 6, Art. no. 524141, Jun. 2025.
- [79] Hu Tang, Jian Chen, Yu Long, and Zaisheng Wang, "Joint estimation of soc and soh for lithium-ion batteries via adaptive variable structure observers," *IEEE Transactions on Industrial Electronics*, Mar. 2025.
- [80] Guang-Ren Duan, "Fully actuated system approach for control: an overview," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7285–7306, Dec. 2024.
- [81] Shengwang Ye, Guo-Ping Liu, Wenshan Hu, Yong Wu, Zhuo Fan, and Haoyu Li, "Tracking control based on proportional resonant controller for electro-hydraulic systems with input delay," *IET Control Theory and Applications*, vol. 17, no. 18, pp. 2496–2505, Dec. 2023.
- [82] Jian Xue and Li-Qun Chen, "A semi-analytical model for dynamic analysis of thin plates with plate-type resonators," *Acta Mechanica*, vol. 234, no. 6, pp. 2315–2329, Jun. 2023.
- [83] Yongqiang Xiao, Guangbin Cai, and Mingrui Hao, "Adaptive dynamic surface control for high-order strict-feedback systems with input saturation: a fully actuated system approach," *IET Control Theory and Applications*, vol. 19, no. 1, Art. no. e70010, Jan. 2025.
- [84] Yunsi Yang, Jun-e Feng, and Lei Jia, "Stabilisation of multi-agent systems over finite fields based on high-order fully actuated system approaches," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2478–2493, Sep. 2024.

- [85] Da-Ke Gu, Li-Song Sun, and Yin-Dong Liu, "Parametric design of functional observer for second-order linear time-varying systems," *Asian Journal of Control*, vol. 25, no. 2, pp. 950–960, Mar. 2023.
- [86] Yaohui An, Yimin Fan, Kefan Xu, Yuhao Chen, Yewei Zhang, and Liqun Chen, "Electromagnetic three-dimensional vibration energy harvester based on an oblique cross-spring vibrator structure," *Science China-Technological Sciences*, vol. 68, no. 1, Art. no. 1120104, Jan. 2025.
- [87] Da-Wei Zhang, Guo-Ping Liu, and Lei Cao, "Secure predictive coordinated control of high-order fully actuated networked multiagent systems under random dos attacks," *IEEE Transactions on Cybernetics*, vol. 54, no. 4, pp. 2668–2679, Apr. 2024.
- [88] Li-Qun Chen and Yimin Fan, "Internal resonance vibration-based energy harvesting," *Nonlinear Dynamics*, vol. 111, no. 13, pp. 11703–11727, Jul. 2023.
- [89] Zhengping Fan, Xiaojun Tan, Wanquan Liu, and Guanrong Chen, "Asymptotically consistent estimation of preferential attachments in growing networks," *IEEE Transactions on Network Science and Engineering*, vol. 10, no. 2, pp. 733–741, Mar. 2023.
- [90] Yi Huang, Guo-Ping Liu, Yi Yu, and Wenshan Hu, "Constrained networked predictive control for nonlinear systems using a high-order fully actuated system approach," *IEEE-CAA Journal of Automatica Sinica*, vol. 12, no. 2, pp. 478–480, Feb. 2025.
- [91] Ke-Fan Xu, Mu-Qing Niu, Ye -Wei Zhang, Cun-Ying Meng, and Li-Qun Chen, "A nonlinear energy sink enhanced by active varying stiffness for spacecraft structure: theory, simulation, and experiment," *Mechanical Systems and Signal Processing*, vol. 204, Art. no. 110787, Dec. 2023.
- [92] Da-Ke Gu, Sheng Duan, and Yin-Dong Liu, "A parametric design method of observer-based state feedback controller for quasi-linear systems," *IET Control Theory and Applications*, vol. 16, no. 16, pp. 1708–1717, Nov. 2022.
- [93] Lei Cao, Guo-Ping Liu, and Da -Wei Zhang, "Cloud-based predictive formation control of networked multi-agent system and its application to air bearing spacecraft simulators," *ISA Transactions*, vol. 138, pp. 696–704, Jul. 2023.
- [94] Jian Xue, Hong-Wei Ma, and Li-Qun Chen, "Vibration localization and reduction of double-plate structures," *Aerospace Science and Technology*, vol. 152, Art. no. 109340, Sep. 2024.
- [95] Da-Ke Gu, Sheng Duan, Rui-Yuan Wang, and Yin-Dong Liu, "Parametric design method for partial eigenstructure assignment of second-order linear systems via observer-based state feedback," *European Journal of Control*, vol. 71, Art. no. 100801, May 2023.
- [96] Le Wang, Ruiyun Qi, and Bin Jiang, "Adaptive fault-tolerant optimal control for hypersonic vehicles with state constrains based on adaptive dynamic programming,"

- *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 361, no. 8, Art. no. 106833, May 2024.
- [97] Ji-Ren Xue, Ye-Wei Zhang, Mu-Qing Niu, Walter Lacarbonara, and Li-Qun Chen, "Passive control of a composite laminated truncated conical shell via embedded nitinol-steel wire ropes," *Mechanical Systems and Signal Processing*, vol. 215, Art. no. 111282, Jun. 2024.
- [98] Da-Wei Zhang and Guo-Ping Liu, "Predictive sliding-mode control of networked high-order fully actuated systems under random deception attacks," *Science China-Information Sciences*, vol. 66, no. 9, Art. no. 190204, Sep. 2023.
- [99] Shunli Li, Bin Zhou, and Guangren Duan, "Performance recovery for a class of nonlinear systems by a parametric Lyapunov equation based observer," *International Journal of Control*, Feb. 2025.
- [100] Yi Huang, Guo-Ping Liu, and Wenshan Hu, "Priori-guided and data-driven hybrid model for wind power forecasting," *ISA Transactions*, vol. 134, pp. 380–395, Mar. 2023.
- [101] Da-Ke Gu, Shuo Wang, Quan-Zhi Liu, and Jun Zhao, "Parametric design of reduced-order functional observers for linear time-varying delay systems," *Measurement & Control*, vol. 55, no. 7-8, pp. 795–806, Jul. 2022.
- [102] Yi Yu, Guo-Ping Liu, Xingwei Zhou, and Wenshan Hu, "Blockchain protocol-based predictive secure control for networked systems," *IEEE Transactions on Industrial Electronics*, vol. 70, no. 1, pp. 783–792, Jan. 2023.
- [103] Guang-Ren Duan, "Constrained unidirectionally connected fass: part iii. applications," *International Journal of Systems Science*, Feb. 2025.
- [104] Gang Li, Xin Ma, and Yibin Li, "Adaptive sliding mode control based on time-delay estimation for underactuated 7-dof tower crane," *IEEE Transactions on Systems Man Cybernetics-Systems*, vol. 55, no. 3, pp. 2277–2288, Mar. 2025.
- [105] Zengrui Yuan, Mu-Qing Niu, Jian Zang, Hongtu Ma, Liulin Huang, Yewei Zhang, and Li-Qun Chen, "Integration of acoustic emission and digital image correlation for damage of composite panels with different layup sequences," *Applied Acoustics*, vol. 231, Art. no. 110476, Mar. 2025.
- [106] Yu Liu, Zhao-Yan Li, Yajun Gao, and Guang-Ren Duan, "On transforming commensurate time-delay systems with multi-inputs to fully actuated systems via differential flatness," *International Journal of Systems Science*, Dec. 2024.
- [107] Run Li, Ming Liu, Johannes Teutsch, and Dirk Wollherr, "Constraint trajectory planning for redundant space robot," *Neural Computing & Applications*, vol. 35, no. 34, pp. 24243–24258, Dec. 2023.
- [108] Xiaoxuan Wu, Jian Chen, Dehui Wang, Ke Xu, Mingding Shao, Yong Wang, and Yu Long, "Filter-based co-estimation of state-of-charge and state-of-health for lithium-ion batteries," *IEEE Transactions on Industrial Electronics*, May 2025.

- [109] Jianrui Du, Kaidi Wang, Yingjun Fan, Ganghua Lai, and Yushu Yu, "High-fidelity integrated aerial platform simulation for control, perception, and learning," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 13662–13683, 2025.
- [110] Le Wang, Ruiyun Qi, and Bin Jiang, "Adaptive fault-tolerant control for non-minimum phase hypersonic vehicles based on adaptive dynamic programming," *Chinese Journal of Aeronautics*, vol. 37, no. 3, pp. 290–311, Mar. 2024.
- [111] Leyan Fang, Mingzhe Hou, Guangbin Cai, and Guangren Duan, "Adaptive iterative learning prescribed performance control of uncertain strict-feedback systems with improved parameter estimation," *IEEE Transactions on Circuits and Systems I-Regular Papers*, Mar. 2025.
- [112] Yiwen Cong, Gang Li, Jifu Li, Jianyan Tian, and Xin Ma, "Time-delay-based sliding mode tracking control for cooperative dual marine lifting system subject to sea wave disturbances," *Actuators*, vol. 13, no. 12, Art. no. 491, Dec. 2024.
- [113] Da-Wei Zhang and Guo-Ping Liu, "Predictive sliding-mode control for networked high-order fully actuated multiagents under random deception attacks," *IEEE Transactions on Systems Man Cybernetics-Systems*, vol. 54, no. 1, pp. 484–496, Jan. 2024.
- [114] Chuanguo Chi, Dong Lin, Clara-Mihaela Ionescu, and Guo-Ping Liu, "Distributed sliding-mode cloud predictive formation control of networked multi-agent systems with application to air-bearing spacecraft simulators," *Control Engineering Practice*, vol. 137, Art. no. 105580, Aug. 2023.
- [115] Da-Ke Gu, Li-Song Sun, and Yin-Dong Liu, "Functional interval observer design for linear time-varying systems with additive disturbances," *Transactions of the Institute of Measurement and Control*, vol. 45, no. 4, pp. 736–746, Feb. 2023.
- [116] Ming Liu, Qing Xia, and Shi Qiu, "A new data-driven framework for progressive anomaly event alerts in spacecraft based on reconstruction discrepancy," *Advances in Space Research*, vol. 74, no. 11, pp. 5890–5905, Dec. 2024.
- [117] Yi Yu, Guo-Ping Liu, Yi Huang, and Wenshan Hu, "Optimal resilient tracking control for networked systems with multichannels under attacks," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 3, pp. 3001–3011, Mar. 2024.
- [118] Jian-Guo Cui, Mu-Qing Niu, Li-Qun Chen, and Tianzhi Yang, "Asymmetric propagation of acoustic waves in a conical granular chain," *Communications in Nonlinear Science and Numerical Simulation*, vol. 116, Art. no. 106885, Jan. 2023.
- [119] Shunli Li, Bin Zhou, Yang Shi, and Guangren Duan, "Prescribed-time semi-global control for a class of nonlinear uncertain systems by linear time-varying feedback," *IEEE Transactions on Cybernetics*, vol. 55, no. 3, pp. 1172–1182, Mar. 2025.
- [120] Da-Ke Gu, Zhi-Jing Guo, Rui-Yuan Wang, and Yin-Dong Liu, "Partial eigenstructure assignment for linear time-invariant systems via dynamic compensator," *Mathematics*, vol. 11, no. 13, Art. no. 2866, Jul. 2023.

- [121] Lanfeng Deng, Mu-Qing Niu, Yimin Fan, and Li-Qun Chen, "Efficient mesh updating scheme for the ale corotational formulation of an arbitrarily curved beam," *Acta Mechanica Solida Sinica*, Jun. 2023.
- [122] Lei Cao, Da-Wei Zhang, Clara Mihaela Ionescu, and Guo-Ping Liu, "A distributed predictive formation control strategy for cyber-physical multi-agent systems under communication constraints," *Information Sciences*, vol. 641, Art. no. 119092, Sep. 2023.
- [123] Ji-Ren Xue, Ye-Wei Zhang, Mu-Qing Niu, and Li-Qun Chen, "Vibration reduction in a composite laminated cylindrical shell via embedded nitinol-steel wire ropes," *Nonlinear Dynamics*, vol. 111, no. 8, pp. 7181–7197, Apr. 2023.
- [124] Da-Ke Gu, Rui-Yuan Wang, and Yin-Dong Liu, "Partial eigenstructure assignment for descriptor high-order linear systems via proportional plus derivative state feedback: a parametric approach," *Transactions of the Institute of Measurement and Control*, vol. 45, no. 12, pp. 2324–2339, Aug. 2023.
- [125] Enyou Wang, Shi Qiu, Ming Liu, and Xibin Cao, "Event-triggered adaptive terminal sliding mode tracking control for drag-free spacecraft inner-formation with full state constraints," *Aerospace Science and Technology*, vol. 124, Art. no. 107524, May 2022.
- [126] Wenju Han, Muqing Niu, Jianguo Cui, Zeqi Lu, and Liqun Chen, "A low-frequency vibration isolator with cross-ring structure," *International Journal of Structural Stability and Dynamics*, vol. 24, no. 18, Art. no. 2450203, Sep. 2024.
- [127] Lanfeng Deng, Mu-Qing Niu, Xin Yang, Yimin Fan, and Li-Qun Chen, "An arbitrary lagrangian-eulerian corotational formulation for nonlinear dynamic analysis of arbitrarily curved viscoelastic beams," *Finite Elements in Analysis and Design*, vol. 244, Art. no. 104303, Feb. 2025.
- [128] Ya-Jun Gao and Guang-Ren Duan, "Robust model reference tracking control for high-order descriptor linear systems subject to parameter uncertainties," *IET Control Theory and Applications*, vol. 18, no. 4, pp. 479–494, Mar. 2024.
- [129] Yi Yu, Guo-Ping Liu, Yi Huang, and Peng Shi, "Fully actuated system-based modeling and control of dc microgrids with inductive tie lines: a predictive strategy," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 2, pp. 1990–2000, Feb. 2025.
- [130] Ai-Guo Wu, Jie Zhang, and Youzhou Ji, "A fully actuated system approach for stabilization of discrete-time multiple-input nonlinear systems with distinct input delays," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 670–687, Apr. 2022.
- [131] Yongqiang Xiao, Guangbin Cai, and Guangren Duan, "Practical prescribed-time control for high-order strict-feedback systems based on fully actuated system approach," *IEEE Transactions on Circuits and Systems I-Regular Papers*, Apr. 2025.
- [132] Hui-Jie Sun, Yu-Yao Wu, and Jinxiu Zhang, "A distributed predefined-time attitude coordination control scheme for multiple rigid spacecraft," *Aerospace Science and Technology*, vol. 133, Art. no. 108134, Feb. 2023.

- [133] Guang-Ren Duan, "Brockett's first example: an fas approach treatment," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 441–456, Apr. 2022.
- [134] Bin Zhou, Jiacheng Dong, and Guangbin Cai, "Normal forms of linear time-varying systems with applications to output-feedback stabilization and tracking," *IEEE Transactions on Cybernetics*, vol. 55, no. 6, pp. 2671–2683, Jun. 2025.
- [135] Shiyi Li, Kerun Liu, Ming Liu, and Xibin Cao, "Neuro-adaptive prescribed performance control for spacecraft rendezvous based on the fully-actuated system approach," *IET Control Theory and Applications*, vol. 18, no. 14, pp. 1868–1876, Sep. 2024.
- [136] Wen-Yong Zhang, Mu-Qing Niu, Lan-Feng Deng, Yimin Fan, and Li-Qun Chen, "Dynamic analysis and optimization on passive/active vibration reduction of a beam structure with distributed smart foams," *International Journal of Structural Stability and Dynamics*, vol. 25, no. 6, Mar. 2025.
- [137] Fuxing Yao, Ai-Guo Wu, Mehdi Golestani, Derong Liu, Guang-Ren Duan, and He Kong, "Adaptive tracking control for underactuated double pendulum overhead cranes with variable cable length," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7728–7741, Dec. 2024.
- [138] Shengwang Ye, Guo-Ping Liu, Wenshan Hu, and Zhongcheng Lei, "Design and implementation of a novel compact laboratory for web-based multiagent system simulation and experimentation," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 3, pp. 4029–4038, Mar. 2024.
- [139] Ming Liu, Qiuhong Liu, Lixian Zhang, Guangren Duan, and Xibin Cao, "Adaptive dynamic programming-based fault-tolerant attitude control for flexible spacecraft with limited wireless resources," *Science China-Information Sciences*, vol. 66, no. 10, Art. no. 202201, Oct. 2023.
- [140] Yuan Lu, Jingping Xia, Lihua Shen, and Ke Zhang, "Predictive control strategy based fault-tolerant formation control for fully actuated multi-agent systems," *Circuits Systems and Signal Processing*, May 2025.
- [141] Chengfei Yue, Ming Lu, Xiaozhe Ju, Xueqin Chen, and Qiang Shen, "Hierarchical attitude stabilization controller design and analysis for underactuated spacecraft on so(3)," *Aerospace Science and Technology*, vol. 155, Art. no. 109535, Dec. 2024.
- [142] Weizhen Liu, Guangren Duan, and Dake Gu, "Parametric control of quasi-linear second-order systems with partitioned eigenstructure assignment by output feedback," *Science China-Information Sciences*, vol. 66, no. 4, Art. no. 142201, Apr. 2023.
- [143] Yifeng Wang, Yi Zhao, and Xinyu Han, "Optimal transport guided gan with unpaired data for inertial signal enhancement," *Physica A-Statistical Mechanics and Its Applications*, vol. 670, Art. no. 130620, Jul. 2025.

- [144] Shengwang Ye, Guo-Ping Liu, Wenshan Hu, and Zhongcheng Lei, "Design and implementation of trajectory planning for a high-order bounded reference," *Control Engineering Practice*, vol. 144, Art. no. 105794, Mar. 2024.
- [145] He Ba, Mu-Qing Niu, and Li-Qun Chen, "An adjustable stiffness vibration isolator implemented by a semicircular ring," *Mechanical Systems and Signal Processing*, vol. 222, Art. no. 111797, Jan. 2025.
- [146] Zebin Chen, Xuesong Chen, and Hui-Jie Sun, "Some convergence properties of two iterative algorithms for discrete periodic Lyapunov equations," *IEEE Transactions on Automatic Control*, vol. 68, no. 11, pp. 6751–6757, Nov. 2023.
- [147] Wenrui Shi, Christodoulos Keliris, Mingzhe Hou, Guangren Duan, and Marios M. Polycarpou, "Preset-trajectory-based tracking control of a class of mismatched uncertain systems," *IEEE Transactions on Automatic Control*, vol. 70, no. 1, pp. 526–533, Jan. 2025.
- [148] Guang-Ren Duan, "Robust stabilization of time-varying nonlinear systems with time-varying delays: a fully actuated system approach," *IEEE Transactions on Cybernetics*, vol. 53, no. 12, pp. 7455–7468, Dec. 2023.
- [149] Liwei Xue, Wenshan Hu, and Guo-Ping Liu, "Learning with remote laboratories: designing control algorithms with both block diagrams and customized c code schemes," *Computer Applications in Engineering Education*, vol. 30, no. 5, pp. 1561–1576, Sep. 2022.
- [150] Shuai Wang and Wanquan Liu, "Enhancing the robustness of influential seeds towards structural failures on competitive networks via a memetic algorithm," *Knowledge-Based Systems*, vol. 275, Art. no. 110677, Sep. 2023.
- [151] Zhenyu Feng, Jiawei Wang, Neng Wan, and Huayi Li, "Distributed adaptive nn-based attitude synchronous tracking control with input saturation," *Electronics*, vol. 11, no. 24, Art. no. 4093, Dec. 2022.
- [152] Zhaochun Ding, Mingyang Cui, Jiang Wu, Wentao Wei, Xuewen Rong, and Yibin Li, "Development of an untethered self-moving piezoelectric actuator with load-carriable, fast, and precise movement driven by piezoelectric stack plates," *IEEE Transactions on Industrial Electronics*, May 2025.
- [153] Guangtao Ran, Yanning Guo, Youmin Gong, Rathinasamy Sakthivel, Jian Liu, and Chunsong Han, "Dynamic event-triggered filtering for nonlinear mjss with application to tunnel diode circuits," *IEEE Transactions on Circuits and Systems II-Express Briefs*, vol. 71, no. 7, pp. 3388–3392, Jul. 2024.
- [154] Boyu Yang, Xueqin Chen, Fan Wu, and Ming Liu, "L1-atsxkf-based state and bias estimation for non-linear systems with non-gaussian process noise," *IET Control Theory and Applications*, vol. 19, no. 1, Jan. 2025.

- [155] Wenrui Shi, Christodoulos Keliris, Mingzhe Hou, and Marios M. Polycarpou, "Adaptive prescribed-time parameter estimation and control for a class of uncertain nonlinear systems," *Systems & Control Letters*, vol. 192, Art. no. 105906, Oct. 2024.
- [156] Shiyi Li, Kerun Liu, and Ming Liu, "Adaptive dynamic programming-based spacecraft attitude control under a tube-based framework," *Electronics*, vol. 13, no. 22, Art. no. 4575, Nov. 2024.
- [157] Zuohang Hu, Xiangyang Xing, Hongliang Zhang, and Frede Blaabjerg, "Modeling and suppression method of low order harmonics for three-level inverter with small capacitance value," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 1, pp. 470–480, Jan. 2025.
- [158] Guang-Ren Duan, "A fas approach for stabilization of generalized chained forms: part 2. continuous control laws," *Science China-Information Sciences*, vol. 67, no. 3, Art. no. 132201, Mar. 2024.
- [159] Jian Xue, Mu-Qing Niu, Lan-Feng Deng, and Li-Qun Chen, "Free and forced vibrations of a periodically stiffened plate with functionally graded material," *Archive of Applied Mechanics*, vol. 92, no. 11, pp. 3229–3247, Nov. 2022.
- [160] Mu-Qing Niu and Li-Qun Chen, "Analysis of a bio-inspired vibration isolator with a compliant limb-like structure," *Mechanical Systems and Signal Processing*, vol. 179, Art. no. 109348, Nov. 2022.
- [161] Dake Gu and Shuo Wang, "A high-order fully actuated system approach for a class of nonlinear systems," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 714–730, Apr. 2022.
- [162] Yuzhong Wang, Guangren Duan, and Ping Li, "Event-based neural networks adaptive control of nonlinear systems: a fully actuated system approach," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 71, no. 9, pp. 4211–4221, Sep. 2024.
- [163] Lanfeng Deng, Mu-Qing Niu, Jian Xue, and Li-Qun Chen, "An ale formulation for the geometric nonlinear dynamic analysis of planar curved beams subjected to moving loads," *Mechanical Systems and Signal Processing*, vol. 184, Art. no. 109670, Feb. 2023.
- [164] Kang-Kang Zhang, Xuefei Yang, and Kai Zhang, "Smooth finite-dimensional time-varying feedback for chained nonholonomic systems with distributed input delays," *Automatica*, vol. 177, Art. no. 112307, Jul. 2025.
- [165] Debao Fan, Xianfu Zhang, Gang Feng, and Hanfeng Li, "Global regulation of feedforward nonlinear systems: a logic-based switching gain approach," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7343–7353, Dec. 2024.
- [166] Yongqiang Xiao, Guangbin Cai, and Guangren Duan, "High-order adaptive dynamic surface control for output-constrained non-linear systems based on fully actuated system approach," *International Journal of Systems Science*, vol. 55, no. 3, pp. 482–498, Feb. 2024.

- [167] Yifeng Wang, Jiangtao Xu, and Yi Zhao, "Wavelet encoding network for inertial signal enhancement via feature supervision," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 11, pp. 12924–12934, Nov. 2024.
- [168] Xingwei Zhou, Guo-Ping Liu, Wenshan Hu, and Zhongcheng Lei, "M2plab: a pocket laboratory with unified and flexible framework applied in engineering education," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 3, pp. 3208–3218, Mar. 2024.
- [169] Guang-Ren Duan, "Stabilization via fully actuated system approach: a case study," *Journal of Systems Science & Complexity*, vol. 35, no. 3, pp. 731–747, Jun. 2022.
- [170] Jun-Jie Huang, Mu-Qing Niu, Yimin Fan, and Li-Qun Chen, "A compliant helical structure to amplify inertia for nonlinear vibration absorption," *Engineering Structures*, vol. 322, Art. no. 119078, Jan. 2025.
- [171] Guangren Duan, "Fully actuated system approaches for continuous-time delay systems: part 2. systems with input delays," *Science China-Information Sciences*, vol. 66, no. 2, Art. no. 122201, Feb. 2023.
- [172] Xueqing Liu, Donghua Zhou, and Li Sheng, "Active fault-tolerant control for stochastic fully actuated systems with local faults," *IEEE Transactions on Industrial Informatics*, Mar. 2025.
- [173] Guangbin Cai, Yongqiang Xiao, Hao Wei, Tong Wu, and Mingzhe Hou, "Robust adaptive dynamic surface control of high-order strict feedback systems based on fully actuated system approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2464–2477, Sep. 2024.
- [174] Ke-Fan Xu, Ye-Wei Zhang, Mu-Qing Niu, and Li-Qun Chen, "Dynamics analysis of a variable stiffness tuned mass damper enhanced by an inerter," *Applied Sciences-Basel*, vol. 13, no. 3, Art. no. 1404, Feb. 2023.
- [175] Zhongcheng Lei, Hong Zhou, Wenshan Hu, and Guo-Ping Liu, "Impact of covid-19 pandemic on engineering education: case study with the online laboratory ncslab," *International Journal of Engineering Education*, vol. 38, no. 5, pp. 1505–1512, 2022.
- [176] Weizhen Liu, Guangren Duan, and Dake Gu, "Model reference control in quasi-linear systems with a parametric feed-forward compensator and state-feedback stabilization controller," *Transactions of the Institute of Measurement and Control*, vol. 44, no. 7, pp. 1518–1527, Apr. 2022.
- [177] Ai-Guo Wu, "A fundamental matrix based approach to design predictor-based control laws for discrete-time systems with state and input delays," *Automatica*, vol. 155, Art. no. 111145, Sep. 2023.
- [178] Ming Liu, Qiuhong Liu, Chengfei Yue, and Huayi Li, "Prescribed performance fault-tolerant attitude control for flexible spacecraft under limited communication network," *IET Control Theory and Applications*, vol. 17, no. 11, pp. 1566–1577, Jul. 2023.

- [179] Guangren Duan, "Fully actuated system approaches for continuous-time delay systems: part 1. systems with state delays only," *Science China-Information Sciences*, vol. 66, no. 1, Art. no. 112201, Jan. 2023.
- [180] Guangren Duan, "Discrete-time delay systems: part 2. sub-fully actuated case," *Science China-Information Sciences*, vol. 65, no. 9, Art. no. 192201, Sep. 2022.
- [181] Guang-Ren Duan, "Constrained unidirectionally connected fass: part ii. sub-stabilisation," *International Journal of Systems Science*, Apr. 2025.
- [182] Guo-Ping Liu, "Digital-twin predictive control of nonlinear systems with time delays, unknown dynamics, and communication delays," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7198–7210, Dec. 2024.
- [183] Hui-Jie Sun, Yu-Yao Wu, and Jinxiu Zhang, "Attitude synchronization control for multiple spacecraft: a preassigned finite-time scheme," *Advances in Space Research*, vol. 73, no. 12, pp. 6094–6110, Jun. 2024.
- [184] Guang-Ren Duan, "Substability and substabilization: control of subfully actuated systems," *IEEE Transactions on Cybernetics*, vol. 53, no. 11, pp. 7309–7322, Nov. 2023.
- [185] Ning Pengju, Hua Changchun, and Meng Rui, "Adaptive control for a class of nonlinear time-delay system based on the fully actuated system approaches," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 522–534, Apr. 2022.
- [186] Aijing Wu, Xin Huo, Qingquan Liu, and Jie Ma, "Circularly orthogonal projection-based iterative learning control for rejecting spatially cyclic disturbances," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 7, pp. 7631–7640, Jul. 2024.
- [187] Jie Wu, Rongni Yang, Jian Sun, and Yanzheng Zhu, "Event-triggered finite-time stabilization of nonlinear switched affine systems under mode-dependent and state-dependent switchings," *Control Engineering Practice*, vol. 138, Art. no. 105602, Sep. 2023.
- [188] Yan Wang, Mingsong Lv, Zhiying Wu, Yunjian Xu, Nan Guan, and Rong Su, "Risk-constrained lqr design framework for non-gaussian interconnected systems defined over a digraph," *IEEE Transactions on Automatic Control*, vol. 70, no. 5, pp. 3510–3517, May 2025.
- [189] Xingwei Zhou, Guo-Ping Liu, Yueqin Yin, Wenshan Hu, Zhongcheng Lei, and Shiqi Guan, "Developing and utilizing a distributed experimental platform for advanced research in m2plab," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 2, pp. 1744–1753, Feb. 2025.
- [190] Wenjie Lu and Manman Hu, "Morphology transformation of underwater self-reconfigurable modular robots via heterogeneous decomposition and distributed control," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 10698–10712, 2025.

- [191] Ai-Guo Wu and Yuan Meng, "Data-driven adaptive optimal control for discrete-time periodic systems," *International Journal of Robust and Nonlinear Control*, May 2024.
- [192] Yu-Yao Wu, Wanquan Liu, Jinxiu Zhang, Xuefang Li, and Ping Wang, "Tunable predefined-time attitude tracking control for rigid spacecraft," *IEEE Transactions on Circuits and Systems II-Express Briefs*, vol. 71, no. 9, pp. 4271–4275, Sep. 2024.
- [193] Guangtai Tian and Guangren Duan, "Robust model reference tracking for uncertain second-order nonlinear systems with application to robot manipulator," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 3, pp. 1750–1771, Feb. 2023.
- [194] Lipeng Wang, Ranxu Zhang, Jiang Wu, Chengqi Pan, Xiaoming Yue, Qiang Zhang, and Yibin Li, "Assessment of mechanical-loss property of 3d printing metal and its application to ultrasonic transducers as vibrating bodies," *Ultrasonics Sonochemistry*, vol. 117, Art. no. 107356, Jun. 2025.
- [195] Zhongcheng Lei, Hong Zhou, Wenshan Hu, and Guo-Ping Liu, "Toward an international platform: a web-based multi-language system for remote and virtual laboratories using react framework," *Heliyon*, vol. 8, no. 10, Oct. 2022.
- [196] Jiao Wu, Shi Qiu, Ming Liu, Huayi Li, and Yuan Liu, "Finite-time velocity-free relative position coordinated control of spacecraft formation with dynamic event triggered transmission," *Mathematical Biosciences and Engineering*, vol. 19, no. 7, pp. 6883–6906, 2022.
- [197] Haotian Zhao, Shi Qiu, Ming Liu, and Xibin Cao, "Satellite anomaly detection based on reconstruction discrepancy theory utilizing a new dual-branch reconstruction model," *Science China-Technological Sciences*, vol. 67, no. 10, pp. 3294–3307, Oct. 2024.
- [198] Wei Chen, Lu Liu, and Guo-Ping Liu, "Privacy-preserving distributed economic dispatch of microgrids: a dynamic quantization-based consensus scheme with homomorphic encryption," *IEEE Transactions on Smart Grid*, vol. 14, no. 1, pp. 701–713, Jan. 2023.
- [199] Yihao Wang and Kang-Kang Zhang, "Finite-time semi-global stabilisation of polynomial growth nonlinear systems by linear time-varying feedback," *International Journal of Control*, vol. 98, no. 1, pp. 42–55, Jan. 2025.
- [200] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "High-order command filtered adaptive backstepping control for second- and high-order fully actuated strict-feedback systems," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 360, no. 6, pp. 3989–4015, Apr. 2023.
- [201] Tianyi Zhao and Guang-Ren Duan, "Fully actuated system approach to attitude control of flexible spacecraft with nonlinear time-varying inertia," *Science China-Information Sciences*, vol. 65, no. 11, Art. no. 212201, Nov. 2022.
- [202] Enyou Wang, Ming Liu, Shi Qiu, Yang Yu, and Xibin Cao, "Event-triggered prescribed performance robust collision-free capturing control for drag-free spacecraft

- system," *IET Control Theory and Applications*, vol. 16, no. 17, pp. 1792–1806, Nov. 2022.
- [203] Guang-Ren Duan, "Circulation design for eigenvalue replacement: minimizing gain magnitude," *IEEE Transactions on Systems Man Cybernetics-Systems*, vol. 54, no. 1, pp. 76–87, Jan. 2024.
- [204] Guang-Ren Duan, "Stabilisation of four types of underactuated systems: a fas approach," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2421–2441, Sep. 2024.
- [205] Ming Liu, Tianyi Luo, Lixian Zhang, Xibin Cao, and Guangren Duan, "An adjustable feature-weighted bayesian model for hybrid satellite telemetry variables anomaly detection under multioperating conditions," *IEEE Transactions on Instrumentation and Measurement*, vol. 72, Art. no. 3536014, 2023.
- [206] Kaiwen Jiang, Zhi Li, and Ying Zhang, "An inversion-free iterative algorithm with a scalar tuning parameter for coupled riccati matrix equations arising in lq optimal control of markov jump systems," *IEEE Transactions on Automatic Control*, vol. 70, no. 3, pp. 1913–1920, Mar. 2025.
- [207] Wenbo Qi, Jie Zhong, Wenying Xu, and Yan Wang, "A two-timescale neurodynamic approach to robust distributed model predictive control for nonlinear systems," *Neurocomputing*, vol. 609, Art. no. 128489, Dec. 2024.
- [208] Fan Wu, Ming Liu, Zhenyu Feng, and Xibin Cao, "Fractional-order sliding mode attitude coordinated control for spacecraft formation flying with unreliable wireless communication," *IET Control Theory and Applications*, vol. 17, no. 4, pp. 368–380, Mar. 2023.
- [209] Di Jiang, Kang-Kang Zhang, and Bin Zhou, "Prescribed-time tracking control of mars entry vehicle with output constraints," *Aerospace Science and Technology*, vol. 152, Art. no. 109368, Sep. 2024.
- [210] Huaiyuan Jiang, Bin Zhou, and Guang-Ren Duan, "Modified λ-policy iteration based adaptive dynamic programming for unknown discrete-time linear systems," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 35, no. 3, pp. 3291–3301, Mar. 2024.
- [211] Bin Zhou and Kang-Kang Zhang, "A linear time-varying inequality approach for prescribed time stability and stabilization," *IEEE Transactions on Cybernetics*, vol. 53, no. 3, pp. 1880–1889, Mar. 2023.
- [212] Haowen Gao, Binyu Nie, Wenjie Lu, Yunxuan Feng, and Manman Hu, "Lambertian-trf: lambertian tensorial radiance fields for underwater 3-d reconstruction using imaging sonar," *IEEE Transactions on Instrumentation and Measurement*, vol. 74, Art. no. 7507415, 2025.

- [213] Wei Chen, Zidong Wang, Jun Hu, and Guo-Ping Liu, "Differentially private average consensus with logarithmic dynamic encoding-decoding scheme," *IEEE Transactions on Cybernetics*, vol. 53, no. 10, pp. 6725–6736, Oct. 2023.
- [214] Yifan Wang and Wei Sun, "Adaptive decentralized control for second-order large-scale nonlinear systems via fully actuated system approach," *Communications in Nonlinear Science and Numerical Simulation*, vol. 143, Art. no. 108616, Apr. 2025.
- [215] Lingfei Zhuang, Xiaofeng Chen, Wenjie Lu, and Yiting Yan, "Graph matching for underwater simultaneous localization and mapping using multibeam sonar imaging," *Journal of Marine Science and Engineering*, vol. 12, no. 10, Art. no. 1859, Oct. 2024.
- [216] Ai-Guo Wu, Zhiyuan Dong, and Ke Duan, "On bicon-numbers with their basic properties and applications in quantum systems," *IEEE Transactions on Cybernetics*, vol. 54, no. 7, pp. 4294–4307, Jul. 2024.
- [217] Kang-Kang Zhang, Bin Zhou, and Guang-Ren Duan, "Prescribed-time input-to-state stabilization of normal nonlinear systems by bounded time-varying feedback," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 69, no. 9, pp. 3715–3725, Sep. 2022.
- [218] Xiubo Wang and Guangren Duan, "High-order fully actuated system approaches: model predictive control with applications to under-actuated systems *," *Journal of The Franklin Institute*, vol. 360, no. 10, pp. 6953–6975, Jul. 2023.
- [219] Tianyi Zhao and Guangren Duan, "Parametric design for observer-based p2i controller with applications to high-accuracy tracking control in space optical communication," *International Journal of Control Automation and Systems*, vol. 21, no. 2, pp. 452–463, Feb. 2023.
- [220] Liyao Hu and Guangren Duan, "Adaptive guaranteed cost tracking control for high-order nonlinear systems based on fully actuated system approaches," *Transactions of The Institute of Measurement and Control*, vol. 46, no. 7, pp. 1283–1295, Apr. 2024.
- [221] Qin Huang and Ying Zhang, "Double-level prescribed performance control for rigid spacecraft attitude tracking under actuator faults," *Advances in Space Research*, vol. 75, no. 4, pp. 3950–3966, Feb. 2025.
- [222] Xiang Li, Zhaochun Ding, Jiang Wu, Wentao Wei, Lipeng Wang, Yanhu Zhang, Dong Li, Xuewen Rong, Rui Song, and Yibin Li, "A miniature pole-climbing piezoelectric robot with fast and load-towable movement inspired by squirrel's galloping gait," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 5, pp. 5221–5233, May 2025.
- [223] Kang-Kang Zhang, Bin Zhou, Huaiyuan Jiang, and Guang-Ren Duan, "Finite-time control of a class of nonlinear underactuated systems with application to underactuated axisymmetric spacecraft," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 5, pp. 7061–7071, Oct. 2023.

- [224] Yanjun Yu, Chengfei Yue, Ning Li, Feng Wang, and Huayi Li, "Onboard estimation of mean orbital elements extended to state jumping case," *Journal of Guidance Control and Dynamics*, vol. 45, no. 11, pp. 1996–2012, Nov. 2022.
- [225] Wen-Yong Zhang, Mu-Qing Niu, and Li-Qun Chen, "Vibration reduction of a timoshenko beam with multiple parallel nonlinear energy sinks," *Applied Sciences-Basel*, vol. 12, no. 18, Art. no. 9008, Sep. 2022.
- [226] Guang-Ren Duan, "A fas approach for stabilization of generalized chained forms: part 1. discontinuous control laws," *Science China-Information Sciences*, vol. 67, no. 2, Art. no. 122201, Feb. 2024.
- [227] Zhao Qin and Duan Guang-Ren, "Fully actuated system approach for 6dof spacecraft control based on extended state observer," *Journal of Systems Science & Complexity*, vol. 35, no. 2, pp. 604–622, Apr. 2022.
- [228] Kai Zhang, Bin Zhou, Wei Xing Zheng, and Guang-Ren Duan, "Finite-time stabilization of linear systems by bounded event-triggered and self-triggered control q," *Information Sciences*, vol. 597, pp. 166–181, Jun. 2022.
- [229] Yi Yu, Guo-Ping Liu, Yi Huang, Chi Yung Chung, and Yu-Zhong Li, "A blockchain consensus mechanism for real-time regulation of renewable energy power systems," *Nature Communications*, vol. 15, no. 1, Art. no. 10620, Dec. 2024.
- [230] Yang Cui, Guangren Duan, Xiaoping Liu, and Hongyu Zheng, "Adaptive fuzzy fault-tolerant control of high-order nonlinear systems: a fully actuated system approach," *International Journal of Fuzzy Systems*, vol. 25, no. 5, pp. 1895–1906, Jul. 2023.
- [231] Yiming Gao, Shi Qiu, Ming Liu, Lixian Zhang, and Xibin Cao, "Fault warning of satellite momentum wheels with a lightweight transformer improved by fastdtw," *IEEE*-CAA *Journal of Automatica Sinica*, vol. 12, no. 3, pp. 539–549, Mar. 2025.
- [232] Hong Chen, Dan Huang, Chenggang Wang, Lu Ding, Lei Song, and Hongtao Liu, "Collision-free path planning for multiple drones based on safe reinforcement learning," *Drones*, vol. 8, no. 9, Art. no. 481, Sep. 2024.
- [233] Lintao Li, Ying Zhang, and Rui Zhang, "Distributed 6-dof coordination control for spacecraft formation with disturbance, unmeasurable velocity, and communication delays," *IEEE Access*, vol. 11, pp. 22680–22688, 2023.
- [234] Gaowang Zhang, Feng Wang, Jian Chen, and Huayi Li, "Fixed-time sliding mode attitude control of a flexible spacecraft with rotating appendages connected by magnetic bearing," *Mathematical Biosciences and Engineering*, vol. 19, no. 3, pp. 2286–2309, 2022.
- [235] Binyu Nie, Wenjie Lu, Yunxuan Feng, Haowen Gao, and Kaiyang Lin, "Removing multi-path echoes in underwater 3d reconstruction via multi-view consistency," *Pattern Recognition Letters*, vol. 189, pp. 48–55, Mar. 2025.

- [236] Bin Zhou, Yi Ding, Kang-Kang Zhang, and Guang-Ren Duan, "Prescribed time control based on the periodic delayed sliding mode surface without singularities," *Science China-Information Sciences*, vol. 67, no. 7, Art. no. 172204, Jul. 2024.
- [237] Yurui Wang and Ying Zhang, "An accelerated zeroing neural network for solving continuous coupled Lyapunov matrix equations," *IET Control Theory and Applications*, vol. 18, no. 11, pp. 1414–1423, Jul. 2024.
- [238] Xiubo Wang and Guangren Duan, "Fully Actuated System Approaches: Predictive Elimination Control for Discrete-Time Nonlinear Time-Varying Systems With Full State Constraints and Time-Varying Delays," *IEEE Transactions on Circuits and Systems* I-Regular Papers, vol. 71, no. 1, pp. 383–396, Jan. 2024.
- [239] Qin Zhao and Guangren Duan, "Prescribed performance tracking control for spacecraft proximity operations with inertia property identification," *Aerospace Science and Technology*, vol. 141, Art. no. 108555, Oct. 2023.
- [240] Zhi Li and Ying Zhang, "Observer-based practically prescribed-time stabilisation of fully actuated systems with mismatched disturbances," *International Journal of Control*, May 2025.
- [241] Chang Yin and Ying Zhang, "*Robust* gradient-based neural networks for solving online the discrete periodic Lyapunov matrix equations," *IET Control Theory and Applications*, vol. 18, no. 1, pp. 71–82, Jan. 2024.
- [242] Haifang Li, "Fixed-time output regulation of linear delay systems by smooth time-varying control," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 2, pp. 806–819, Jan. 2023.
- [243] Guangren Duan, "Discrete-time delay systems: part 1. global fully actuated case," *Science China-Information Sciences*, vol. 65, no. 8, Art. no. 182201, Aug. 2022.
- [244] Kang-Kang Zhang, Bin Zhou, and Guang-Ren Duan, "Global prescribed-time output feedback control of a class of uncertain nonlinear systems by linear time-varying feedback," *Automatica*, vol. 165, Art. no. 111680, Jul. 2024.
- [245] Jiao Wu, Ming Liu, Yili Wang, and Xibin Cao, "Event-trigger-based cluster coordinated control of spacecraft swarm under switching topology," *Aerospace Science and Technology*, vol. 135, Art. no. 108200, Apr. 2023.
- [246] Wenrui Shi, Christodoulos Keliris, Mingzhe Hou, and Marios M. Polycarpou, "Tuning function based adaptive prescribed-time parameter estimation and tracking control design," *Automatica*, vol. 177, Art. no. 112285, Jul. 2025.
- [247] Haoyu Zheng, Bin Zhou, Yi Ding, and Mingrui Hao, "Prescribed-time chattering-free sliding mode guidance law with terminal angle constraint based on periodic delayed feedback," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 1, pp. 932–942, Feb. 2025.
- [248] Jinshuo Liu, Zhaochun Ding, Jiang Wu, Lipeng Wang, Teng Chen, Xuewen Rong, Rui Song, and Yibin Li, "A self-moving piezoelectric actuator with high carrying/positioning

- capability via bending-resonant-vibration-induced stick-slip motion," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 2, pp. 1829–1839, Feb. 2025.
- [249] Bin Zhou, "On the invertibility indices and the morse normal form for linear multivariable systems," *International Journal of Control*, vol. 97, no. 6, pp. 1198–1209, Jun. 2024.
- [250] Rui-Qi Dong, Ryozo Nagamune, and Ai-Guo Wu, "Anti-unwinding nonsingular terminal sliding mode control with attitude maneuver planning for flexible spacecraft," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 3, pp. 2090–2112, Feb. 2023.
- [251] Tianyi Luo, Ming Liu, Peng Shi, Guangren Duan, and Xibin Cao, "A hybrid data preprocessing-based hierarchical attention bilstm network for remaining useful life prediction of spacecraft lithium-ion batteries," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 35, no. 12, pp. 18076–18089, Dec. 2024.
- [252] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "Concurrent learning adaptive command filtered backstepping control for high-order strict-feedback systems," *IEEE Transactions on Circuits and Systems I-Regular Papers*, vol. 70, no. 4, pp. 1696–1709, Apr. 2023.
- [253] Guang-Ren Duan and Bin Zhou, "Fully actuated system approach for linear systems control: a frequency-domain solution," *Journal of Systems Science & Complexity*, vol. 35, no. 6, pp. 2046–2061, Dec. 2022.
- [254] Weizhen Liu, Guangren Duan, and Mingzhe Hou, "High-order robust command filtered backstepping design for strict-feedback systems: a high-order fully actuated system approach," *International Journal of Robust and Nonlinear Control*, vol. 32, no. 18, pp. 10251–10270, Dec. 2022.
- [255] Kai Zhang, Bin Zhou, and Xuefei Yang, "Disturbance rejection control of multiple integrators system by bounded linear extended observer based output feedback," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 5, pp. 2953–2970, Mar. 2023.
- [256] Xingwei Zhou, Wenshan Hu, Guo-Ping Liu, and Zhongcheng Lei, "Implementation and application of the microsecond-level low-step control experimental platform in m2plab," *Expert Systems with Applications*, vol. 278, Art. no. 127198, Jun. 2025.
- [257] Bin Zhou, Kang-Kang Zhang, and Huaiyuan Jiang, "Prescribed-time control of perturbed nonholonomic systems by time-varying feedback," *Automatica*, vol. 155, Art. no. 111125, Sep. 2023.
- [258] Yongchao Jiang, Chenggang Wang, Bochen Li, Lei Song, and Xinping Guan, "A *Robust* Safety-Critical Control Framework for Control Affine Systems With Applications to AUVs," *IEEE-ASME Transactions on Mechatronics*, Jul. 2024.
- [259] Yang Gao, Zhongcai Zhang, Peng Huang, and Yuqiang Wu, "Adaptive tracking controller for fas with state constraints and its application to underactuated overhead

- cranes: design and experiment," *IEEE Transactions on Industrial Electronics*, vol. 72, no. 6, pp. 6329–6339, Jun. 2025.
- [260] Kai Zhang, Bin Zhou, and Guang-Ren Duan, "Global consensus of double-integrator multiagent systems with input saturation by fully distributed event-triggered and self-triggered controls," *IEEE Transactions on Automatic Control*, vol. 69, no. 9, pp. 6269–6276, Sep. 2024.
- [261] Chengyuan Yan, Jianwei Xia, Ju H. Park, Jun-e Feng, and Xiangpeng Xie, "Fully actuated system approach-based dynamic event-triggered control with guaranteed transient performance of flexible-joint robot: experiment," *IEEE Transactions on Circuits and Systems II-Express Briefs*, vol. 71, no. 8, pp. 3775–3779, Aug. 2024.
- [262] Zhengxiao Peng, Kai Zhang, and Bin Zhou, "Finite-time stabilization of linear systems by reduced-order and dual observer-based bounded time-varying output feedback," *International Journal of Robust and Nonlinear Control*, Apr. 2025.
- [263] Guang-Ren Duan, Qin Zhao, and Tianyi Zhao, "Complete parametric solutions to the fundamental problem in high-order fully actuated system approach," *International Journal of Control Automation and Systems*, vol. 22, no. 1, pp. 228–240, Jan. 2024.
- [264] Xueqing Liu, Maoyin Chen, Donghua Zhou, and Li Sheng, "Fault-tolerant control of stochastic high-order fully actuated systems," *IEEE Transactions on Cybernetics*, vol. 54, no. 5, pp. 3225–3238, May 2024.
- [265] Nan Jiang, Zhongcai Zhang, Yang Gao, and Yuqiang Wu, "Asymptotic tracking control for state-constrained nonlinear systems with disturbances: theory and experiment," *Nonlinear Dynamics*, vol. 113, no. 8, pp. 8461–8474, Apr. 2025.
- [266] Yunxia Song, Zhao-Yan Li, and Bin Zhou, "Stability analysis of linear neutral delay systems with two delays via augmented Lyapunov-Krasovskii functionals," *IEEE Transactions on Circuits and Systems* I-Regular Papers, vol. 70, no. 1, pp. 460–471, Jan. 2023.
- [267] Xuefei Yang, and Bin Zhou, "Bounded controls for discrete-time linear systems subject to input time delay," *Journal of The Franklin Institute*, vol. 359, no. 10, pp. 4893–4914, Jul. 2022.
- [268] Zhongcheng Lei, Hong Zhou, Xiaoran Dai, Wenshan Hu, and Guo-Ping Liu, "Digital twin based monitoring and control for dc-dc converters," *Nature Communications*, vol. 14, no. 1, Art. no. 5604, Sep. 2023.
- [269] Chuan-Fan Lu, Guo-Ping Liu, Yi Yu, and Jinqiang Cui, "A coordinated model predictive control-based approach for vehicle-to-grid scheduling considering range anxiety and battery degradation," *IEEE Transactions on Transportation Electrification*, vol. 11, no. 2, pp. 5688–5699, Apr. 2025.
- [270] Yang Gao, Zhongcai Zhang, Nan Jiang, and Yuqiang Wu, "Anti-swing control for double-pendulum overhead cranes: from underactuated to fas configuration," *IEEE Transactions on Industrial Electronics*, Mar. 2025.

- [271] Bin Zhou and Huaiyuan Jiang, "On the invariant factors and the minimal polynomial assignments of linear systems," *Automatica*, vol. 164, Art. no. 111632, Jun. 2024.
- [272] Xueqing Liu, Maoyin Chen, Donghua Zhou, and Li Sheng, "Adaptive actuator fault-tolerant tracking control for stochastic high-order fully actuated systems," *IEEE Transactions on Cybernetics*, vol. 55, no. 4, pp. 1848–1859, Apr. 2025.
- [273] Yunxuan Feng, Wenjie Lu, Haowen Gao, Binyu Nie, Kaiyang Lin, and Liang Hu, "Differentiable space carving for 3d reconstruction using imaging sonar," *IEEE Robotics and Automation Letters*, vol. 9, no. 11, pp. 10065–10072, Nov. 2024.
- [274] Kai Zhang, Bin Zhou, and Guang-Bin Cai, "Consensus of input-constrained periodic linear multi-agent systems by fully distributed protocols," *Information Sciences*, vol. 640, Art. no. 118983, Sep. 2023.
- [275] Weitao Wei, Zhaochun Ding, Jiang Wu, Lipeng Wang, Chen Yang, Xuewen Rong, Rui Song, and Yibin Li, "A miniature piezoelectric actuator with fast movement and nanometer resolution," *International Journal of Mechanical Sciences*, vol. 273, Art. no. 109249, Jul. 2024.
- [276] Zhongcheng Lei, Hong Zhou, Wenshan Hu, and Guo-Ping Liu, "Flipping laboratories toward future experimentation systems: the blended use of hands-on, pocket, and online laboratories," *IEEE Industrial Electronics Magazine*, vol. 17, no. 2, pp. 48–60, Jun. 2023.
- [277] Yi Yu, Guo-Ping Liu, and Wenshan Hu, "Blockchain protocol-based secondary predictive secure control for voltage restoration and current sharing of dc microgrids," *IEEE Transactions on Smart Grid*, vol. 14, no. 3, pp. 1763–1776, May 2023.
- [278] Gang Li, Xin Ma, Ling Yang, Jifu Li, Jianyan Tian, and Yibin Li, "Adaptive output feedback anti-swing control for underactuated 7-dof rotary crane with gravitational estimation," *Mechanical Systems and Signal Processing*, vol. 229, Art. no. 112495, Apr. 2025.
- [279] Xiuli Zhu, Jiajun Xu, Zixuan Fu, Seshu Kumar Damarla, Peng Wang, and Kuangrong Hao, "Novel dynamic data-driven modeling based on feature enhancement with derivative memory lstm for complex industrial process," *Neurocomputing*, vol. 626, Art. no. 129619, Apr. 2025.
- [280] Wen-Ju Han, Ze-Qi Lu, Mu-Qing Niu, and Li-Qun Chen, "Analytical and experimental investigation on a nitinol circular ring-type vibration isolator with both stiffness and damping nonlinearities," *Journal of Sound and Vibration*, vol. 547, Art. no. 117543, Mar. 2023.
- [281] Zhong-Cai Zhang, Guang-Ren Duan, and Yu-Qiang Wu, "Continuous stabilization controller for nonlinear systems with two piecewise controllers and its application to underactuated ships," *IEEE Transactions on Cybernetics*, vol. 55, no. 4, pp. 1594–1605, Apr. 2025.

- [282] Xiaoran Dai, Guo-Ping Liu, Wenshan Hu, Qijun Deng, and Zhongcheng Lei, "Distributed predictive control for networked dc microgrids with communication delays and packet dropouts," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 3, pp. 2294–2303, Mar. 2025.
- [283] Xuefang Li, Yanfang Chen, Hui-Jie Sun, and Wanquan Liu, "Adaptive iterative learning control for high-order nonlinear systems with different types of uncertainties," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 8, pp. 5399–5418, May 2024.
- [284] Shiyu An, Ming Liu, Huayi Li, and Fan Wu, "Five-impulse low-energy earth-moon transfer using manifolds," *Advances in Space Research*, vol. 73, no. 1, pp. 201–224, Jan. 2024.
- [285] Weizhen Liu, Xin Huo, Kemao Ma, and Weichao Sun, "Improved gradient estimation for fast extremum seeking: a parametric proportional-integral observer-based approach," *IEEE Transactions on Systems Man Cybernetics-Systems*, vol. 53, no. 12, pp. 7656–7667, Dec. 2023.
- [286] Gaowang Zhang, Shi Qiu, and Feng Wang, "Adaptive fuzzy fault-tolerant control of flexible spacecraft with rotating appendages," *International Journal of Fuzzy Systems*, vol. 25, no. 1, pp. 326–337, Feb. 2023.
- [287] Kang-Kang Zhang, Bin Zhou, Mingzhe Hou, and Guang-Ren Duan, "Prescribed-time control of high-order nonholonomic systems in chained form by time-varying feedback," *Systems & Control Letters*, vol. 166, Art. no. 105307, Aug. 2022.
- [288] Yongyuan Yu and Renren Zhang, "Controllability and pareto improvability on nash equilibriums in game-based control systems," *Automatica*, vol. 171, Art. no. 111893, Jan. 2025.
- [289] Yi Yu, Guo-Ping Liu, Xiaoran Dai, and Wenshan Hu, "Dynamic coordinated control for multiconverter systems via a multistep prediction scheme," *IEEE Transactions on Industrial Informatics*, vol. 19, no. 10, pp. 10322–10333, Oct. 2023.
- [290] Kai Zhang, Bin Zhou, and Guanghui Wen, "Global leader-following consensus of double-integrator multiagent systems by fully distributed bounded linear protocols," *IEEE Transactions on Automatic Control*, vol. 67, no. 9, pp. 4846–4853, Sep. 2022.
- [291] Huaiyuan Jiang, Bin Zhou, and Guang-Ren Duan, "Modified general policy iteration based adaptive dynamic programming for unknown discrete-time linear systems," *International Journal of Robust and Nonlinear Control*, vol. 32, no. 12, pp. 7149–7173, Aug. 2022.
- [292] Jinshuo Liu, Longhui Ding, Chengqi Pan, Xiaohang Lai, Jiang Wu, Zhaochun Ding, Lipeng Wang, Xuhui Jing, Yili Wang, Leilei Lv, Xiaojia Zhu, and Xiaoming Yue, "A centipede-inspired bonded-type ultrasonic actuator with high thrust force density driven by dual-torsional-vibration-induced flexural traveling waves," *Sensors and Actuators A-Physical*, vol. 377, Art. no. 115733, Oct. 2024.

- [293] Haibo Gao, Shengjun Wang, Kaizheng Shan, Changxi Mu, Xin Wang, Bo Su, and Haitao Yu, "Stable rapid sagittal walking control for bipedal robot using passive tendon," *Actuators*, vol. 13, no. 7, Art. no. 240, Jul. 2024.
- [294] Liyao Hu, Guangren Duan, and Mingzhe Hou, "Adaptive guaranteed cost control for nonlinear systems with unknown parameters and time delays based on fully actuated system approaches," *ISA Transactions*, vol. 145, pp. 112–123, Feb. 2024.
- [295] Ping Li and Guang-Ren Duan, "High-order fully actuated control approach for servo systems based on dynamical compensator and extended state observer," *IEEE-ASME Transactions on Mechatronics*, vol. 29, no. 5, pp. 3717–3726, Oct. 2024.
- [296] Ang Li, Ming Liu, Xibin Cao, and Ruixia Liu, "Adaptive quantized sliding mode attitude tracking control for flexible spacecraft with input dead-zone via takagi-sugeno fuzzy approach," *Information Sciences*, vol. 587, pp. 746–773, Mar. 2022.
- [297] Fuxing Yao, Guangtai Tian, Aiguo Wu, Guang-Ren Duan, and He Kong, "A high-order fully actuated system approach to control of overhead cranes," *IEEE-ASME Transactions on Mechatronics*, Sep. 2024.
- [298] Liyao Hu, Guangren Duan, and Mingzhe Hou, " *Robust* adaptive guaranteed cost tracking control for high-order nonlinear systems with uncertainties based on high-order fully actuated system approaches," *International Journal of Robust and Nonlinear Control*, vol. 33, no. 13, pp. 7583–7605, Sep. 2023.
- [299] Yu-Yao Wu, Ying Zhang, and Ai-Guo Wu, "Predetermined time attitude tracking control for rigid spacecraft," *Acta Astronautica*, vol. 200, pp. 111–119, Nov. 2022.
- [300] Guangtao Ran, Yanning Guo, Yueyong Lv, Hak-Keung Lam, Jian Liu, and Hongtian Chen, "It2-fuzzy-model-based guaranteed cost control for continuous-time mjss with non-consecutive transmission and quantization," *International Journal of Robust and Nonlinear Control*, vol. 35, no. 3, pp. 894–908, Feb. 2025.
- [301] Cheng Li, Yue Zhao, Zhuang Liu, Xiaoning Shen, Yabin Gao, and Jianxing Liu, "Prescribed performance control for pem fuel cell air supply system based on fully actuated approach with fixed regulation time," *International Journal of Circuit Theory and Applications*, Nov. 2024.
- [302] Yu-Tian Xu, Ai-Guo Wu, and Peng Li, "Adaptive anti-unwinding attitude stabilisation with predefined time for rigid spacecraft," *International Journal of Systems Science*, vol. 56, no. 5, pp. 1023–1042, Apr. 2025.
- [303] Ping Li and Guangren Duan, "High-order fully actuated control approaches of flexible servo systems based on singular perturbation theory," *IEEE/ASME Transactions on Mechatronics*, vol. 28, no. 6, pp. 3386–3397, Dec. 2023.
- [304] Ang Li, Alessandro Astolfi, and Ming Liu, "Attitude regulation with bounded control in the presence of large disturbances with bounded moving average," *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 5, pp. 834–846, May 2022.

- [305] Zhao-Yan Li, YunXia Song, Xing Li, and Bin Zhou, "On stability analysis of stochastic neutral-type systems with multiple delays," *Automatica*, vol. 171, Art. no. 111905, Jan. 2025.
- [306] Puti Yan, Runze Hou, Xuguang Duan, Chengfei Yue, Xin Wang, and Xibin Cao, "Stdmanet: spatio-temporal differential multiscale attention network for small moving infrared target detection," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 61, Art. no. 5602516, 2023.
- [307] Wei Chen, Rong Zhao, Lu Liu, and Guo-Ping Liu, "Consensus control of discrete-time multiagent systems over correlated fading channels: a compressed coding scheme," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 9, pp. 5760–5771, Sep. 2023.
- [308] Zhao Haotian, Liu Ming, Sun Yiyong, Chen Zhang, Duan Guangren, and Cao Xibin, "Fault diagnosis of control moment gyroscope based on a new cnn scheme using attention-enhanced convolutional block," *Science China-Technological Sciences*, vol. 65, no. 11, pp. 2605–2616, Nov. 2022.
- [309] Caixia Wang, Yongyuan Yu, and Jun-e Feng, "Detectability of boolean networks: a finite-time convergent matrix approach," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 361, no. 3, pp. 1238–1254, Feb. 2024.
- [310] Fanghong Guo, Zhen Huang, Jinhui Wu, Zhuocheng Li, Shan Liu, and Lantao Xing, "Distributed secondary resilient controller design for islanded ac microgrids under stealthy frequency sensor attack," *IEEE Transactions on Circuits and Systems I: Regular Papers*, Jul. 2024.
- [311] Changhong Wang, Xudong Yu, Chenjia Bai, Qiaosheng Zhang, and Zhen Wang, "Ensemble successor representations for task generalization in offline-to-online reinforcement learning," *Science China-Information Sciences*, vol. 67, no. 7, Art. no. 172203, Jul. 2024.
- [312] Cheng Fu, Chenghui Zhang, Guanguan Zhang, and Lantao Xing, "Distributed fast finite-time secondary control of islanded microgrids: a disturbance observer-based approach," *International Journal of Electrical Power & Energy Systems*, vol. 157, Art. no. 109813, Jun. 2024.
- [313] Yihao Wang, Huaiyuan Jiang, and Kang-Kang Zhang, "An adaptive observer based output feedback prescribed-time control of a class of nonlinear systems with unknown parameters," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 8, pp. 5459–5483, May 2024.
- [314] Xiuhui Peng, Jian Li, Peng Wang, and Yuezu Lv, "Leaderless consensus-based formation stabilization control for nonholonomic vehicles in the gps-denied environment," *IEEE/ASME Transactions on Mechatronics*, Sep. 2024.

- [315] Chenxiao Wang, Fuxing Yao, Tianshi Chen, Wei Xing Zheng, Guang-Ren Duan, and He Kong, "Parameterized gain-constrained kalman filtering via singular value decomposition," *Automatica*, vol. 174, Art. no. 112103, Apr. 2025.
- [316] Yang Gao, Zhongcai Zhang, Nan Jiang, and Yuqiang Wu, "Neuroadaptive control of nonholonomic systems with function constraints: theory and experiment," *IET Control Theory and Applications*, vol. 19, no. 1, Art. no. e70011, Jan. 2025.
- [317] Aiguo Wu, Jie Zhang, and Zhibin Yan, "A note on bivariant fundamental matrices and state responses for continuous-time linear systems with state delays," *Science China-Technological Sciences*, vol. 68, no. 9, Art. no. 1980401, Sep. 2025.
- [318] Rui-Qi Dong, Ai-Guo Wu, Ying Zhang, Guang-Ren Duan, and Bin Li, "Anti-unwinding terminal sliding mode attitude tracking control for rigid spacecraft," *Automatica*, vol. 145, Art. no. 110567, Nov. 2022.
- [319] Guanglei Zhao, Gaoge Dai, Bingkang Peng, and Hailong Cui, "Adaptive fault-tolerant control of platoons with prescribed tracking performance," *International Journal of Control Automation and Systems*, vol. 22, no. 7, pp. 2158–2170, Jul. 2024.
- [320] Kai Zhang, Bin Zhou, and Guang-Ren Duan, "Leader-following consensus of multi-agent systems with time delays by fully distributed protocols☆," *Systems & Control Letters*, vol. 178, Art. no. 105582, Aug. 2023.
- [321] Ruixia Liu, Ming Liu, Guangren Duan, and Xibin Cao, "Robust adaptive smooth variable structure kalman filter for spacecraft attitude estimation," *Aerospace Science and Technology*, vol. 144, Art. no. 108784, Jan. 2024.
- [322] Ai-Guo Wu, Shi-Long Shen, Jie Zhang, and Jie Mei, "Predictor feedback control for discrete-time systems with input delays and multiple state delays via bivariant fundamental matrices," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 72, no. 4, pp. 1800–1812, Apr. 2025.
- [323] Liyao Hu, Guangren Duan, and Mingzhe Hou, "Robust switching adaptive tracking control for uncertain high-order fully actuated systems based on fully actuated system approaches," *Journal of the Franklin Institute*, vol. 361, no. 4, Art. no. 106659, Mar. 2024.
- [324] Yonghao Ma, Ke Zhang, and Bin Jiang, "Neuroadaptive cooperative fault-tolerant control of heterogeneous multiagent systems based on fully actuated system approaches," *IEEE Transactions on Cybernetics*, vol. 54, no. 8, pp. 4581–4592, Aug. 2024.
- [325] Renkai Yi, Xiuhui Peng, Peng Wang, and Yuezu Lv, "Simultaneous stabilization control of position and orientation for nonholonomic vehicle in 3-d space: geometric reference trajectory," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 2, pp. 2843–2853, Apr. 2025.

- [326] Yonghao Ma, Ke Zhang, and Bin Jiang, "Practical prescribed-time active fault-tolerant control for mixed-order heterogeneous multiagent systems: a fully actuated system approach," *Automatica*, vol. 166, Art. no. 111721, Aug. 2024.
- [327] Xiaoxue Zhao, Zhuchun Li, and Xiaoping Xue, "Unified approach for applications of oscillatory associative-memory networks with error-free retrieval," *Physical Review E*, vol. 108, no. 1, Art. no. 14305, Jul. 2023.
- [328] Hailong Cui, Guanglei Zhao, Shuang Liu, and Zhijie Li, "Event-triggered bipartite consensus to heterogeneous multiagent systems under dos attacks: a fully distributed method," *Information Sciences*, vol. 690, Art. no. 121568, Feb. 2025.
- [329] Xiuli Zhu, Peng Wang, Ning Li, and Weiwu Yan, "Multi-period optimal scheduling of building loads based on accurate virtual battery model," *Energy and Buildings*, vol. 327, Art. no. 115046, Jan. 2025.
- [330] Xiangwei Wang, Peng Wang, Renke Huang, Xiuli Zhu, Javier Arroyo, and Ning Li, "Safe deep reinforcement learning for building energy management," *Applied Energy*, vol. 377, Art. no. 124328, Jan. 2025.
- [331] Haotian Xu, Shuai Liu, Yueyang Li, and Ke Li, "Distributed observer for full-measured nonlinear systems based on knowledge of fmcf," *IEEE/CAA Journal of Automatica Sinica*, vol. 12, no. 1, pp. 69–85, Jan. 2025.
- [332] Shi-Long Shen, Ai-Guo Wu, and Ying Zhang, "Predictor feedback control of discrete-time systems with both input delays and multiple state delays based on state observers," *IEEE Transactions on Circuits and Systems I: Regular Papers*, Jan. 2025.
- [333] Mehdi Golestani, Yongduan Song, Tao Liu, Xiang Xu, Guang-Ren Duan, and He Kong, "A novel feasibility condition-free approach for achieving desired precision and unified performance within prescribed time," *IEEE Transactions on Circuits and Systems I: Regular Papers*, Apr. 2025.
- [334] Ai-Guo Wu, Jie Zhang, and Shi-Long Shen, "Predictor-based feedback control for discrete-time time-variant linear state-delayed systems with distinct input delays via state transition matrices," *IEEE Transactions on Cybernetics*, vol. 55, no. 5, pp. 2273–2285, May 2025.
- [335] Xiuli Zhu, Yan Song, Peng Wang, Ling Li, and Zixuan Fu, "Data-driven adaptive and stable feature selection method for large-scale industrial systems," *Control Engineering Practice*, vol. 153, Art. no. 106097, Dec. 2024.
- [336] Weizhen Liu, Guangren Duan, Mingzhe Hou, Mehdi Golestani, and He Kong, "Control of uncertain high-order fully actuated strict-feedback systems: a backstepping approach with high-gain observer-based derivative approximation," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7456–7468, Dec. 2024.
- [337] Wei Chen, Zidong Wang, Hongli Dong, Jingfeng Mao, and Guo-Ping Liu, "Privacy-preserving distributed economic dispatch of microgrids over directed networks

- via state decomposition: a fast consensus algorithm," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 3, pp. 4092–4102, Mar. 2024.
- [338] Ai-Guo Wu, Jie Zhang, and Jie Mei, "Trivariant fundamental matrices and predictor based feedback control laws for discrete-time linear systems with variant state-delays*," *Automatica*, vol. 173, Art. no. 112018, Mar. 2025.
- [339] Guangtai Tian, Jin Tan, Bin Li, and Guangren Duan, "Optimal fully actuated system approach-based trajectory tracking control for robot manipulators," *IEEE Transactions on Cybernetics*, vol. 54, no. 12, pp. 7469–7478, Dec. 2024.
- [340] Wei Chen, Zidong Wang, Jun Hu, Hongli Dong, and Guo-Ping Liu, "Distributed resilient state estimation for cyber-physical systems against bit errors: a zonotopic set-membership approach," *IEEE Transactions on Network Science and Engineering*, vol. 10, no. 6, pp. 3922–3932, Nov. 2023.
- [341] Bo Meng, Lihua Shen, Ke Zhang, and Jingping Xia, "Fully actuated system approach-based fault-tolerant formation reconstruction control and optimal task assignment for fixed-wing uavs," *Nonlinear Dynamics*, vol. 113, no. 1, pp. 645–659, Jan. 2025.
- [342] Ping Li, Guangren Duan, Bi Zhang, Ping Wang, and Yuzhong Wang, "High-order fully actuated approach for output tracking control of flexible servo systems subject to uncertainties and disturbances," *IEEE Transactions on Industrial Electronics*, Feb. 2025.
- [343] Qiliang Zhang, Yongyuan Yu, and Jun-e Feng, "Self-triggered control for approximate synchronization of singular logical networks," *Nonlinear Analysis: Hybrid Systems*, vol. 54, Art. no. 101531, Nov. 2024.
- [344] Ping Li, Guangren Duan, Bi Zhang, and Yuzhong Wang, "Event-triggered control for servo motor systems based on fully actuated system approach and dynamical compensator," *IEEE Transactions on Industrial Electronics*, Dec. 2024.
- [345] Haifang Li, Bin Zhou, Wim Michiels, and Guang-Ren Duan, "Prescribed-time unknown input observers design by using periodic delayed output with application to fault estimation," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 2, pp. 664–674, Feb. 2023.
- [346] Chenglin Han, Li-Qun Chen, Tianzhi Yang, Guoqiang Xu, Jiaxin Li, Changyou Li, Haiyan Fan, Andrea Alu, and Cheng-Wei Qiu, "Observation of dispersive acoustic quasicrystals," *Nature Communications*, vol. 16, no. 1, Art. no. 1988, Feb. 2025.
- [347] Wei Wang, Chao Fang, Peng Si, Yan Wang, and Mingqiang Lin, "Reliability analysis of interval-valued multi-state sliding window system for sequential tasks," *Computers & Industrial Engineering*, vol. 188, Art. no. 109924, Feb. 2024.
- [348] Jing Zhu, Shanwen Zhao, and Xiangping Zhai, "Integrated fault estimation and control for multi-agent systems with external disturbance using delayed relative information," *Transactions of the Institute of Measurement and Control*, vol. 46, no. 16, pp. 3118–3128, Dec. 2024.

- [349] Guanglei Zhao, Quanzhong Liu, and Changchun Hua, "Prescribed-time containment control of high-order nonlinear multi-agent systems based on distributed observer," *Journal of the Franklin Institute*, vol. 360, no. 10, pp. 6736–6756, Jul. 2023.
- [350] Haifang Li, Bin Zhou, and Wim Michiels, "Prescribed-time unknown input observers design for singular systems: a periodic delayed output approach," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 54, no. 2, pp. 741–751, Feb. 2024.
- [351] Lantao Xing and Changyun Wen, "Dynamic event-triggered adaptive control for a class of uncertain nonlinear systems," *Automatica*, vol. 158, Art. no. 111286, Dec. 2023.
- [352] Huaiyuan Jiang, Xiang Li, Bin Zhou, and Xibin Cao, "Bias-policy iteration-based adaptive dynamic programming for optimal control of discrete-time nonlinear systems," *IEEE Transactions on Circuits and Systems I: Regular Papers*, Nov. 2024.
- [353] Kai Zhang and Bin Zhou, "Fully distributed and attack-immune protocols for linear multiagent systems by linear time-varying feedback," *Automatica*, vol. 172, Art. no. 112009, Feb. 2025.
- [354] Chenglin Han, Shida Fan, Changyou Li, Li-Qun Chen, Tianzhi Yang, and Cheng-Wei Qiu, "Nonlocal acoustic moiré hyperbolic metasurfaces," *Advanced Materials*, vol. 36, no. 18, May 2024.
- [355] Guanglei Zhao, Lanqing Jin, Hailong Cui, and Yifeng Wang, "Distributed dynamic event-triggered secondary control for islanded microgrids with disturbances and communication delays: a hybrid systems approach," *IEEE Transactions on Industrial Informatics*, vol. 19, no. 8, pp. 8795–8805, Aug. 2023.
- [356] Lingling Li, Rongni Yang, Zhiguang Feng, and Ligang Wu, "Resilient sliding mode control for 2d cpss under denial-of-service attacks," *Science China-Information Sciences*, vol. 67, no. 6, Art. no. 162202, Jun. 2024.
- [357] Rui Meng, Changchun Hua, Kuo Li, and Pengju Ning, "Adaptive event-triggered control for uncertain high-order fully actuated system," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 69, no. 11, pp. 4438–4442, Nov. 2022.
- [358] Hailong Cui, Guanglei Zhao, Shuang Liu, and Zhijie Li, "A decentralized dynamic self-triggered control approach to consensus of multiagent systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 53, no. 9, pp. 5772–5783, Sep. 2023.
- [359] Haifang Li, Bin Zhou, and Wim Michiels, "Prescribed-time sensor fault estimation for linear systems with unknown inputs by periodic delayed observers," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 10, pp. 6636–6658, Jul. 2024.
- [360] Xiongtao Shi, Yanjie Li, Chenglong Du, Yang Shi, Chunhua Yang, and Weihua Gui, "Fully distributed event-triggered control of nonlinear multiagent systems under directed graphs: a model-free drl approach," *IEEE Transactions on Automatic Control*, vol. 70, no. 1, pp. 603–610, Jan. 2025.

- [361] Guofeng Zhang, Jinghao Li, Zhiyuan Dong, and Ian R. Petersen, "The quantum kalman decomposition: a gramian matrix approach," *Automatica*, vol. 173, Art. no. 112069, Mar. 2025.
- [362] Chenglin Han, Shida Fan, Hong-Tao Zhou, Kuan He, Yurou Jia, Changyou Li, Hongzhu Li, Xiao-Dong Yang, Li-Qun Chen, Tianzhi Yang, and Cheng-Wei Qiu, "All-angle unidirectional flat-band acoustic metasurfaces," *Nature Communications*, vol. 16, no. 1, Art. no. 634, Jan. 2025.
- [363] Yonghao Ma, Ke Zhang, and Bin Jiang, "Prescribed-time fault-tolerant control for fully actuated heterogeneous multiagent systems: a hierarchical design approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 5, pp. 6624–6636, Oct. 2023.
- [364] Guanglei Zhao and Changchun Hua, "Hybrid event-triggered cooperative output regulation of multiagent systems with unreliable communication link," *IEEE Transactions on Cybernetics*, vol. 54, no. 3, pp. 1782–1793, Mar. 2024.
- [365] Xiaoxue Zhao and Zhuchun Li, "Binary pattern retrieval with kuramoto-type oscillators via a least orthogonal lift of three patterns," *European Journal of Applied Mathematics*, vol. 36, no. 2, pp. 448–463, Apr. 2025.
- [366] Rui-Qi Dong, Ai-Guo Wu, Ying Zhang, Guang-Ren Duan, and Jing Huang, "Antiunwinding Sliding Mode Control for Rigid Spacecraft Based on Modified Rodrigues Parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 3, pp. 2579–2592, Jun. 2023.
- [367] Yonghao Ma, Ke Zhang, and Bin Jiang, "Prescribed-time fault-tolerant containment control of fully actuated heterogeneous multiagent systems without estimations of fault parameters," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 13621–13632, 2025.
- [368] Ai-Guo Wu, Guang-Ren Duan, Yu Wang, and Jie Zhang, "A model reduction approach for discrete-time linear time-variant systems with delayed inputs," *Science China-Information Sciences*, vol. 67, no. 4, Art. no. 142201, Apr. 2024.
- [369] Wei Chen, Zidong Wang, Qinyuan Liu, Dong Yue, and Guo-Ping Liu, "A new privacy-preserving average consensus algorithm with two-phase structure: Applications to load sharing of microgrids ★," *Automatica*, vol. 167, Art. no. 111715, Sep. 2024.
- [370] Qingyi Liu, Ke Zhang, Bin Jiang, and Jinfa Xu, "Prescribed-time fault-tolerant formation control for collision-free unmanned helicopters: a high-order fully actuated system approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 4, pp. 4715–4727, Aug. 2024.
- [371] Zhao-Yan Li, Qianqian Zhang, and Bin Zhou, "On exponential and L2-exponential stability of continuous-time delay-difference systems," *Applied Mathematics and Computation*, vol. 481, Art. no. 128949, Nov. 2024.

- [372] Ai-Guo Wu and Yuan Meng, "Data-driven adaptive optimal control for discrete-time linear time-invariant systems," *International Journal of Systems Science*, vol. 55, no. 15, pp. 3069–3082, Nov. 2024.
- [373] Qianqian Zhang, Zhao-Yan Li, and Bin Zhou, "Stability and convergence rate analysis of continuous-time delay-difference systems with both point and distributed delays," *International Journal of Systems Science*, vol. 56, no. 3, pp. 434–449, Feb. 2025.
- [374] Zain ul Aabidin Lodhi, Kai Zhang, Bin Zhou, and Huaiyuan Jiang, "Adaptive prescribed-time consensus for a class of nonlinear multi-agent networks by bounded time-varying protocols," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 71, no. 10, pp. 4742–4752, Oct. 2024.
- [375] Lixuan Zhang, Kai Zhang, and Bin Zhou, "Fully distributed consensus of discrete-time linear multi-agent systems with large input and communication delays," *ISA Transactions*, vol. 151, pp. 41–50, Aug. 2024.
- [376] Jianan Yang, Yimin Zhu, Lixian Zhang, Guangren Duan, Ming Liu, and Xibin Cao, "Smooth control with flexible duration for semi-markov jump linear systems," *Automatica*, vol. 164, Art. no. 111612, Jun. 2024.
- [377] Qiyang Miao, Ke Zhang, and Bin Jiang, "Incremental fully actuated system approach-based prescribed-time fault-tolerant formation control of helicopters under multiple faults," *Aerospace Science and Technology*, vol. 151, Art. no. 109334, Aug. 2024.
- [378] Guangtai Tian, Mehdi Golestani, James Lam, Guangren Duan, and He Kong, "Prescribed-time control of nonlinear systems with global prescribed performance for state errors," *IEEE Transactions on Circuits and Systems I: Regular Papers*, Apr. 2025.
- [379] Lingling Li, Rongni Yang, Zhan Shu, and Ligang Wu, "Event-based secure state estimation for 2-d cpss under deception attacks: a game theoretic approach," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 2, pp. 1017–1025, Feb. 2025.
- [380] Kai Zhang, Meilin Li, Zhijian Hu, Xuefei Yang, and Kang-Kang Zhang, "Periodic event-triggered and self-triggered control of spacecraft rendezvous system with input delay," *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 6113–6121, 2025.
- [381] Kai Zhang, Zhao-Yan Li, and Bin Zhou, "Fully distributed output regulation of linear discrete-time multiagent systems with time-varying topology and delays," *Automatica*, vol. 167, Art. no. 111755, Sep. 2024.
- [382] Mingsong Li, Ke Zhang, Yonghao Ma, and Bin Jiang, "Prescribed-time fault-tolerant control for the formation of quadrotors based on fully-actuated system approaches," *International Journal of Systems Science*, vol. 55, no. 12, pp. 2541–2555, Sep. 2024.

- [383] Nuomin Zhang, Yue Zhao, Yu Yuan, Yang Xiao, Mengting Qin, and Yi Shen, "Cross-correlation adjustment full-waveform inversion with source encoding in ultrasound computed tomography," *Ultrasonics*, vol. 142, Art. no. 107392, Aug. 2024.
- [384] Yu-Tian Xu and Ai-Guo Wu, "Attitude tracking control for rigid spacecraft with arbitrary convergence time," *Journal of Systems Science & Complexity*, vol. 37, no. 6, pp. 2579–2594, Dec. 2024.
- [385] Wen-Nian Qi and Ai-Guo Wu, "Fixed-time adaptive fault-tolerant tracking control for uncertain strict-feedback nonlinear systems via command filtered backstepping," *International Journal of Robust and Nonlinear Control*, vol. 34, no. 8, pp. 5026–5048, May 2024.
- [386] Kai Zhang, Bin Zhou, Xuefei Yang, and Guang-Ren Duan, "Time-varying event-triggered and self-triggered bounded control of linear systems with a designable minimal interevent time," *IEEE Transactions on Systems, Man, and Cybernetics:* Systems, vol. 54, no. 2, pp. 1288–1298, Feb. 2024.
- [387] Yingxin Tian, Renjie Ma, Yabin Gao, Wensheng Luo, and Ligang Wu, "Secure control for remote networked stochastic systems via integral sliding mode," *ISA Transactions*, vol. 146, pp. 208–220, Mar. 2024.
- [388] Jahan Zaib Bhatti, Guo-Ping Liu, Shafqat Ali, Nasim Ullah, Ivo Pergl, Lukas Prokop, and Vojtech Blazek, "Design and implementation of mobile experiment algorithm designer interface for network control system laboratory," *IEEE Access*, vol. 13, pp. 34598–34612, 2025.
- [389] Yuhang Xu, Bin Jiang, Marios M. Polycarpou, and Bingyun Li, "Fault-tolerant game control for quadrotor helicopters' formation: a fully actuated system approach," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 61, no. 2, pp. 4808–4824, Apr. 2025.