

## Publications

- [1] **Li J**, Li S E, Duan J, et al. Relaxed policy iteration algorithm for nonlinear zero-sum games with application to H-infinity control[J]. IEEE Transactions on Automatic Control, 2024, 69(1): 426-433.
- [2] **Li J**, Nagamune R, Zhang Y, Li S E. Robust approximate dynamic programming for nonlinear systems with both model error and external disturbance[J]. IEEE Transactions on Neural Networks and Learning Systems, 2023.
- [3] Duan J\*, **Li J\***, Chen X, et al. Optimization landscape of policy gradient methods for discrete-time static output feedback[J]. IEEE Transactions on Cybernetics, 2023.
- [4] **Li J**, Wang J, Li S E, Li K. Learning optimal robust control of connected vehicles in mixed traffic flow[C]//2023 Conference on Decision and Control (CDC). IEEE, 2023: 1112-1117.
- [5] Duan J\*, **Li J\***, Ge Q, et al. Relaxed actor-critic with convergence guarantees for continuous-time optimal control of nonlinear systems[J]. IEEE Transactions on Intelligent Vehicles, 2023, 8(5): 3299-3311.
- [6] **Li J**, Li S E, Tang K, et al. Reinforcement solver for H-infinity filter with bounded noise[C]//2020 15th IEEE International Conference on Signal Processing (ICSP). IEEE, 2020, 1: 62-67.
- [7] Duan J, **Li J**, Li S E, et al. Optimization landscape of gradient descent for discrete-time static output feedback[C]//2022 American Control Conference (ACC). IEEE, 2022: 2932-2937.
- [8] Maihemuti M, Li S E, **Li J**, et al. Accelerated convergence of time-splitting algorithm for MPC using cross-node consensus[C]//2020 IEEE Intelligent Vehicles Symposium (IV). IEEE, 2020: 566-571.
- [9] Zou W, Lyu Y, **Li J**, et al. Policy bifurcation in safe reinforcement learning[J]. arXiv preprint arXiv:2403.12847, submitted to Nature Machine Intelligence, 2024.
- [10] Duan J, Ren Y, Zhang F, **Li J**, et al. Encoding Distributional Soft Actor-Critic for Autonomous Driving in Multi-Lane Scenarios[J]. IEEE Computational Intelligence Magazine, 2024, 19(2): 96-112.
- [11] Guan Y, Li S E, Duan J, **Li J**, et al. Direct and indirect reinforcement learning[J]. International Journal of Intelligent Systems, 2021, 36(8): 4439-4467.
- [12] Lin Z, Duan J, Li S E, **Li J**, et al. Solving finite-horizon HJB for optimal control of continuous-time systems[C]//2021 International Conference on Computer, Control and Robotics (ICCCR). IEEE, 2021: 116-122.
- [13] Guan Y, Duan J, Li S E, **Li J**, et al. Mixed policy gradient: off-policy reinforcement learning driven jointly by data and model[J]. arXiv preprint arXiv:2102.11513, submitted to IEEE Transactions on Systems, Man and Cybernetics: Systems, 2021.
- [14] Qin S, Yang Y, Mu Y, **Li J**, et al. Feasible reachable policy iteration [C]//2024 International Conference on Machine Learning (ICML). PMLR, 2024.
- [15] Lin Z, Duan J, Li S E, Ma H, **Li J**, et al. Policy-iteration-based finite-horizon approximate dynamic programming for continuous-time nonlinear optimal control[J]. IEEE Transactions on Neural Networks and Learning Systems, 2023, 36(9): 5255-5267.

- [16] Li K, Li S E, Gao F, Lin Z, **Li J**, et al. Robust distributed consensus control of uncertain multi-agents interacted by eigenvalue-bounded topologies[J]. IEEE Internet of Things Journal, 2020, 7(5): 3790-3798.
- [17] Li Z, Hu C, Wang Y, Zhan G, **Li J**, et al. Bridging the Gap between Newton-Raphson Method and Regularized Policy Iteration[J]. arXiv preprint arXiv: 2310.07211, submitted to IEEE Transactions on Cybernetics, 2023.
- [18] Wang W, Zhang Y, Gao J, Jiang Y, Yang Y, Zheng Z, Zou W, **Li J**, et al. GOPS: A general optimal control problem solver for autonomous driving and industrial control applications [J]. Communications in Transportation Research, 2023, 3: 100096.