- 1. Data-driven economic NMPC using reinforcement learning
- 2. Safe reinforcement learning using robust MPC
- 3. Practical reinforcement learning of stabilizing economic MPC
- 4. <u>Safe reinforcement learning via projection on a safe set: How to achieve optimality?</u>
- 5. Reinforcement learning for mixed-integer problems based on mpc
- 6. Reinforcement learning-based tracking control of usvs in varying operational conditions
- 7. MPC-based reinforcement learning for economic problems with application to battery storage
- 8. Reinforcement learning-based NMPC for tracking control of ASVs: Theory and experiments
- 9. Reinforcement learning based on mpc and the stochastic policy gradient method
- 10. Reinforcement learning based on scenario-tree MPC for ASVs
- 11. Reinforcement learning based on MPC/MHE for unmodeled and partially observable dynamics
- 12. Reinforcement learning of the prediction horizon in model predictive control
- 13. Combining system identification with reinforcement learning-based MPC
- 14. Learning for MPC with stability & safety guarantees
- 15. Multi-agent battery storage management using MPC-based reinforcement learning
- A new dissipativity condition for asymptotic stability of discounted economic MPC
- 17. Optimal management of the peak power penalty for smart grids using mpcbased reinforcement learning
- 18. Reinforcement learning based on real-time iteration NMPC
- 19. Approximate robust NMPC using reinforcement learning
- 20. Bias correction in reinforcement learning via the deterministic policy gradient method for MPC-based policies

- 21. Optimization of the model predictive control meta-parameters through reinforcement learning
- 22. Economic MPC of Markov Decision Processes: Dissipativity in undiscounted infinite-horizon optimal control
- 23. Convex neural network-based cost modifications for learning model predictive control
- 24. Q-learning of the storage function in economic nonlinear model predictive control
- 25. Verification of dissipativity and evaluation of storage function in economic nonlinear MPC using Q-learning
- 26. Equivalence of Optimality Criteria for Markov Decision Process and Model Predictive Control
- 27. Safe reinforcement learning using Wasserstein distributionally robust MPC and chance constraint
- 28. Bias correction in deterministic policy gradient using robust MPC
- 29. Stability-constrained Markov decision processes using MPC
- 30. Quasi-Newton iteration in deterministic policy gradient
- 31. Optimization of the model predictive control update interval using reinforcement learning
- 32. Functional Stability of Discounted Markov Decision Processes Using Economic MPC Dissipativity Theory
- 33. Policy Gradient Reinforcement Learning for Uncertain Polytopic LPV Systems based on MHE-MPC
- 34. Variance-based Exploration for Learning Model Predictive Control
- 35. Bridging the gap between QP-based and MPC-based Reinforcement Learning
- 36. Learning-based State Estimation and Control using MHE and MPC Schemes with Imperfect Models
- 37. Bias Correction of Discounted Optimal Steady-State using Cost Modification
- 38. A Painless Deterministic Policy Gradient Method for Learning-based MPC
- 39. Model-free Data-driven Predictive Control Using Reinforcement Learning (IFAC 2023, Proceeding to appear)

- 40. Reinforcement Learning for MPC: Fundamentals and Current Challenges (IFAC 2023, Proceeding to appear)
- 41. Model-free Data-driven Predictive Control Using Reinforcement Learning (CDC 2023, Proceeding to appear)