

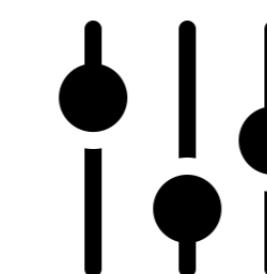
CommonPower

A Python library to benchmark safe controllers for energy management and economic dispatch

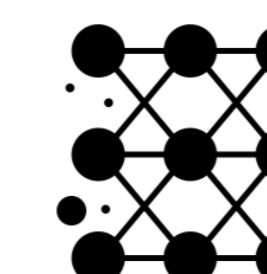
Adaptive model-based safeguarding mechanism



Built-in model predictive controller



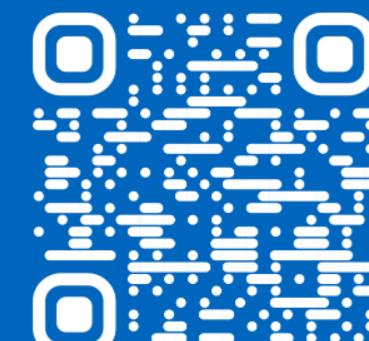
Interfaces for single/multi-agent reinforcement learning



Interfaces for diverse data sources and forecasting models



Large selection of predefined component models



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Hannah Markgraf
Matthias Althoff

TUTORIAL SUMMARY

- Learn how to use CommonPower to **benchmark an RL agent and an MPC controller** on a building management use case
- Understand the importance of **safeguarding RL algorithms** for power system control
- Assess the impact of using flawed forecasts on controller performance

LIBRARY OVERVIEW

