

Offline control of lab pond setup

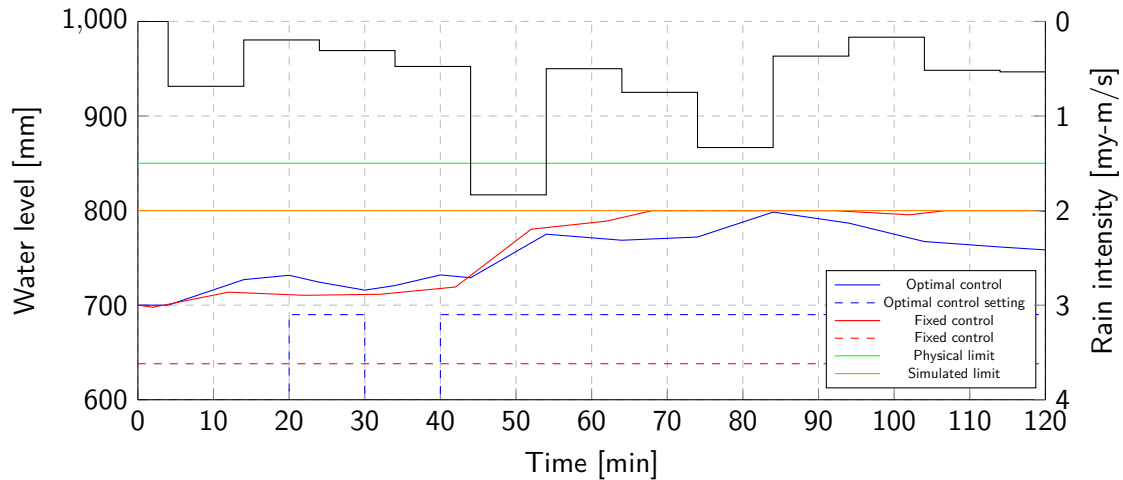
Experiment design and results

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Experiment design

- Offline control: i.e., a strategy is synthesized for a fixed period and then followed for the full period.
- Experiment duration: 120 minutes.
- Rainfall data: first 120 minutes of the data.
- Initial water level: 700 mm.
- Simulated water limit: 800 mm.
- Physical water limit of setup: 850 mm.
- Optimization cost function: $\min \mathbb{E}(o)$, where o is the accumulated overflow duration.
- Fixed outflow is setting 2 (approx. 50% of pump capacity).

Simulation results



Experimental results

