

Soft Robots

For Safety

Model-Free Control of Soft Robots

[Morimoto et al. 2021]
[Jitoshio et al. 2023]
[Pierallini et al. 2023]
[Alessi et al., 2024b]

Model-Based Control of Soft Robots

[Della Santina et al. 2020c]
[Caesenbrood et al. 2023]
[Della Santina et al. 2023]

This Thesis

Optimal Control with Learned Models

[Aswani et al., 2013]
[Kabzan et al., 2019]
[Hewing et al. 2020]
[Taylor et al., 2020]

Machine Learning *For Expressiveness*

Model-Based Control *For Guarantees*