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### Research Theme

Control of safety-critical systems: advancing fundamental understanding, developing data-driven optimization and learning algorithms, safety verification of learning-based algorithms

### Research Areas

Advancing theory and algorithms for:

- Safe optimization and control
- Data-driven optimization and control
- Learning in multi-agent systems
- Safety verification of learning-based control systems
- Hybrid (mixed logic dynamics) systems optimization and control

### Research Facilities/Tools

Verification of the developed theory and algorithms on the following applications:

- Autonomous driving
- Power markets
- Search & rescue robotics
- Biomedical systems