



Professor Melanie Zeilinger

«I believe that our team not only is a collection of outstanding researchers, but also has an exceptional group dynamic and mentality. We enjoy tackling and discussing scientific problems and focus on collaboration rather than competition.»

Intelligent Control Systems

Institute for Dynamical Systems and Control

Our research enables safety-critical control systems to leverage the potential of data and adaptation, in order to address high performance requirements in the face of increasing complexity, uncertainty and interaction. We have a strong theoretical and methodological focus, but collaborate with diverse industry partners and fields of application, ranging from robotics to energy to biomedical systems, to demonstrate the impact of our results.

Focus

- Safe learning-based control
- Control for complex system networks
- Personalized control systems

Tools and methods

- Control and systems theory
- Optimization
- Machine learning
- Proofs, algorithms, experiments

Further details online:

www.idsc.ethz.ch/research-zeilinger

