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Data-Driven Dynamics and Control

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- Data and signal processing
- System identification
- Dynamical sensing and measurement
- Discrete dynamical systems

Dynamics of Continuum

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- Combustion dynamics
- Sensing, measurement and devices
- Thermoacoustic vibrations

Complex Networks and Systems

- Network dynamics and control
- Synchronization and collective behavior
- Networks of networks
- Consensus tracking

Design for Dynamics

- Dynamical failures and fatigues
- Structural dynamics and reliability
- Vibration testing and validation
- Multi-body dynamics
- Wave propagation and acoustics

Biological and Biomedical Physics

- Biological dynamics and biophysics
- Dynamics of bio-systems
- Neuro and brain dynamics
- Biomechanical systems and devices

Chemical Dynamics

- Dynamic chemical networks
- Mechanism of chemical reaction
- Molecular dynamics
- Process modelling and design

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