

Intelligent Machines

Computer science

- Parallel programming
- Distributed systems*
- Advanced algorithms**

Cognitive science and machine learning

- Neural networks/Deep learning*
- Machine learning/ Pattern recognition
- Neuroscience: Learning, Memory and cognition
- Causal inference*

Control and Signal processing

- Robotic control 1
- Dynamical systems
- Adaptive filters
- Computer vision/Image processing

Mathematics

- Convex optimization (Graduate)/Numerical optimization
- Random process
- Estimation and detection theory
- Fuzzy logics

Optional courses

Block chain, Speech processing, Image processing, Optimal control, Information theory, Statistical learning theory.