

Prof. Guisheng Zhai

Laboratory name

Coordinated Control Laboratory

Keyword

Decentralized Control Theory, Multi Agent System, Switched Systems and Control

Tasks in the laboratory

Perform theoretic research and numerical simulations with MATLAB/Simulink in the area of control theory and optimization.

The topics are focused on decentralized control and large-scale systems, multi-agent systems and control, switched and hybrid systems, etc.

Moreover, the theoretic results are expected to be applicable for mechanical systems including intelligent robots and vehicles.

Program period

More than 3 months

Eligibility-school year

- Third year undergraduate
- Fourth year or higher undergraduate
- First year master degree
- Second year or higher master degree
- First year doctoral degree
- Second year doctoral degree
- Third year or higher doctoral degree

Eligibility-student's major/fields

- Mechanical
- Chemistry
- Material
- Electrical
- Electronic
- Computer Science
- Lifescience
- Mathematical
- Civil Engineering
- Architecture
- Engineering and design

Required skills

Modern control theory, Mathematical programming

Desired skills (Preferred skills)

MATLAB/Simulink simulation

URL: https://www.shibaura-it.ac.jp/en/research/lab/systems/mathsci/guisheng_zhai.html

Email: zhai@shibaura-it.ac.jp