

Professor Name

Kazuhisa Ito

Laboratory name

Environment System and Control Laboratory

Laboratory Website

<https://www.shibaura-it.ac.jp/en/research/laboratory/00001.html>

Keyword

System control, Adaptive control, Optimal control, Agriculture engineering, Fluid power system, Energy saving

Tasks in the laboratory

* Controller designs and experiments on agriculture engineering and fluid power systems, including system identification, adaptive control, model predictive control, and data-driven control

*Advanced control theory including system identification (concurrent learning) and nonlinear control

Program period

more than 3 months

Required skills

basic knowledge of control engineering and linear algebra

Desired skills (Preferred skills)

basic skills of C language and MATLAB/Simulink

Eligibility-school year

- Bachelor 3rd
- Bachelor 4th or higher
- Master 1st
- Master 2nd
- PhD 1st
- PhD 2nd
- PhD 3rd

Eligibility-student's major/fields

- Mechanical
- Chemistry
- Material
- Electrical
- Electronic
- Computer Science
- Life Science
- Mathematical
- Civil Engineering
- Architecture
- Engineering and design
- Other (Applied mathematics)