

Professor Name

Koichi Gyoda (Mr.)

Laboratory name

Wireless Communications Network Laboratory

Laboratory Website

<https://www.shibaura-it.ac.jp/en/research/laboratory/00085.html>

Keyword

Wireless communications network, Communication protocols, Wireless ad hoc networks, Emergency communications

Tasks in the laboratory

We aim at realization of the safe and secure society by researching and developing wireless communications network that can be used even in such emergency cases. The wireless ad hoc network is expected to be a means of communication in such cases because it can be configured without network infrastructure.

The wireless ad hoc network also can be applied to the communications between rescue robots (especially search robots) in the closed space when a disaster strikes, the inter-vehicle communications on the highway to transfer the accident information and so on.

In addition, we are researching and developing about "What is the most important information in emergency?" and "What technology is needed to achieve such information delivery?".

Program period

1 ~ 6 months

Required skills

Computer programmings (C, C++, Python)

Desired skills (Preferred skills)

Knowledge about computer communications (TCP/IP, etc.)

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 (Communications)