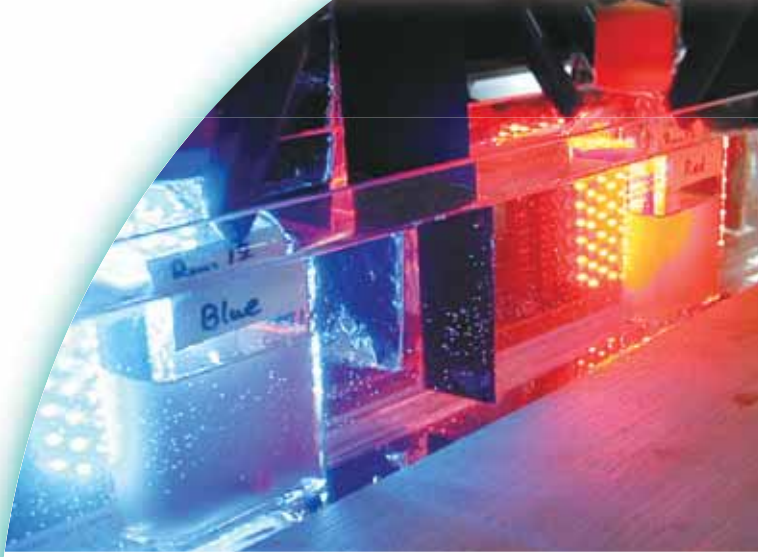


# Engineering



*Associate Professor* Department of Mechanical Engineering

## Eiko Yamamoto

Situated on Rokko Mountain, nature around the Department of Engineering provides us beautiful scenery every season. It is especially beautiful in spring when the cherry blossoms are in full bloom. At Kobe University, many international researchers and students are living life to the full and enjoying Japan. Currently, international students from Malaysia, China, and Mongolia belong to our Creative Design Laboratory. They are advancing their research and learning the Japanese culture

while helping Japanese students. I am now advising a student from Malaysia in the doctoral course with her research. In our laboratory, we are studying about creative design support methods, large-scale systems, their operation methods, and so on. My study themes are engineering concept design support, modeling and simulation of design process, and impression analysis. I am trying to apply natural language processing to these studies. We welcome all researchers and students who have a motivation to study at Kobe University.



International Student Socialist Republic of Viet Nam

## Phuong Thi Viet Nguyen

I came to know Kobe University through one of my friends who is studying in a doctoral program at the university. After entering Kobe University, I felt that the school has good environment for both studying and research. My professors have been quite helpful, the facilities are magnificent with easy access to all the research materials I needed. The campus, which is

located on the Rokko Mountain, is exceptionally peaceful, where you can enjoy quite a scenic view. Another benefit of being a student at Kobe University is its international atmosphere---here I have had opportunities to meet and make friends with many international students from all over the world. I would recommend Kobe University to anyone who is considering a chance to study in Japan.

### Faculty of Engineering

The Faculty of Engineering was established in 1949, succeeding the former Kobe Technical College, founded in 1921. The Faculty has contributed to the development of modern industrial society in the latter half of the 20th Century through teaching and research. The aim of the Faculty in the new millennium is to produce future researchers and engineers who can contribute to the welfare of humankind using the state-of-the-art technologies. The Faculty has six departments: Architecture, Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Chemical Science and Engineering, and Computer Science and Systems Engineering, each of which consists of several divisions dedicated to specific purposes of education and research. Approximately two-thirds of the students continue on to Master's program for higher degree.

### Graduate School of Engineering

The Graduate School of Engineering, previously part of the Graduate School of Science and Technology was organized in April 2007 as a separate graduate school aiming at providing engineering knowledge, fundamental and applied technologies directly related to development of symbiotic and sustainable society. Departments in the Graduate School of Engineering are arranged in the same way as in the Faculty of Engineering to offer a consistent educational

system from undergraduate to graduate programs.

The Graduate School of Engineering offers Master's and Doctor's Degree Programs in the following six departments: Architecture, Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Chemical Science and Engineering, Computer Science and Systems Engineering. By covering a wide range of specialized and interdisciplinary fields (environment, nanomaterial, information and telecommunication, life science, energy, robot, safety etc.), the six departments create new technologies for the betterment of the society.

### Master's Degree Program

The Graduate School of Engineering is committed to cultivate human resources with a wide range of knowledge in their specialized field, and interdisciplinary perspectives. The school especially focuses on fostering researchers and highly specialized professionals who are rich in creativity, and broad in perspectives. Students receive a Master's Degree in Engineering upon completion of this program.

#### Features:

- Highly specialized main courses established through further development and deepening of the undergraduate engineering courses.
- Education in the area of integrated

engineering with a number of advanced courses for interdisciplinary engineering education.

- Fostering of human resources educated through multi-major course (a major and several sub-majors).
- Medical Engineering Course for people who hold a full time job. (Master program to foster core human resources for manufacturing)

### Doctor's Degree Program

Further developing and deepening of courses offered in the Master's Degree Program. This program is to foster researchers, academic members of higher education and research institutions, and highly specialized professionals who are highly creative, international-minded, and have an excellent ability to establish, explore, and solve problems by themselves. A Doctor's Degree, either a Dr. of Engineering or a PhD will be granted upon completion of the program.

#### Features:

- A strict coursework of research for dissertation.
- Finding problems, designing research plans, conducting research, organizing research results, finding possible ways to solve unsolved problems and then organizing and reporting these possibilities.
- Fostering of human resources educated through multi-major course (a major and several sub-majors)

### Undergraduate Program

Departments	Divisions
Architecture	<ul style="list-style-type: none"> <li>• Spatial Design</li> <li>• Architectural Planning, History and Theory</li> <li>• Engineering of Building Structures</li> <li>• Architectural Environmental Engineering</li> </ul>
Civil Engineering	<ul style="list-style-type: none"> <li>• Engineering of Human Safety and Security</li> <li>• Engineering of Environmental Symbiosis</li> </ul>
Electrical and Electronic Engineering	<ul style="list-style-type: none"> <li>• Computer and Information Engineering</li> <li>• Physical Electronics</li> </ul>
Mechanical Engineering	<ul style="list-style-type: none"> <li>• Thermo-Fluid Dynamics</li> <li>• Mechanics and Physics of Materials</li> <li>• Design and Manufacturing</li> </ul>
Chemical Science and Engineering	<ul style="list-style-type: none"> <li>• Applied Chemistry</li> <li>• Chemical Engineering</li> </ul>
Computer and Systems Engineering	<ul style="list-style-type: none"> <li>• Informatics</li> <li>• Information Systems</li> <li>• Systems Design</li> </ul>

### Graduate School of Engineering

Departments	Divisions	Outlines
Architecture	<ul style="list-style-type: none"> <li>• Spatial Design</li> <li>• Architectural Planning, History and Theory</li> <li>• Engineering of Building Structures</li> <li>• Architectural Environmental Engineering</li> </ul>	• A study to create a social living space rich in amenity, convenience, and harmony with environment.
Civil Engineering	<ul style="list-style-type: none"> <li>• Engineering of Human Safety and Security</li> <li>• Engineering of Environmental Symbiosis</li> </ul>	• A study to improve the safety of city and urban space, and the promotion of environmental symbiosis.
Electrical and Electronic Engineering	<ul style="list-style-type: none"> <li>• Physical Electronics</li> <li>• Computer and Information Engineering</li> </ul>	• A study to develop new technologies to support information society (electronic material, electronic information device, information processing technology etc.)
Mechanical Engineering	<ul style="list-style-type: none"> <li>• Thermo-Fluid Dynamics</li> <li>• Mechanics and Physics of Materials</li> <li>• Design and Manufacturing</li> </ul>	• A study to apply principles of physics to analysis, design, manufacturing, and maintenance of mechanical systems.
Chemical Science and Engineering	<ul style="list-style-type: none"> <li>• Applied Chemistry</li> <li>• Chemical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• A study to create functional substances, and the identification of their mechanisms.</li> <li>• A study to create and advance substance production process.</li> </ul>
Computer Science and Systems Engineering	<ul style="list-style-type: none"> <li>• Informatics</li> <li>• Information Systems</li> <li>• Systems Design</li> </ul>	• A study to create the next generation intellectualized information systems through creative processes.

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