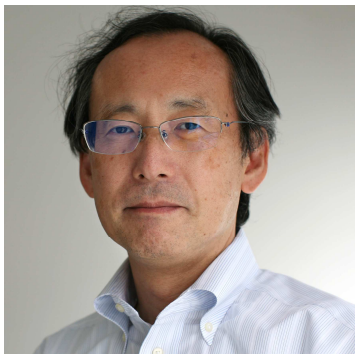
Prof. Dr. Toshiharu Ikaga

Head of Department, System Design Engineering

Faculty of Science and Technology, Keio University



Date of Birth: March 9, 1959

Fields of Expertise:

Sustainable Building Design & Building Service System Design, Life Cycle Assessment (LCA), Environmental Efficiency Assessment (CASBEE), Health Promotion, Workplace Productivity

Professional Experience

2006 – present	Professor, System Design Engineering, Keio University
2000 – 2005	General Manager, Environmental Engineering Group, Nikken Sekkei Ltd.
2000	Doctor of Engineering, University of Tokyo
1998 – 2000	Associate Professor, Institute of Science and Technology, University of Tokyo
1983 – 1998	Senior Mechanical Engineer, Nikken Sekkei Ltd.

Special Assignments

2008 – present	Cooperation member, Science Council of Japan
2015 – present	Deputy chair, Sub-committee on Low Carbon and Wellness City, Science Council of Japan

About the Department of System Design Engineering

The goal of System Design Engineering lies in the creation of innovative technologies through the interaction of basic elements in engineering. This can be likened to a variety of great trees sprouting from the basic, essential subjects at their roots. The department strives to develop a new paradigm for system design engineering to be diffused widely in society, ranging from nano-technology to the universe. This paradigm encompasses a broad range of fields such as nano-technology, mechatronics, robotics, energy, environment, cutting-edge manufacturing technology, control systems, architecture, spatial design, information networks, and aerospace engineering. In addition, this new paradigm calls for interdisciplinary learning and research methods. System Design Engineering creates the possibility for cooperation and coordination across disparate disciplines.

We aim to build a new and interdisciplinary engineering field that is open to humans and society. In order to make it happen, in addition to an analytical-based dimension to explore the essence of phenomena that conventional engineering used to have and a design and synthesis-based dimension that is based on laws and logic, a 3 dimensional expansion should be considered by adding one more axis that is a harmony with various environments that surround systems. In such dimensional expansion, the essence of Department of System Design Engineering is to think about system analysis and design.