

Department of Computer Science Distinguished Lecture Series 2019/20



Prof. Toru Ishida

Professor
Faculty of Science and Engineering
Waseda University, Japan

12 November 2019 (Tuesday) 11:30am-12:30pm

WLB104, Lam Woo International Conference Centre, Shaw Campus, HKBU

Can We Educate People to be Innovative?

Abstract

The global society is facing complex problems such as global warming, disasters, energy, food, population, and so on. To seek solutions, we need to develop specialists capable of designing systems and architectures for societies in collaboration with experts from different research fields.

In 2013, "Collaborative Graduate Program in Design" started in Kyoto University (so called Kyoto University Design School). In this program, we educate experts in Cyber (such as informatics) and Physical (such as engineering) fields to develop their problem finding/solving skills in collaboration with experts in management, psychology and arts. Cross-disciplinary courses on design theory and methods have been introduced: field-based/problem-based learning (FBL/PBL), leadership training courses including field internships, as well as various academia-industry education activities in order to develop talent with a broad view and creativity.

In 2018, undergraduate courses called "Social and Human Innovation by Practical Science and Engineering" (so called SHIP) started in Waseda University. We are now developing workshops connected to specialized courses in science and engineering.

This talk presents experiences on interdisciplinary design education for both graduate and undergraduate students.

Reference:

Toru Ishida, Tetsuo Sawaragi, Kumiyo Nakakoji and Takushi Sogo. Interdisciplinary Education for Design Innovation. IEEE Computer, Vol. 50, No. 5, pp. 44-52, 2017.

Biography

Toru Ishida is a professor of Faculty of Science and Engineering, Waseda University. His academic background includes a professor of of Kyoto University from 1993 to 2019, visiting scientist/professor positions at Columbia University, Technische Universitaet Muenchen, Universite Pierre et Marie Curie, University of Maryland, Shanghai Jiao Tong University, Tsinghua University, Xinjiang University and Hong Kong Baptist University. He experienced a vice president of IEICE, and a member of the Science Council of Japan. He was a co-founder of the Department of Social Informatics, Kyoto University, and the Kyoto University Design School. His research interest lies with multi-agent systems and modeling collaboration within human societies. He contributed to create AAMAS/ICMAS/PRIMA conferences on Autonomous Agents and Multi-Agent Systems. His projects include Community Computing, Digital City, Intercultural Collaboration and the Language Grid. He is a fellow of IEEE, IEICE and IPSJ. In 2014, He was awarded Distinguished Professor of Science by Hong Kong Baptist University.

