

KEYNOTE SPEECH

Date August 4, 2014 9:15-10:00
Speaker Professor Hidekazu Nishimura
Title MOVIC Systems Design toward
Socio-Technical Systems



Abstract

MOVIC has been the most important technique to improve quality characteristics such as preciseness, comfortability or operability in the field of industrial robots, vehicles or construction machines. In the last decades, since socio-technical systems have been attracted in terms of low-carbon society, energy efficiency or safety problems all over the world, the role of MOVIC has been getting more and more important. In my keynote speech, systems design by utilizing the MOVIC related technologies in socio-technical systems will be emphasized. Nowadays our life have been already involved in cyber-physical systems and also engineers should develop products or services in the highly complex relationship among the various stakeholders. Structural control toward resilient societies, vehicle motion control toward autonomous vehicle societies, factory automation toward Industry 4.0, and wind turbine control toward smart grid and smart city would be discussed to hold appropriate quality characteristics such as safety, reliability or maintainability.

Biography

Hidekazu Nishimura obtained a Ph.D. in Mechanical Engineering at the Graduate School of Science and Technology, Keio University in 1990. He was an associated professor at Chiba University from 1996 before leaving in 2007. He was a visiting researcher at Delft University of Technology in 2006, and a visiting associate professor at the University of Virginia in 2007. He is now a professor in Graduate School of System Design and Management, Keio University. His interest includes Model-based Systems Engineering, Systems Safety and Systems Control Design. JSME Fellow.