

The Department of Mechanical Engineering/College of  
Engineering and Applied Sciences  
Stony Brook University

## Mechanical Engineering Seminar



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Department of Mechanical Engineering  
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### Lecture Title: Where Future Robots Should Go and Should Not Go?

Friday, September 3, 2PM, Room 173 Light Engineering

#### Abstract

"Where future robots should go and should not go?" and "what is an adequate style of collaboration between human and robots?" These questions are really interesting for discussing the future direction of robot, especially from the design point of view. While it is really hard to find a general answer for these questions, we try to provide our answers, particularly focusing on manipulation area, by reviewing our former works and exploring a success example of robot business.

#### Biography

Makoto Kaneko is a Professor in the Department of Mechanical Engineering at Osaka University. In 1981 he received his Ph.D. degree from the University of Tokyo. From 1990 to 1993 he was an Associate Professor at Kyushu Institute of Technology and from 1993 to 2006 he was Professor at Hiroshima University. Dr. Kaneko's research encompasses high speed hyper human technology which supports to develop a system capable of exceeding human capability. Especially, he is interested in dynamic active sensing by utilizing a high speed camera and a high speed actuator, and their implementation into medical system for exploring a new direction of medical diagnosis. He served as the Editor-in-Chief of Journal of Robotics and Mechatronics, an associate editor of the IEEE Transaction on Robotics and Automation, and an editorial member of Robotics and Automation Magazine. Dr. Kaneko is currently serving as a part editor of an upcoming international handbook of robotics and also co-authored a chapter on robot hands. He was the Director of the Hyper Human Research Project Center and the Project Leader of the 21st century COE on "Hyper Human Technology toward the 21st Century Industrial Revolution". He was a Vice President of IEEE Robotics and Automation Society during 2004 through 2005. He published over 170 journal papers and 180 conference papers. He got 21 awards including Humboldt Research Award, IEEE Best Conference Paper Awards (ICIA, ICRA, ISATP) and IEEE RAS Best Transactions Paper Award.

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