Small World Exploration by Micro and Nano Robotics – Micro and Nano Manipulation and Applications

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Abstract: There are many robotic research and development works in the world. In particular, the exploration by micro and nano robots in the small world will give different applications to robotic fields, such as ultra precision engineering, medical and biological fields. This talk will include the following topics:

1. Medical robots and simulators
2. Nano robotic manipulator for nano assembly

Host: Hiro Mukai

Monday, September 13, 2010
9:00 – 10:30 a.m.
Bryan Hall, Room 305
(Light refreshments)

Bio: Toshio Fukuda graduated from Waseda University, Tokyo, Japan in 1971 and received the Master of Engineering degree and the Doctor of Engineering degree both from the University of Tokyo, in 1973 and 1977, respectively. Meanwhile, he studied at the graduate school of Yale University from 1973 to 1975.

At present, he is Professor of Dept. of Micro System Engineering and Dept. of Mechano-Informatics and Systems, Nagoya University, Japan. He is mainly engaging in the research fields of intelligent robotic system, self-organizing system, micro robotics, robotic system under hostile environment, bio-robotic system, neuromorphic intelligent control, fuzzy control, control of mechanical systems and technical diagnosis.