

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

Mechanical Engineering Seminar



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Associate Professor

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(Department of Mechanical Systems Engineering)
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**Lecture Title: Research at the Optomechatronics Lab., Tokyo
University of Agriculture and Technology, Japan**

Friday, October 24, 2008, 2:30 PM, Room 231 Engineering Building

Abstract

Optomechatronic can be achieved by an interdisciplinary integration of technologies of mechanics and electronics based on optics and photonics. Our group focused on a study of 3D profilometry, spectroscopic polarimetry for birefringence and Mueller matrix measurement, and novel light driven actuators and manipulator. We will present our recent research on the topic of uni-axis 3D profilometry using liquid crystal grating and nano structure detection using Mueller matrix polarimetry.

Biography

Yukitoshi OTANI is an associate professor at Tokyo University of Agriculture and Technology. He received his bachelor's and master's degrees from Tokyo A&T University, Japan in 1987 and 1990, respectively. He received his doctor's degree from the University of Tokyo in 1995. After working for a brief period at HOYA Corp., Tokyo, he joined the Department of Mechanical Systems Engineering at Tokyo A&T University as a research associate. His current interests include optomechatronics; especially 3D profilometry and polarization analysis and optical actuator and manipulator.

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