

学术报告会

时间: 2015年3月13日(周五)13:30

地点: 电院群楼2-410会议室

Bionic Robots for Understanding Intelligence

Prof. Koh Hosoda
Osaka University, Japan



Abstract:

Humans and animals exhibit really adaptive behavior in the natural environment. The performance of artificial robots is not comparable to it yet. Since the nature searches optimal solutions for realizing behavior by evolution, we can realize adaptive robots and understand the principle for adaptation by mimicking the nature and by picking up the principles. In the talk, I would like to introduce our trials to realize human/animal like muscular-skeletal robots, Bionic Robots, to understand natural adaptive behavior and to reproduce such behavior by robots.

Biography:

Koh Hosoda received his Ph.D. degree in Mechanical Engineering from Kyoto University, Japan in 1993. He was an assistant professor of Mechanical Engineering Department from 1993 to 1997, and an associate professor of Graduate School of Engineering from 1997 to 2010, at Osaka University. He was a guest professor in Artificial Intelligence Laboratory, University of Zurich from Apr. 1998 to Mar. 1999. He was a group leader of JST Asada ERATO Project from 2005 to 2010. From 2010 to 2014, he was a professor of Graduate School of Information Science and Technology, Osaka University. Since 2014, he has been a professor of Graduate School of Engineering Science, Osaka University. He was working on Dynamical control of flexible manipulators, visual servoing, manipulation, and robot hands. Currently, he is working on bio-inspired/ bio-mimetic robots for understanding intelligence.