Sierra 2334 from 3 pm Thursday Feb 8th

Introduction to EURObotics: Towards Safe Human-Robot Interaction



Abstract: Recent advances in robotics target to bring the robots outside the laboratory environment and practically involve them into human life activities. As the need for robots to deal with potential interactions to human has become an important virtue, compliance/softness in robotics system is naturally highlighted. This talk will focus on demonstrating diverse research on the safe-human

robot interaction which has been performed in Europe as one of major robotics research lines. Several relevant European project will be introduced, and robotic platforms developed in Advanced Robotics Department of Istituto Italiano di Tecnologia (Italian Institute of Technology in English, IIT) will also be presented. The IIT with its headquarters in Genova, Italy, is a non-profit institution with the primary goal of creating and disseminating scientific knowledge and strengthening Italy's technological competitiveness. The Advance Robotics Department is the home of iCub, COMAN, and WALK-MAN humanoid robots.

Biography: Jinoh Lee received the M.Sc. and the Ph.D. degrees in Mechanical Engineering from KAIST, South Korea, in 2012. Since 2012, he has joined the Department of Advanced Robotics, Istituto Italiano di Tecnologia (IIT), Genoa, Italy, as a postdoctoral researcher, and was awarded a competitive grant from the National Research Foundation (NRF) of Korean Government, titled as 'Fostering next generation researchers program' from 2013-2014. He is currently a Research Scientist involved in projects such as Whole-body Adaptive Locomotion and Manipulation (WALK-MAN) funded under the European Commission. He was also a member of TEAM WALK-MAN participating to DARPA Robotics Challenge Finals, where contributions have been made to develop various manipulation skills on the humanoid as a leader of manipulation group. His research has been concerned with whole body manipulation of humanoid robots, compliant robotic system control for safe human-robot interaction, dual-arm dexterous manipulation, robust control of highly nonlinear systems, and smart and soft actuators.