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SRG 2010 PUBLIC LECTURE

28 Jan 2010, 15:00-15:45, Republic Polytechnic

Robots Among Humans

Professor Oussama Khatib
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President, International Foundation of Robotics Research

Abstract

Robotics is rapidly expanding into the human environment and vigorously engaged in its new emerging challenges. From a largely dominant industrial focus, robotics has undergone by the turn of the new millennium a major transformation in scope and dimensions. This expansion has been brought about by the maturity of the field and the advances in its related technologies. The new generation of robots is expected to safely and dependably co-habitat with humans in homes, workplaces, and communities, providing support in services, entertainment, education, health care, manufacturing, and assistance. Interacting, exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. New design and fabrication concepts, novel sensing modalities, effective planning and control strategies, modeling and understanding of human motion and skills are among the key requirements discussed for the development of this new generation of human-friendly robots.

About the Speaker

Professor Oussama Khatib received his PhD in 1980 from Sup'Aero, Toulouse, France. An IEEE Fellow who served as a distinguished lecturer of IEEE and recipient of the JARA Award, he was the Program Chair of ICRA2000 (San Francisco) and Editor of "The Robotics Review" (MIT Press) and served as the Director of the Stanford Computer Forum, an industry affiliate program. He is the President of the International Foundation of Robotics Research, IFRR, Editor of STAR, Springer Tracts in Advanced Robotics, and Editor of Springer Handbook of Robotics. His current research is primarily in human-centered robotics, haptic interactions, and human-friendly robot design.

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Institute of Technical Education, Nanyang Polytechnic, Nanyang Technological University, National University of Singapore, Ngee Ann Polytechnic, Republic Polytechnic, Robotic Games Society (Singapore), Singapore Polytechnic, Singapore Science Centre and Temasek Polytechnic.