ICRA 2022
IEEE International Conference on Robotics and Automation
May 23-27, 2022 Philadelphia (PA), USA

Workshop Entitled "Pushing the Boundaries of Workplace Automation: Meaningful Work and Human-Robot Interaction"

Half Day Workshop – Monday 23 May 2022, PM: 1:45 PM - 5:45 PM local time (EDT – Eastern Daylight Time)

The increasing introduction of sophisticated robots in the workplace has long been a debated topic not only in science, technology, and engineering studies but also from an ELSI perspective aiming to ensure that the ethical, legal, social aspects of Robotics are addressed by taking a holistic approach. The workshop stands up as an opportunity to explore and emphasise the Grand Challenges related to the design and development of Robotic Platforms that will achieve complex functionalities in human daily-life scenarios and in professional life. Among the topics that the workshop will investigate: Methodologies using the Human Robot Interaction (HRI) paradigm to analyse Robotics Scenarios and the role of Labour Tasks; Interdisciplinary Methods and Approaches for exploring Robotics Scenarios; Ethical and Societal Aspects of Robotics and Meaningful Work.

Workshop Agenda

Time	Speaker	Talk
1:45 – 2:10	Paolo Dario Sant'Anna School of Advanced Studies, Pisa, Italy	Introduction The Grand Challenges of Robotics
2:10 – 2:35	Flavia Padovani Drexel University, Philadelphia (PA), USA	Meaningful work and workplace automation: What are the implications for a community of robotic and human co-workers?
2:35 – 3:00	Cecilia Laschi National University of Singapore, Singapore	*tbc*
3.00 – 3:25	Tamim Asfour Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	Humanoid Robots at Home and at Work
3:25 – 4:00	Coffee Break	
4:00 – 4:25	Maria Pia Fanti Polytechnic University of Bari, Bari, Italy	Maximizing Convergence Speed for Second Order Consensus in Leaderless Multi-Agent Systems
4:25 – 4:40	Alberto Sanfeliu Universitat Politecnica de Catalunya (UPC), Barcelona, Spain	Robotics and Jobs: A new methodology using the Human Robot Interaction (HRI) paradigm [pre-recorded]

4:40 – 4:55	Kanako Harada The University of Tokyo, Tokyo, Japan	Medical and Surgical Robotics: on the Co-evolution of Human and Robots [pre-recorded]
4:55 – 5:40	Plenary discussion	
5:40 – 5:45	Final remarks	