

Workshop on Robotic Manipulation of Deformable Objects (ROMADO)

2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

-- Invited talk 5 --

Title: Integrating soft robots with the sense of touch

Speaker: Kaspar Althoefer

Bio: Professor Kaspar Althoefer is an electronics engineer, leading research on Robotics at Queen Mary University of London. After graduating with a degree in Electronic Engineering from the University of Technology Aachen, Germany, and obtaining a PhD in Robot Motion Planning from Kings College London, he joined the Kings Robotics Group in 1996 as a Lecturer. Made a Senior Lecturer in 2006, he was promoted to Reader and Professor in 2009 and 2011, respectively. In April 2016, he joined Queen Mary as full Professor of Robotics Engineering. He leads competitively-funded research on soft robotics, intelligent micro-sensing systems and interaction dynamics modelling with applications in minimally invasive surgery, assistive technologies and human-robot interaction, having acquired more than £5.5M as PI from national/international funding bodies and successfully completed 21 PhD projects. Prof Althoefer has authored/co-authored more than 200 peer-reviewed papers. The majority of his journal papers (over 60%) are in the top journals of the field. He is named inventor on five patent applications. He is currently heading a team of five postdoctoral Research Assistants / Fellows and six PhD students. His current research interests are in the areas of robot autonomy, soft robotics, modelling of tool-environment interaction dynamics, sensing and neuro-fuzzy-based sensor signal classification with applications in robot-assisted minimally invasive surgery, rehabilitation, assistive technologies and human-robot interactions in the manufacturing environment.

Speaker Website: <https://www.sems.qmul.ac.uk/staff/k.althoefer/>

Workshop Website: <http://commandia.unizar.es/irosworkshop2020/>

Conference Website: <https://www.iros2020.org/>