

IROS 2020 Workshop Application-Driven Soft Robotic Systems: Translational Challenges

Video presentation of:

Professor Jamie Paik Reconfigurable Robotics Lab (Director) School of Engineering EPFL - Ecole Polytechnique Fédérale de Lausanne

> Presentation Title TBC

Presentation Abstract TBC

Biography

Prof. Jamie Paik is founder and director of the Reconfigurable Robotics Lab (RRL) of Swiss Federal Institute of Technology (EPFL) and a core member of Swiss NCCR robotics group. The RRL leverages expertise in multi-material fabrication and smart material actuation for novel robot designs. She received her PhD in Seoul National University on designing humanoid arm and a hand while being sponsored by Samsung Electronics. This 7-DoF humanoid arm was the lightest in the literature at that time being 3.7kg including the 8-DoF hand. During her Postdoctoral positions in the Institut des Systems Intelligents et de Robotic in Universitat Pierre Marie Curie, Paris VI, she developed laparoscopic tools named JAiMY that are internationally patented and commercialized now by Endocontrol-medical.com. At Harvard University's Microrobotics Laboratory, she started developing unconventional robots that push the physical limits of material and mechanisms. Her latest research effort is in soft robotics including self-morphing Robogami (robotic origami) that transforms its planar shape to 2D or 3D by folding in predefined patterns and sequences, just like the paper art, origami.