

Half-day workshop on Human-centered soft electronics and soft robotics
 9th IEEE International Conference on Soft Robotics (IEEE RoboSoft), 2026
 7th April from 13:45 to 17:30 Japan Standard time, Hotel Kanazawa, Japan

| Timing | Agenda |
|---|---|
| 13:45 – 13:55 | Workshop opening |
| Phase A: Human-centered soft robotics | |
| 13:55 – 14:20 | Talk - 1: Prof. Ryuma Niiyama <i>Inflatable Robots for Soft Human–Robot Interaction</i> |
| 14:20 – 14:45 | Talk - 2: Prof. Yong-Lae Park <i>Soft Wearable Robotic Systems for Motion Sensing and Assistance</i> |
| 14:45 – 15:10 | Talk - 3: Prof. Shingo Maeda <i>A Compact, Self-recovering Electrohydrodynamic Pump for McKibben Artificial Muscle</i> |
| 15:10 – 15:20 | Poster Treasure Presentation |
| 15:20 – 15:45 | Coffee Break + Poster Presentation |
| Phase B: Human-centered soft electronics | |
| 15:45 – 16:10 | Talk - 4: Dr. Virgilio Mattoli <i>Ultra-Thin Technologies for Conformal Electronics and Human-Integrated Devices</i> |
| 16:10 – 16:35 | Talk - 5: Prof. Martin Kaltenbrunner <i>Sustainable materials for human centered robotics and electronics</i> |
| 16:35 – 17:00 | Talk - 6: Prof. Takao Someya <i>Electronic Skins for Soft Robotics and Healthcare</i> |
| 17:00 – 17:10 | Talk - 7: Dr Sneha Rhode Gupta <i>Future of publishing in the field of robotics</i> |
| 17:10 – 17:25 | Panel Discussion |
| 17:25 – 17:30 | Closing Ceremony + Best Poster Award |

| Accepted posters and Information | | | | |
|---|--|--|---|-------------------------|
| S.N. | Authors | Title of the abstract | Affiliation(s) | Presenter's designation |
| <i>Track: Human-centered soft robotics</i> | | | | |
| 1 | <u>Sofia Urbina</u> , Shane T. King, Ghoyah Malembi, Amanda Johnson, Carlos Vela, Erin Mahan, Barclay Jumet, Marquise D. Bell, Marcia K. O'Malley, Daniel J. Preston | Electrode Garment for Rapid and Precise Electrical Muscle Stimulation | Rice University, USA; University of Pennsylvania, USA | PhD student |
| 2 | <u>Rui Chen</u> , Daniele Leonardis, Antonio Frisoli | A soft multi-mode haptic interface with fabric-based pneumatic actuator | Sant'Anna School of Advanced Studies, Italy | PhD student |
| 3 | <u>Rawan Omar</u> , Rebecca Kramer-Bottiglio | Cross-User Textile Wearable Motion Capture via Simulation-Linked Learning | Yale University, USA | PostDoc |
| 4 | <u>DongHyun Oh</u> , Jiseong Shin, Hugo Rodrigue | Optical Soft Sensor for Precise Angular Estimation Using Deep Learning in Wearable Robots | Sungkyunkwan University, South Korea | Master's student |
| <i>Track: Human-centered soft electronics</i> | | | | |
| 5 | <u>Juliette Hars</u> , Josie Hughes | Multi-Material FDM-Printed Lattice Capacitive Sensors with Tunable Mechanical and Sensory Response | École Polytechnique Fédérale de Lausanne, Switzerland | PhD student |
| 6 | <u>Amanda Johnson</u> , Sofia Urbina, Hieu Duc Tran, Daniel J. Preston | Open-Cell Foam-Based Sensing Skin for Intelligent Contact Perception | Rice University, USA; The University of Texas at Austin, USA | PhD student |
| 7 | <u>Jiseong Shin</u> , DongHyun Oh ¹ , Hugo Rodrigue ^{†1} | A Multi-functional Soft Occlusion Optical Sensor for Strain, Pneumatic and Force Sensing | Sungkyunkwan University, South Korea | PhD student |
| 8 | <u>Fan Yang</u> , Hao Liu, Yi Zeng, Yiwen Wang, Masahito Takakuwa, Michitaka Yamamoto, Toshihiro Itoh, Seiichi Takamatsu | Hybrid Polymer-Silicon-Glass Flexible Strain Sensors for Soft Robotic Pipeline Inspection | The University of Tokyo, Japan; State University of New York at Binghamton, UK | PhD student |

Best poster Award Committee

Best Poster Award session chairs



Dr. Sneha R. Gupta
Editor-in-Chief
Advanced Robotics Research, Wiley-VCH



Ilaria Cedrola
PhD Student
Sant'Anna School of Advanced Studies, Italy

Other faculty members and speakers available
during flash talk and poster session...

