

Oral Session

| Keynote/Invited | Presentation NO | Presentation date | Time to start | Time to finish | Account: First name | Account: Middle name | Account: FAMILY NAME | Account: Affiliation | Abstract title |
|---|-----------------|-------------------|---------------|----------------|---------------------|----------------------|----------------------|--|--|
| Chairperson :Toshihiro Hirai (Shinshu University) | | | | | | | | | |
| Keynote | C-5-K25-001 | 25 Sep. | 10:30 | 10:55 | Ronald | Edward | PELRINE | SRI International | New Directions in Dielectric Elastomers |
| Invited | C-5-I25-002 | 25 Sep. | 10:55 | 11:15 | Seiki | Augustine | CHIBA | Chiba Science Institute | Challengers for Loudspeakers Using Dielectric Elastomers |
| Invited | C-5-I25-003 | 25 Sep. | 11:15 | 11:35 | Jaehwan | | KIM | Inha University | Controller-Free and Robust Electro-Active Paper Actuator by Modulated Microwaves |
| | C-5-O25-004 | 25 Sep. | 11:35 | 11:50 | Midori | | KATO | Hitachi, Ltd. | Dielectric elastomer actuators with novel acrylic elastomers |
| | C-5-O25-005 | 25 Sep. | 11:50 | 12:05 | Yoshihide | | SUWA | Obayashi corporation | Evaluation on Drive Ability of Dielectric Elastomer and the Application on Removal of Piled Snow on Solar Panels |
| Lunch 25 Sep. 12:05 13:30 | | | | | | | | | |
| Chairperson : Seiki Chiba (Chiba Science Institute) | | | | | | | | | |
| Keynote | C-5-K25-006 | 25 Sep. | 13:30 | 13:55 | Toshihiro | | HIRAI | Shinshu University | Plasticized Poly(vinyl chloride) Gel as Super Paraelectric Actuator |
| Invited | C-5-I25-007 | 25 Sep. | 13:55 | 14:15 | Seiki | Augustine | CHIBA | Chiba Science Institute | Innovative Wave power Generators Using Dielectric Elastomers |
| | C-5-O25-008 | 25 Sep. | 14:15 | 14:30 | Taishi | | WADA | Yokohama National University | Innovative Electric Generators using Dielectric Elastomers driven by Karman Vortex in Water Flow |
| | C-5-O25-009 | 25 Sep. | 14:30 | 14:45 | Taishi | | WADA | Yokohama National University | Electric Generators using Dielectric Elastomers driven by Propeller Screw in Water Flow |
| | C-5-O25-010 | 25 Sep. | 14:45 | 15:00 | Shozo | | OHTERA | Murata Manufacturing Co., Ltd. | Application of Laminated Actuator with Electrostrictive Polymer |
| Coffee Break 25 Sep. 15:00 15:15 | | | | | | | | | |
| Chairperson : Kinji Asaka (AIST) | | | | | | | | | |
| Invited | C-5-I25-011 | 25 Sep. | 15:15 | 15:35 | Yanlei | | YU | Fudan University | Photodeformable Crosslinked Liquid Crystal Polymers and Light-Driven Soft Actuators |
| Invited | C-5-I25-012 | 25 Sep. | 15:35 | 15:55 | Ivica | | KOLARIC | Engineer | Improvement of the carbon nanotube actuator reproducibility by means of processing simplification |
| | C-5-O25-013 | 25 Sep. | 15:55 | 16:10 | Takushi | | SUGINO | National Institute of Advanced Industrial Science and Technology (AIST) | Actuation of dry-type CNT actuators and their application to a thin and light Braille display |
| | C-5-O25-014 | 25 Sep. | 16:10 | 16:25 | Kenji | | KIYOHARA | National Institute of Advanced Industrial Science and Technology (AIST) | Voltage induced pressure in ionic polymer actuators: A Monte Carlo simulation study |
| Chairperson : Keiichi Kaneto (Kyushu Institute of Technology) | | | | | | | | | |
| Keynote | C-5-K26-001 | 26 Sep. | 10:30 | 10:55 | Toribio | F. | OTERO | Universidad Politecnica de Cartagena | Mimicking muscle/brain feedback communication. One actuator and several sensors in a device: theoretical description. |
| Invited | C-5-I26-002 | 26 Sep. | 10:55 | 11:15 | Frederic | | VIDAL | University of Cergy-Pontoise | Elaboration of Conducting IPN Actuators for Microsystems |
| Invited | C-5-I26-003 | 26 Sep. | 11:15 | 11:35 | Hidenori | | OKUZAKI | University of Yamanashi | Electroactive Polymer Actuators Utilizing PEDOT/PSS |
| Invited | C-5-I26-004 | 26 Sep. | 11:35 | 11:55 | IlKwon | | OH | Korea Advanced Institute of Science and Technology | Durable Ionic Polymer-Graphene Composite Actuator with Graphene Bucky Paper Electrodes |
| Lunch Time 26 Sep. 11:55 13:30 | | | | | | | | | |
| Chairperson : Hidenori Okuzaki (University of Yamanashi) | | | | | | | | | |
| Keynote | C-5-K26-005 | 26 Sep. | 13:30 | 13:55 | Keiichi | | KANETO | Kyushu Institute of Technology | Attractive Features and Prospects of Conducting Polymer Soft Actuators |
| Invited | C-5-I26-006 | 26 Sep. | 13:55 | 14:15 | Wei | | CHEN | Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Science | Large Volume Variation of Anisotropic Graphene Nanosheet Electrochemical-mechanical Actuator under Low Voltage Stimulation |
| Invited | C-5-I26-007 | 26 Sep. | 14:15 | 14:35 | Hyacinthe | | RANDRIAMAHAZAKA | University Paris Diderot | Electromechanical studies of the Bucky-gel Actuators based on Single-Walled Carbon Nanotubes and Ionic Liquids |
| Invited | C-5-I26-008 | 26 Sep. | 14:35 | 14:55 | Kwang | | KIM | University of Nevada | Physics based modeling of IPMC actuation and voltage-sensing |
| Coffee Break 26 Sep. 14:55 15:15 | | | | | | | | | |
| Chairperson : Frederic Vidal (University of Cergy-Pontoise) | | | | | | | | | |
| Invited | C-5-I26-009 | 26 Sep. | 15:15 | 15:35 | Alvo | | AABLOO | University of Tartu | High surface area nanoporous carbide-derived carbon material for low-voltage driven actuators |
| Invited | C-5-I26-010 | 26 Sep. | 15:35 | 15:55 | Kentaro | | TAKAGI | Nagoya University | Energy-Efficient Method for Driving Polymer Actuators with Switching Amplifiers |
| | C-5-O26-011 | 26 Sep. | 15:55 | 16:10 | Cedric | | PLESSE | LPPI - University of Cergy-Pontoise | conducting IPNactuator/sensor for biomimetic perception system in soft robotics |
| | C-5-O26-012 | 26 Sep. | 16:10 | 16:25 | Masaki | | FUCHIWAKI | Kyushu Institute of Technology | Asymmetric Bilayers Conducting Polymer Actuator Exchanging Anions and Cations based on Polypyrrole |

Poster Session

| Presentation NO | Presentation date | Time to start | Time to finish | Account: First name | Account: Middle name | Account: FAMILY NAME | Account: Affiliation | Abstract title |
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| C-5-P26-001 | 26 Sep. | 16:30 | 18:30 | Naohiro | | TERASAWA | National Institute of Advanced Industrial Science and Technology (AIST) | High performance polymer actuators based on activated multi-walled carbon nanotubes that surpass the performance of those containing single-walled carbon nanotubes |
| C-5-P26-002 | 26 Sep. | 16:30 | 18:30 | Satoru | | ENDO | yamanashi Univ. | PEDOT/PSS Actuators Electrically Driven in Air |
| C-5-P26-003 | 26 Sep. | 16:30 | 18:30 | satoshi | | TAKAGI | Yamanashi Univ. | Conductive Polymer/Ionic Liquid/Polyurethane Gel Actuators |
| C-5-P26-004 | 26 Sep. | 16:30 | 18:30 | Asumi | | SUZUKI | Saitama University | Organic photovoltaic cell with PEDOT:PSS/P3HT:PCBM layer fabricated by electrospray deposition method |
| C-5-P26-005 | 26 Sep. | 16:30 | 18:30 | Ken | | MUKAI | National Institute of Advanced Industrial Science and Technology (AIST) | High-Speed low-voltage electromechanical actuators based on carbon nanotubes and ionic liquids |
| C-5-P26-006 | 26 Sep. | 16:30 | 18:30 | Hyonkwang | | CHOI | Inje University | Carbon-based nanocomposite electrode for ionic polymer actuator |