

## AGENDA

Monday, October 22, 2018 | Day 1

08:30-09:00 Registrations & Souvenir Distribution

**Conference Hall**

09:00-09:30

**Opening Ceremony**

**KEYNOTE FORUM**

09:30-10:15

Title: Measurement science and test methods towards robot standards

**Roger Bostleman** | NIST | USA

10:15-11:00

Title: Minimum damage-oriented robotic enucleation for oocytes and cloned piglet produced by robotic SCNT

**Xin Zhao** | Nankai University | China

**Group Photo**

**Networking & Refreshment Break @ 11:00-11:20**

11:20-12:05

Title: Liquid crystal soft robotic elements: Triggered 2D and 3D morphing

**Dirk J Broer** | Eindhoven University of Technology | The Netherlands

12:05-12:50

Title: Biomimetic localization of bone morphogenetic protein-2 bioactivity by chondroitin sulfate

**Baolin Huang** | Guangzhou University | China

**Lunch Break @ 12:50-14:00**

14:00-14:45

Title: Delivering intelligent robotics: The challenge of reactivity, proactivity, adaptivity and collaborative behaviour

**Gregory O'Hare** | University College Dublin | Ireland

Sessions: Conscious Robots | Biomaterials



**Session Chair: Dirk J Broer** | Eindhoven University of Technology | The Netherlands

**Session Introduction 14:45-14:50**

14:50-15:20 Title: Research on a conscious robot

**Junichi Takeno** | Meiji University | Japan

15:20 - 15:50

Title: The impact of intercellular communication in complex pre-vascularized tissue equivalents

**Martin Heller** | Johannes Gutenberg-University of Mainz | Germany

**Panel Discussion 15:50-16:00**

**Networking & Refreshment Break @ 16:00-16:20**

**Poster Presentation 16:20-17:00**

- PP 01 Title: The impact of intercellular communication in complex pre-vascularized tissue equivalents  
**Martin Heller** | Johannes Gutenberg-University of Mainz | Germany
- PP 02 Title: Functional fe-base biodegradable materials for medical applications  
**Cimpoesu N** | Technical University Gheorghe Asachi of Iasi | Romania
- PP 03 Title: Comparative assessment of various scaffolds for the construction of artificial tissues  
**Martin Heller** | Johannes Gutenberg-University of Mainz | Germany

**Panel Discussion**

Tuesday, October 23, 2018 | Day 2

**KEYNOTE FORUM**

10:00- 10:45

Title: Fusion of hard and soft control strategies for a smart prosthetic/robotic hand

**Desineni Subbaram Naidu** | University of Minnesota Duluth | USA

10:45-11:30

Title: Nature inspired path planning for robotics

**Jin-Woo Jung** | Dongguk University | Republic of Korea

**Panel Discussion**

**Networking & Refreshment Break @ 11:30-11:50**

11:50-12:35

Title: Light-fueled microrobots: The winning combination of liquid crystalline elastomers and photolithography

**Parmeggiani C** | University of Florence and LENS | Italy

12:35-13:20

Title: Biomechanical energy harvesting as a base for exoskeleton: Theory, design and results

**Raziel Riemer** | Ben-Gurion University | Israel

**Lunch Break @ 13:20-14:20**

Sessions: Biomechanical Energy & Exo Skeletons | Tissue Engineering



**Session Chair: Desineni Subbaram Naidu** | University of Minnesota Duluth | USA

**Session Introduction 14:20-14:25**

14:25-14:55 Title: Functional fe-base biodegradable materials for medical applications

**Cimpoesu N** | Technical University Gheorghe Asachi of Iasi | Romania

14:55-15:25 Title: Comparative assessment of various scaffolds for the construction of artificial tissues

**Martin Heller** | Johannes Gutenberg-University of Mainz | Germany

**Networking & Refreshment Break @ 15:25-15:45**

**Video Presentation**

15:45 - 16:15 Title: Motion mapping from human arm to an anthropomorphic robot for tele-operation

**Daoxiong GONG** | Beijing University of Technology | China

**Panel Discussion**

**Award Presentations, Thanks Giving & Closing Ceremony**