# OB201826-29 AUG HIGH TECH HUMAN TOUCH

## CALL FOR PAPERS AND WORKSHOPS

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### IEEE BioRob 2018, 26 -29 August 2018, Enschede, the Netherlands 7th IEEE RAS/EMBS International Conference on Biomedical **Robotics and Biomechatronics**

The seventh IEEE International Conference on Biomedical Bobotics and Biomechatronics - BIOROB 2018 -is a joint effort of the two IEEE Societies of Robotics and Automation -**RAS** - and Engineering in Medicine and Biology - **EMBS**.

BIOROB covers both theoretical and experimental challenges posed by the application of robotics and mechatronics in medicine and biology. The primary focus of Biorobotics is to analyze biological systems from a "biomechatronic" point of view, trying to understand the scientific and engineering principles underlying their extraordinary performance. This profound understanding of how biological systems work, behave and interact can be used for two main objectives: to guide the design and fabrication of novel, high performance bio-inspired machines and systems for many different applications; and to develop novel nano-, micro-, and macro- devices that can act upon, substitute parts of, and assist human beings in prevention, diagnosis, surgery, prosthetics, rehabilitation and personal assistance.

#### Major Conference Themes

The theme of BIOROB2018 is high tech human touch. The technical program of IEEE BIOROB2018 will consist of invited talks, special sessions, posters, and paper presentations. Papers can cover areas of Biorobotics and **Biomechatronics including:** 

- **Robotics and Rehabilitation**
- **Biologically-Inspired Robotics**
- **Robotic Surgery**
- Human-Machine Interaction .
- Wearable Technologies •
- Brain-Machine Interface
- Neuroprosthesis

• Robot Companions and Home Care Technology Translationon •

> February 15, 2018 May 15, 2018

June 15, 2018

- Clinical
- Commercialization •
- Human Augmentation •
- Micro-Robotics
- Nano-Robotics

- **Important Dates**
- Full paper submission date: Notification of acceptance date: Final paper submission date: Workshop and tutorial proposal submission deadline:

February 15, 2018 Notification of acceptance of workshops and tutorials: March 22, 2018

For more information and submission visit www.biorob2018.org

#### Venue

BIOROB 2018 will take place at the campus of the University of Twente, in Enschede, The Netherlands. The venue is two hours by train from Schiphol Airport that has frequent direct flights to most countries. With Enschede as the home base, BIOROB delegates are well positioned to explore the Netherlands before and after the BIOROB 2018.