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IEEE Robotics and Automation Society
Huazhong University of Science and Technology
Nagoya University

Technical Co-sponsors:

IEEE Systems, Man, and Cybernetics Society
IEEE Computational Intelligence Society



2022 IEEE International Conference on Cyborg and Bionic Systems

November 24-26, 2022, Ramada Hotel, Wuhan, China

Call for Papers

The main purpose of this conference is to discuss frontier research and realistic application on cyborg and bionic systems, which are concerned with hybrid fusion of organic and biomechatronic body parts with the integration of some artificial components or technology like bio-hybrid actuators and sensors, sponsored by the new TC on Cyborg and Bionic Systems. One of the primary goal is to make an organism restored or enhanced beyond its original biological characteristics. With rapid development of bionic technology and nanotechnology, we think that a cyborg and bionic system can assist human to conquer many limitations such as disease, speed, strength, as well as intelligence.

The topics of interest include, but not limited to the following:

- Micro/Nano Robotics
- Bio-Cell assembly and tissue fabrication
- Micro bio sensor and actuator fabrication
- Bio-energy source and management control
- Brain analysis and neural network
- Neuro-Control and communication
- Rehabilitation robotics
- Prosthesis and exoskeleton robotics
- Medical surgical robots
- Biomimetic robots
- Human 2.0 and human interface
- Cyber-Physical bio-system
- Applications of computational intelligence methodologies

Conference website: www.icbs2022.com

Important Dates:

~~July 15, 2022~~ **September 15, 2022**

August 1, 2022

September 1, 2022

~~September 1, 2022~~ **October 10, 2022**

~~September 20, 2022~~ **October 31, 2022**

Full paper submission

Organized session proposals

Organized session decision

Paper acceptance decision

Final paper due

The program committee will recommend some high-quality papers to the journal of **Cyborg and Bionic Systems**.

Merits of Cyborg and Bionic Systems:

- (1) Article processing charges fully waived.
- (2) Quick publication with efficient review process.
- (3) Broad audience base supported by AAAS's Science Partner Journal Program.
- (4) Strong promotion on Science related platforms and influential technology news websites.

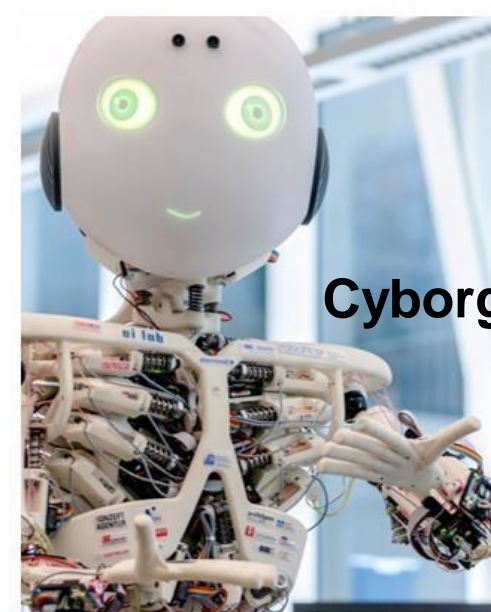


Bio-Cell assembly

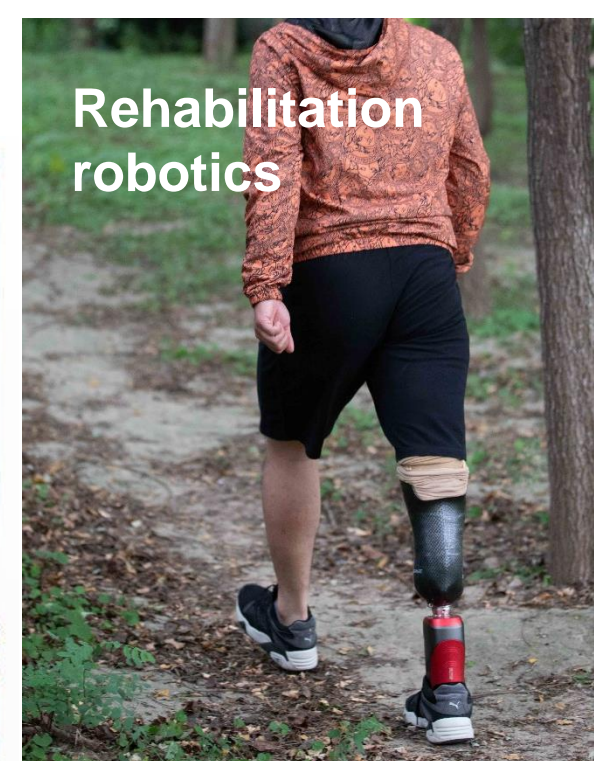


Prosthesis robotics

To meet...



Cyborg



Rehabilitation robotics

Source: www.roboty.org