

*Special Issue on "Cyborg and Bionic Systems"*

Guest Co-Editors:            **Prof. Tasisuke Masuda, Nagoya University, Japan**  
   **Prof. Shi Qing, Beijing Institute of Technology, China**

Publication in Vol. 34, Issue 1 (January 2020)

**Submission deadline: 31 March 2019**

The main purpose of this special issue is to publish 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. One of the primary goals is to make an organism restored or enhanced beyond its original biological characteristics. In particular, the cyborg and bionic systems is a promising research direction to meet the requirements for better life of human beings, such as regeneration medicine, neuro-control, and rescue relief. 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 topic of the special issue includes, but are not limited to

- 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

**Submission:**            The full-length manuscript (either PDF file or MS word file) should be sent by to the office of Advanced Robotics, the Robotics Society of Japan through the homepage of Advanced Robotics (<http://www.rsj.or.jp/AR/submission>). Sample form of the manuscript as well as the Instruction for Authors is available at the homepage.