

International Journal of Automation & Computing (IJAC) Call for Papers

Special Issue on *Robotics and Biomimetics*

Guest Editors:

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Publish in Vol. 10, No.5 (October 2013)
SUBMISSION DEADLINE: March 31, 2013

In the field of robotics research, natural systems are often considered the ultimate model for intelligent robots. Therefore, scientists and engineers have always turned to nature for inspiration. With the fusion of robotics and biomimetics, many advanced robotic systems have been successfully developed in the recent years, which can meet the challenges in a wide range of real-world applications. This represents the interdisciplinary research of diversified fields such as biological sciences, novel materials, smart structures, versatile actuators, micro/nano sensors, friendly user interfaces, intelligent and adaptive control, etc.

This special issue will focus on the theoretical and technological challenges of robotics and biomimetics. Selected papers presented at 2012 IEEE International Conference on Robotics and Biomimetics (ROBIO 2012) will be also invited for consideration of publication in this special issue, at the recommendation of the Program Chair of ROBIO 2012. All submitted papers must be substantially expanded from their conference version and meet the publication requirements of *Advanced Robotics*. All aspects of biologically inspired robots are welcome, including - but not limited to - the following topics:

- Bio-mechanism and control
- Biomimetic robots such as climbing robots, swimming and walking robots
- Biomimetic sensors and actuators
- Tele-robotics and human-robot interaction
- Bio-sensor design, multi-sensor data fusion, and wireless sensor networks
- Medical robotics, biomedical and rehabilitation engineering
- Multi-robot systems and distributed robotics

Submission: PDF format file of the full-length manuscript should be submitted by **31 March 2013** on IJAC ScholarOne Review System (<http://www.ijac.net>). Please select “Special Issue: *Robotics and Biomimetics*” in the submission process. Sample form of the manuscript is available at the homepage. Also, send another copy to Professor **Prof. Huosheng Hu** (hhu@essex.ac.uk) and **Prof. Youngsun Ryuh** (ysryuh@kitech.re.kr) for the submission confirmation.

Contact: IJAC Editorial Office (ijac@ia.ac.cn)

International Journal of Automation and Computing

Editors-in-Chief: Tan, T.; Liu, G.; Hu, H.

ISSN: 1476-8186 (print version)

ISSN: 1751-8520 (electronic version)

Journal no. 11633