

Call for Participation

IROS2013 (Workshop Su-WS-05); Sunday, November 3, 2013; Tokyo, Japan
Biologically Inspired Based Strategies for Hybrid and Multi-Modal Locomotion

This workshop intends to deal with the challenges of applying biologically based concepts to improve the capabilities of robots with a particular focus on hybrid and multi-modal locomotion in air, underwater and on ground. The IEEE Robotics and Automation Society Technical Committee on Bio Robotics is seeking relevant participants, as continuity of the successful previous editions of this workshop held at both IROS2009 and IROS2011.

DATES AND LOCATION

This workshop on Biologically Inspired Based Strategies for Hybrid and Multi-Modal Locomotion will be held on the 3rd of November, 2013, at Tokyo Big Sight, Japan, in conjunction with IROS2013.

WEBSITES

Workshop URL: <http://www.ieee-ras.org/bio-robotics>; <http://tc-biorobotics.com>

IROS URL: <http://www.iros2013.org/tutorials-workshops.html>

LIST OF TOPICS

- Multi-modal ground robots
- Multi-modal locomotion dynamics
- Swimming and amphibian robots
- Multi-modal aerial robots, etc.

KEYNOTE SPEAKERS

- **Bionspiration locomotion dynamics: an overview**
Frédéric BOYER, Ecole des Mines de Nantes, France
- **Multimodal locomotion in the salamander: from biology to robotics**
Auke IJSPEERT, EPFL, Switzerland
- **Unraveling the biofluidynamics of flight as an inspiration for design**
David LENTINK, Stanford University, USA
- **Jumping-gliding based bio-Inspired multi-Locomotion robots**
Metin SITTI, Carnegie Mellon University, USA

INVITED SPEAKERS AND POSTERS

Hilary Bart-Smith, Univ. of Virginia, USA

Kyu Jin Cho, Seoul National Univ., Korea

Jonathan Clark, FAMU/FSU, USA

Dario Floreano, EPFL, Switzerland

Fumija Iida, ETH Zurich, Switzerland

Sangbae Kim, MIT, USA

Kyoungchul Kong, Sogang Univ., Korea

Mirko Kovac, Imperial College London, UK

Kin Huat Low, NTU, Singapore

Matt Spenko, Illinois Institute of Technology, USA

Hiroto Tanaka, Chiba Univ., Japan

James Tangorra, Drexel Univ., USA

F. Wörgötter, Univ. of Göttingen, Germany

Shengyong Chen, Zhejiang Univ. of Tech., China

Tianjiang Hu, NUDT, China

Kamilo Melo, KM-RoBoTa Research Group, Colombia

Samer Mohammed, UPEC, France

Derek Paely, Univ. of Maryland, USA

Shiwu Zhang, USTC, China

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