

Bio-inspired Robots Workshop 2011



International Workshop on Bio-inspired Robots

April 6-8, 2011

Ecole des Mines de Nantes, Nantes, FRANCE

Sponsored by :
CNRS through the RTP
Bionique and GDR Robotique

Bio-inspired robots

General Chair:

Frédéric Boyer, Ecole des Mines de Nantes, FR

General Co-Chair:

Neuro-inspired Control

Auke Ijspeert, Ecole Polytechnique Fédérale de Lausanne, CH

Energetic efficiency and actuators

Cesare Stefanini, Scuola Superiore Santa'Anna, IT

Bio-inspired sensing

Gerhard von der Emde, University of Bonn, D

Kirsty Grant, CNRS-UNIC, FR

Pol-Bernard Gossiaux, Ecole des Mines de Nantes, FR

Jérôme Casas, Université de Tours, FR

Aerial robots

Franck Ruffier, CNRS/Aix-Marseille Univ., FR

Stéphane Viollet, CNRS/Aix-Marseille Univ., FR

Fish-like robots

Alban Leroyer, Ecole Centrale de Nantes, FR

Fabien Candelier, Aix-Marseille Univ., FR

Snake-like robots

Frédéric Boyer, Ecole des Mines de Nantes, FR

Mathieu Porez, Ecole des Mines de Nantes, FR

Live demonstrations

Serge Kernbach, University of Stuttgart, D

A. Girin, Ecole des Mines de Nantes, FR

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Keynote speakers:

Paolo Dario, Scuola Superiore Santa'Anna, IT

Frederic Boyer, Ecole des Mines de Nantes, FR

Hao Liu, Chiba University, JP

Nicolas Franceschini, CNRS/Aix-Marseille Univ., FR

Sten Grillner, Karolinska Institutet, S

Michael S. Triantafyllou, MIT MechE, US

Other speakers are expected...

Call for Posters, Demonstrations & Abstract

The International Workshop on Bio-Inspired Robots will be held April 6-8, 2011 at the Ecole des Mines de Nantes, France. The theme of the workshop is: « **Bio-inspired Robots** », reflecting growing interests in developing autonomous robots inspired from animals. Topics of interest include, but are not limited to:

- Underwater locomotion (swimming like fishes...)
- Aerial locomotion (flying like insects...)
- Terrestrial locomotion (creeping like snakes...)
- Bio-inspired sensing (seeing like flies...)
- Neuro-inspired control
- Energetic efficiency and actuators

Authors are invited to submit posters or (and) abstracts. Best posters or abstracts will be selected for oral presentation. All the accepted posters will be presented in open poster. The Best abstracts will be invited to submit in a special issue of an ISI journal on the topic.

For general and technical program inquiries about the conference, please contact the conference General Chair and/or Program Committee by e-mail at brw@mines-nantes.fr

Posters and abstracts: All posters must be submitted electronically in PDF format by **February 1, 2011**. Detailed instructions for poster and abstract submission and format can be found on the conference web site. Authors are encouraged to provide a link to their websites for a better understanding of their work and submit an abstract in PDF format to apply for special issue.

Live demonstrations: Proposals of robot demonstration must be submitted to the Tutorial Workshop Chair by **February 1, 2011**. The workshop can accommodate most forms of robot locomotion (e.g., walking, swimming, climbing, flying, etc). More information on the workshop venue can be found on the conference website.

Important deadlines:

February 1, 2011	Submission of Poster (and abstract)
February 1, 2011	Submission of Demos
March 1, 2011	Notification for acceptance
March 1, 2011	Notification of Demo Acceptance