



# 13th TAROS 2012 conference

21<sup>st</sup> & 22<sup>nd</sup> August 2012, Bristol, United Kingdom

[www.fira-taros2012.org.uk](http://www.fira-taros2012.org.uk)



## Confirmed Speakers

Professor Sam S. Ge,  
IEEE & IFAC Fellow,  
National University of Singapore/  
University of Electronic Science and  
Technology of China

Professor Alois Knoll  
Technical University of Munich, Germany

## Further Information

Please contact [Guido.Herrmann@brl.ac.uk](mailto:Guido.Herrmann@brl.ac.uk)  
for further details.

We look forward to seeing you in Bristol.  
S. Dogramadzi & M Studley,  
General Co-chairs, TAROS 2012

## Deadlines

Submission deadline: April 08, 2012  
Notification of acceptance: May 25, 2012  
Camera ready copy: June 15, 2012

Conference : August 20<sup>st</sup> - 22<sup>nd</sup>, 2012

## TAROS combined with FIRA in 2012

In 2012, TAROS will be run in parallel with the FIRA-Robo World Cup and FIRA-Robo World Congress creating a significant international one week Robotics event.  
[www.fira-taros2012.org.uk](http://www.fira-taros2012.org.uk)  
General Events Chair: G. Herrmann & Sanja Dogramadzi  
Honorary Chair: Prof. Frank L Lewis, IEEE & IFAC Fellow University of Texas

## Sponsors



## THIRD CALL FOR PAPERS

"Towards Autonomous Robotic Systems"

### ABOUT TAROS

TAROS is the UK's premier annual conference for the dissemination of current research in all aspects of robotics and autonomous robotic systems. This year marks the 13<sup>th</sup> edition of the meeting that welcomes contributions from senior researchers and research students alike. One of the foundations of the TAROS meeting is to provide a platform for young research scientists to present their innovative work to the scientific community.

The proceedings of the 2012 meeting will be published by Springer-Verlag. Submissions will be in the form of full papers or extended abstracts that will be refereed by at least three members of the programme committee. Building upon last years successful introduction of an academic-industry symposium, a similar event will follow the conference this year.

### THE VENUE

TAROS 2012 will be organised by the Bristol Robotics Laboratory, the largest multi-disciplinary robotics facility in the UK with an international reputation as a leading research centre in advanced robotics and close links to other leading research institutes in Europe. The conference itself will take place in the historic Wills memorial building located in the vibrant heart of the University district of Bristol.

The BRL is a joint venture between the University of Bristol (<http://www.bris.ac.uk>) and the University of the West of England (<http://www.uwe.ac.uk>). The University of Bristol is justifiably proud of its teaching and has an excellent record in research. In the 2008 Research Assessment Exercise, 93 per cent of research at Bristol was deemed to be of international standard. The University is also recognised as a leading centre for the exploitation of knowledge through partnership with industry. The University of the West of England is one of Britain's most popular universities, with around 30,000 students and 3,000 staff. UWE has been awarded an increase in research funding of 122 per cent in 2010, which makes it one of the fastest growing research institutions in the UK.

The gateway to the South-West of England, Bristol has a long history as a centre of industry and commerce. Today, 'Silicon Gorge' is home to the UK's largest concentration of silicon designers, second only in the world to the USA, and is at the forefront of developments in next generation mobile phone technology, consumer electronics and wireless communications systems.

### SUBMITTING TO TAROS 2012 - [www.fira-taros2012.org.uk](http://www.fira-taros2012.org.uk)

TAROS 2012 invites both full papers and extended abstracts. All contributions will be refereed. Full papers are invited from researchers at any stage in their career but should present significant findings and advances in robotics research; more preliminary work would be better suited to extended abstract submission. Full papers will be accepted for either oral presentation (single track) or poster presentation. Extended abstracts will be accepted for poster presentation only. Submissions of papers are invited in, but not limited to, the following topics and related areas

- Advanced applications of autonomous robots (industrial and research), Advanced materials
- Advanced medical robotics, robots for surgery, Assistive robotics, Service robotics
- Applications development, Hardware issues, devices and techniques, advanced sensor and actuator
- Autonomous assembly robotics, Autonomous vehicles
- Bio-mimetic and bio-inspired robotics, Bio-hybrid robotic systems, Evolutionary robotics
- Cognitive robotics, Developmental robotics, Personal robotics, Robot communication and language
- Ethical and societal issues in robotics, Robots in education, the arts and entertainment
- Flying robots (unmanned- and micro- air vehicles), Space and planetary robotics
- Humanoid robotics, Human-Robot interaction and interfaces, Legged robots
- Swarm robotics, Collective robots, Field robotics
- Learning and adaptation, Long-term interaction and operation, Intelligent prostheses
- Modelling and analysis of robot models, Modular reconfigurable robots
- Navigation, localization, map building and path planning, Analysis of robot-environment interaction
- Robot autonomy including energy self-sufficiency, Robot control architectures, Robot vision, sensing and perception

### INDUSTRIAL PARTICIPATION

The participation of representatives from industry are welcome both in the main conference and particularly in the academic-industry 1-day symposium immediately following the conference.

Exhibition space is available. Please contact [Guido.Herrmann@brl.ac.uk](mailto:Guido.Herrmann@brl.ac.uk) for further details.

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