

TAROS 2011

12th Conference Towards Autonomous Robotic Systems

31 August - 2 September 2011. Sheffield, United Kingdom

More details and up-to-date information at: <http://www.taros.org.uk/>

ABOUT TAROS

Now in its 12th edition, TAROS is the UK's premiere annual conference for autonomous robotics. The meeting encompasses topics across the entire range of robotics research and is open to worldwide contributors and participants.

TAROS 2011 will be a single-track conference, which includes a limited number of invited talks as well as oral and poster presentations of high quality, original research. Submissions by authors who are new to TAROS are encouraged.

An extra day (Friday 2nd September) has been added to this year's meeting to host a symposium on links between the academic and industrial robotics communities.

PLENARY SPEAKERS

Joseph Ayers (Northeastern University)
Simon Blackmore (UniBots Ltd)
Paul Newman (The Oxford Mobile Robotics Group)

PUBLICATION DETAILS

Accepted full papers and extended abstracts will be published by Springer in the LNAI/LNCS series (<http://www.springer.com/lncs>) and authors will be required to follow the Springer publishing guidelines. The series is listed in various indexing services (e.g., ISI Proceedings, Scopus, INSPEC, and EI).

The journal Robotics and Autonomous Systems will publish a special issue dedicated to TAROS 2011.

ULRICH NEHMZOW BEST PAPER AWARD (In Memoriam of Professor Ulrich Nehmzow, founder of TAROS)

A best paper award will be presented at the conference. The selection is based on the originality and quality of the submission and its potential impact.

SUBMITTING TO TAROS 2011

TAROS 2011 invites both full papers (12 pages, LNCS format) and extended abstracts (2 pages, LNCS format). 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. All contributions will be fully refereed by at least three members of the programme committee. Full papers will be accepted for either oral presentation or poster presentation. Extended abstracts will be accepted for poster presentation only.

Papers are solicited in all areas of robotics, including, but not restricted to:

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

The submission system is now open. Submission instructions are available on <http://www.taros.org.uk/>.

ABOUT SHEFFIELD

The City of Sheffield is built on seven hills and near the confluence of five rivers, it borders on to the UK's first national park (the Peak District). The city is known for its industrial heritage, current hi-tech industries, and as a cultural hub for South Yorkshire. The City hosts two Universities - Sheffield Hallam University (<http://www.shu.ac.uk/>) who will host TAROS 2011 and the University of Sheffield (<http://www.shef.ac.uk/>) who will co-organise the event. The two Universities house many active robotic research groups who are working together to organise the meeting.

DEADLINES

March 11, 2011 Submission deadline
May 11, 2011 Notification of acceptance
May 27, 2011 Camera ready copy
August 31 - September 2, 2011 Conference

INDUSTRIAL PARTICIPATION

The participation of representatives of the industry is welcome both in the main conference and particularly in the academic-industry 1-day symposium. Exhibition space is available. Please contact info@taros.org.uk.

TAROS 2011 SPONSORS

IEEE Robotics and Automation Society - UKRI Chapter (co-sponsor)

Looking forwards to seeing you in Sheffield.

Jacques Penders & Tony Prescott
Conference chairs, TAROS 2011

<http://www.taros.org.uk>
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