Conference Topics

Contributions related, but not limited, to the following topics of interests are welcome:

1. Research and Development
   - modelling, planning and control
   - mechanisms, kinematics and dynamics
   - calibration and identification
   - benchmarking / experimental practices

2. Components & Technologies
   - vision / tactile sensors
   - human-robot interfaces
   - actuators and controllers
   - robot end-effectors / robot infrastructure

3. Robotics in Production / Industrial Robots
   - assembly, handling, painting, machining, processing, logistics etc.
   - robot programming and instructions
   - intelligent manufacturing systems
   - safe human-robot-cooperation / cooperating robots
   - new applications

4. Robotics in Service / Mobile Robotics
   - home & personal robotics
   - rescue / surveillance / security / defence robotics
   - assistance / rehabilitation / medical robotics
   - entertainment robotics
   - exploration / space / aerial / underwater robotics

5. Robotics in New Markets & Applications
   - robots in food, pharmaceutical, bio-chemical applications
   - micro/nano robotics
   - cognitive robotics / learning and adaptive systems / network and ubiquitous robotics
   - biological inspired robotics: humanoids / biomimetics / legged robots

6. Economic, Social, Educational and Environmental Issues
   - standards / safety / profitability / ergonomics / socio-economics / educational robots & tools

Any enquiries relating to the ROBOTIK 2012 should be sent to:
VDE Conference Services
ROBOTIK 2012
Stresemannallee 15
60596 Frankfurt am Main
Germany
Kristin Neumann
Tel. +49 69 6308-275
Fax +49 69 96315213
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www.robotik2012.com

Contact

CALL FOR PAPERS
for the conference of

ROBOTIK 2012
7th German Conference on Robotics

21–22 May 2012
International Congress Center Munich (ICM)

in conjunction with

AUTOMATICA
INNOVATION AND SOLUTIONS
22–25 May 2012
The conference of the 7th German Conference on Robotics (ROBOTIK 2012) takes place in the International Congress Center Munich in Germany from May 21 to 22, 2012. The conference is organized in conjunction with the robotics exhibition AUTOMATICA which will be held May 22 to 25, 2012.

ROBOTIK 2012
The ROBOTIK conference is the largest national conference on robotics in Germany, organized by the German Association of Robotics (DGR). It was established as a series of events in 2000 in Berlin and is held every two years—in 2012 for the 7th time, in cooperation with the Information Technology Society within VDE (ITG). The ROBOTIK conference presents innovative and well-engineered robot applications in combination with new visions and future trends of the German robot community.

AUTOMATICA, 22–25 May 2012
The International Trade Fair for Automation and Mechatronics, taking place from 22 to 25 May 2012 at the New Munich Trade Fair Center, has been the automation fair with the world’s largest range of robotics from its beginning in 2004. AUTOMATICA presents the key technologies of assembly and handling, robotics and machine vision and associated technologies. AUTOMATICA thus represents the entire spectrum of automation and forms complete value-added chains—from components to system, and from application to services. The clear exhibition spectrum of the highly compact key trade fair was developed in close coope-ration with the robotics and automation industry.

Again, the simultaneous organization of these two events will provide a number of benefits to the participants: The conference offers the latest results in the fields of research and development in robotics as well as in new applications. The trade show AUTOMATICA will present the latest products, systems and components for robotics, machine vision, assembly and handling.

Initiators / Stakeholders
- DGR – Deutsche Gesellschaft für Robotik
- Messe München GmbH

Event Management
- ITG – Informationstechnische Gesellschaft im VDE

Event Support & Local Host
- Messe München GmbH

Scientific Management & Support
- DGR – Deutsche Gesellschaft für Robotik
- Fraunhofer IPA
- Technische Universität Kaiserslautern

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Abstract
The official language of the ROBOTIK 2012 is English. An extended abstract in PDF (four pages of A4 sheet) must be submitted through the online system at www.robotik2012.com before the deadline.

All submitted abstracts should include:
- Title of the paper
- Area of the conference topics
- Keywords
- Author’s name(s)
- Organization/Company

All submitted abstracts will be peer reviewed. Accepted papers will be included in IEEE Xplore.

Important dates
- December 09, 2011: Deadline for extended abstracts
- February 13, 2012: Notification of acceptance
- March 25, 2012: Deadline for full paper