

# CALL FOR PAPERS

for the joint conference of



**ISR 2010**

41st International Symposium  
on Robotics



**ROBOTIK 2010**

6th German Conference  
on Robotics

**7-9 June 2010**

Parallel to

**AUTOMATICA**

# The Place to be for Robotics

The joint conference of the 41st International Symposium on Robotics (ISR 2010) and the 6th German Conference on Robotics (ROBOTIK 2010) takes place at the International Congress Centre Munich in Germany. The joint conference is organized in conjunction with the international trade fair AUTOMATICA.

## ISR 2010, 7-9 June 2010

The International Symposium on Robotics (ISR) is the world's oldest international conference in the field of robotics. Still today the ISR is the world's robotic summit for the international robotics community, providing perfect opportunity for scientists, engineers and industry to present their pioneering works in robotics. In addition, ISR 2010 is the best market place to cultivate contacts in robotics worldwide.

## ROBOTIK 2010, 7-9 June 2010

The conference ROBOTIK is the largest national conference on robotics in Germany, organised 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 2010 for the 6th time. ROBOTIK will again present innovative and well-engineered robot applications in combination with new visions and future trends of the German robot community.

## AUTOMATICA, 8-11 June 2010

The International Trade Fair for Automation and Mechatronics, taking place every two years at the New Munich Trade Fair Centre, 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 cooperation with the robotics and automation industry.

# Organizing Committee (ISR/Robotik 2010)

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- Rolf Dieter Schraft, Fraunhofer IPA, Germany

## Chair Robotik 2010

- Karsten Berns, Universität Kaiserslautern, Germany

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- Martin Hägele, Fraunhofer IPA, Germany

## Programme Chair ISR 2010

- Alexander Verl, Fraunhofer IPA, Germany

## Programme Chair ROBOTIK 2010

- Karsten Berns, Univ. Kaiserslautern, Germany

Schedule of the ISR/ROBOTIK 2010 and related events				
Mon. 07.06.	Tue. 08.06.	Wed. 09.06.	Thu. 10.06.	Fri. 11.06.
ISR/Robotik 2010			Company Tour	
AUTOMATICA				

# International Programme Committee (ISR 2010)

## Chair

- Alexander Verl, Fraunhofer IPA, Germany

## Co-Chairs

- Kazuhiro Kosuge, Tohoku University, Japan
- Heinz Wörn, Universität Karlsruhe, Germany
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- Tamio Arai, University of Tokyo, Japan
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- Edward Colgate, Northwestern University, USA
- Andrew Goldenberg, University of Toronto, Canada
- Aarne Halme, Helsinki, University of Technology, Finland
- Mircea Ivanescu, Robotics Society of Romania, Romania
- Oussama Khatib, Stanford University, USA
- Rezia Molfino, University of Genova, Italy
- Klas Nilsson, Lund University, Sweden
- Yong-Oh Park, Chonnam National University, Korea
- Vladimir Pavlovsky, Keldysh Institute of Applied Mathematics, Russia
- Claus Risager, Danish Technological Institute, Denmark
- Bruno Siciliano, Università di Napoli Federico II, Italy
- Roland Siegwart, ETH Zuerich, Switzerland
- Tzyh-Jong Tarn, Washington University, USA
- Reijo Tuokko, Tampere University of Technology, Finland
- Hendrik van Brussels, Katholieke Universiteit Leuven, Belgium
- Wang Yuechao, Shenyang Institute of Automation (SIA), China
- Alex Zelinsky, CSIRO, Australia

# National Programme Committee (Robotik 2010)

## Chair

- Karsten Berns, Universität Kaiserslautern

## Vice-Chair

- Alexander Verl, Fraunhofer IPA

## Programme Members

- Tamim Asfour, Universität Karlsruhe
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- Thomas Bock, Technische Universität München
- Wolfram Burgard, Universität Freiburg
- Ruediger Dillmann, Universität Karlsruhe
- Jens Hanke, Robowatch Technologies GmbH, Berlin
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- Helge-Björn Kuntze, Fraunhofer IITB, Karlsruhe
- Gisbert Lawitzky, Siemens AG, München
- Paul Levi, Universität Stuttgart
- Tim Lüth, Technische Universität München
- Tobias Ortmeier, Universität Hannover
- Erwin Prassler, Hochschule Bonn-Rhein-Sieg
- Helge Ritter, Universität Bielefeld
- Jozef Suchy, Technische Universität Chemnitz
- Heinz Ulbrich, Technische Universität München
- Friedrich Wahl, Technische Universität Braunschweig
- Dirk Wollherr, Technische Universität München
- Jianwei Zhang, Universität Hamburg

Again, the simultaneous organization of these three events will provide a number of benefits to the participants: The joint 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.

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

## 1. Research and Development

- modelling, planning and control
- mechanisms and kinematics
- calibration and identification
- benchmarking / experimental practices

## 2. Components & Technologies

- vision / tactile / auditory sensors
- visual servoing and tracking
- actuators and controllers
- robot end-effectors / robot infrastructure

## 3. Robotics in Production / Industrial Robots

- assembly, handling, painting, machining, processing, logistics etc.
- robot programming and languages
- intelligent manufacturing systems
- safe human-robot-cooperation / cooperating robots
- new applications

## 4. Robotics in Service / Mobile Robotics

- home & office robotics
- SR for professional services
- rescue / surveillance / security / defence robotics
- assistance / rehabilitation / medical robotics
- entertainment robotics
- exploration / space / aerial / underwater robotics

## 5. Robotics in New Markets & Applications

- food / pharmaceutical / biology robotics
- 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

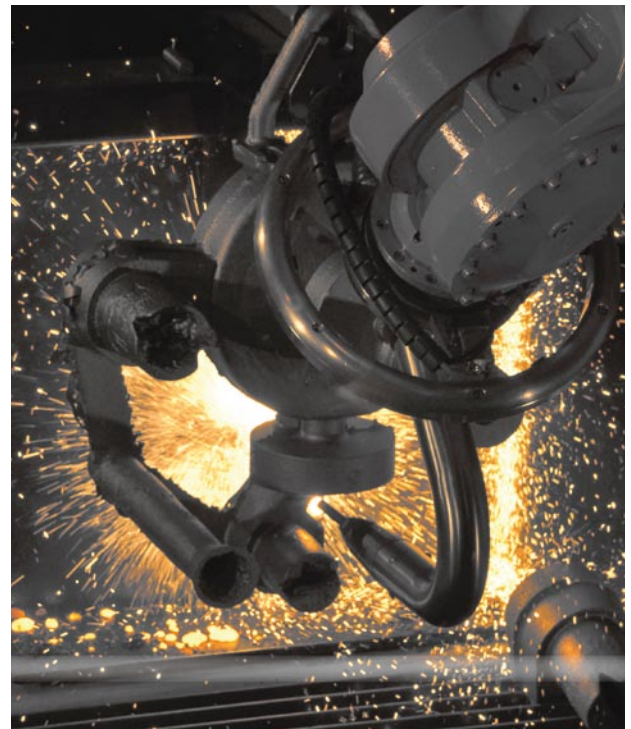
The official language of the ISR/ROBOTIK 2010 is English. An extended abstract in PDF format (two pages of DIN A4 sheet) must be submitted through the online system at [www.isr-robotik-2010.com](http://www.isr-robotik-2010.com) before 13 November 2009.

## All submitted abstracts should include:

- Title of the paper
- Area of the symposium topics (choose among the symposium topics)
- Keywords
- Author's name(s)
- Speaker's name
- Organization/Company
- Phone and e-mail

## Important dates

- 13 November 2009: Deadline for abstracts
- 15 January 2010: Notification of acceptance
- 13 March 2010: Deadline for full paper



# Contact

Any inquiries relating to  
ISR/ROBOTIK 2010  
should be sent to:

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# VDE ITG

