



CALL FOR PAPERS

ICAR 2003 Honorary Chairman

Prof. Yoji Umetani, Toyota Tech. Institute, Japan

ICAR Permanent Steering Committee

A. Casals, *Spain*, K. Tanie, *Japan*,
P. Dario, *Italy*, B. Espiau, *France*,
G. Giralt, *France*, J. O. Gray, *UK*,
G. Hirzinger, *Germany*, O. Khatib, *USA*,
A. K. Bejczy, *USA*, R. Shraft, *Germany*,
Y. Umetani, *Japan*, I. Rudas, *Hungary*,
J. Trevelyan, *Australia*, G. Sandini, *Italy*,
J. Angeles, *Canada*.

ORGANIZING COMMITTEE

General Co-Chairs

Aníbal T. de Almeida, Portugal
Urbano Nunes, Portugal

Program Co-Chairs

Antal K. Bejczy, USA
Kazuhiro Kosuge, Japan
J. A. Tenreiro Machado, Portugal

Tutorial/Workshop Chair

Jorge Dias, Portugal

Special Sessions Co-Chairs

Eugenio Guglielmelli, Italy
Paul Schenker, USA

Industry-Oriented Chair

Erwin Prassler, Germany

Publicity Co-Chairs

Makoto Mizukawa, Japan
Rui Cortesão, Portugal

Exhibition and Video Co-Chairs

Darwin Caldwell, UK
Pedro Lima, Portugal

Publications Chair

Paulo Peixoto, Portugal

Information Technologies Chair

Rui Araújo, Portugal

PLENARY LECTURES

Paolo Dario (Perspectives of Biomedical Robotics)
Kazuo Tanie (Humanoid Robots and its applications)
Antonio Pascoal (Marine Robots: from theory to practice)
Michel Parent (Cybercars - Intelligent Vehicles for the cities)



ICAR 2003

The 11th International Conference on Advanced Robotics 2003



Sponsored by:
IEEE Portuguese Section
Institute of Systems and Robotics (ISR Coimbra)
University of Coimbra

Technical Co-Sponsors:
IEEE Robotics and Automation Society (RAS)
IEEE Industrial Electronics Society (IES)
Robotics Society of Japan (RSJ)
Japan Robot Association (JARA)

June 30 - July 3, 2003

University of Coimbra, Coimbra, Portugal

ICAR 2003 continues to follow the scope of this conference series of promoting information exchange and international cooperation in the field of advanced robotics.

Topics include, but are not limited to:

Human-centered robotics; Distributed and modular robotics; Manipulator robotics; Mobile robotics; Microrobots; Rehabilitation and biomedical robotics; Redundant robots; Flexible robots; Multirobot systems; Humanoid robots; Sensing and algorithms for navigation, guidance, control and scene perception; Intelligent transportation systems; Intelligent vehicles; Biological inspired robotics; Robot learning; Space, aerial and underwater robotics; Robot control; Computational hardware and software systems in robotics; Task planning and monitoring, Simulation and virtual reality systems in robotics; Sensor Fusion; Human-robot interfaces, interaction and communication; Humanitarian Demining robotics; Nonholonomic robots; MEMS and Nano Technology.

Important Dates

<i>December 1, 2002</i>	Proposals for workshop/tutorials
<i>December 15, 2002</i>	Submission of papers and videos, invited sessions, and industry-oriented sessions
<i>December 15, 2002</i>	Notification of workshop/tutorial acceptance
<i>March 15, 2003</i>	Notification of paper acceptance
<i>April 30, 2003</i>	Submission of final camera-ready papers and videos

Paper Submission

Prospective authors are invited to submit full papers in PDF or Postscript formats through the conference website. Accepted papers must be presented at the conference by one of the authors to appear in the conference CD and proceedings. Detailed instructions can be found at the conference homepage.

Tutorials and Workshops

Proposals for tutorials and workshops that address topics related to the conference themes are welcome. We encourage state of the art programs with high level of interest, impact, creativity and innovation.

Video

Digital video submission is welcome associated with a paper submission. The videos should not exceed 3 minutes and will be linked to the papers and distributed to all participants on the conference CD.

Industry-Focused Sessions

Industry-oriented papers are also solicited. By bringing together researchers from industry and academia, the Technical Program Committee hopes to foster collaboration and promote transfer of ideas among these communities.

More information can be found through:

ICAR03 Secretariat
ISR, DEEC,
University of Coimbra, Polo II
3030-290 Coimbra, Portugal

Email: icar03@isr.uc.pt
Web: <http://www.isr.uc.pt/icar03/>
Fax: +351-239-406-672



Venue

The ICAR 2003 Conference will be held in the historic part of the University of Coimbra in new conference facilities harmoniously integrated in the seven centuries-old campus. A social program will include sightseeing activities, a welcome reception and a banquet in the former summer royal palace of São Marcos.

ICAR 2003 International Program Committee

Program Co-Chairs

A. K. Bejczy, JPL/CALTECH, USA
 Kazuhiro Kosuge, Tokohu University, Japan
 J. Tenreiro Machado, Inst. of Engineering of Porto, Portugal

Yvan Baudoin, Royal Military Academy Brussels, Belgium
 Paolo Dario, Scuola Superiore Sant'Anna, Italy
 Blake Hannaford, Washington University, USA
 Shigeki Sugano, Waseda University, Japan
 Seungho Kim, KAERI, Korea

Members

Fumio Harashima, Tokyo Denki University, Japan
 Oussama Khatib, Stanford University, USA
 Raja Chatila, LAAS/CNRS, France
 Sukhan Lee, SAIT, Korea
 Isabel Ribeiro, IST, Technical Univ. of Lisbon, Portugal
 Bruno Siciliano, University of Naples, Italy
 Aarne Halme, Helsinki University of Technology, Finland
 Hideki Hashimoto, University of Tokyo, Japan
 Vijay Kumar, University of Pennsylvania, USA
 James Trevelyan, Univ. of Western Aust., Australia
 A. J. Koivo, Purdue University, USA
 Ruediger Dillmann, University of Karlsruhe, Germany
 Miguel A. Salichs, Univ. Carlos III, Madrid, Spain
 Hajime Asama, RIKEN, Japan
 A. Maciejewski, Colorado State University, USA
 Antonio Bicchi, University of Pisa, Italy
 Michel Parent, INRIA, France
 George A. Bekey, University S. California, USA
 Shin'ichi Yuta, University of Tsukuba, Japan
 J. Sá da Costa, IST, Technical Univ. of Lisbon, Portugal
 Paolo Fiorini, University of Verona, Italy
 Yuan F. Zheng, Ohio State University, USA
 Toshio Fukuda, Nagoya University, Japan
 J. Alberto Fonseca, University of Aveiro, Portugal
 Hari D. Nayar, JPL/CIT, USA
 Kazuo Tanie, National Institute AIST, Japan
 Spyros Tzafestas, NTUA, Greece
 João Mauricio, Unicamp, Brasil
 Makoto Kaneko, Hiroshima University, Japan
 Ole Ravn, Technical University of Denmark, Denmark
 Shigeo Hirose, Tokyo Institute of Technology, Japan
 F. Lobo Pereira, University of Porto, Portugal

J. K. Tar, Budapest Polytechnic, Hungary
 Helder Araújo, University of Coimbra, Portugal,
 Ken Goldberg, University of California, Berkeley, USA
 Sadao Kawamura, Ritsumeikan University, Japan
 Anibal Ollero, University of Sevilla, Spain
 Claudio Melchiorri, DEIS, Univ. of Bologna, Italy
 Andrew A. Goldenberg, University of Toronto, Canada
 M. Tomizuka, University of California, Berkeley, USA
 Alicia Casals, Univ. Politech. de Catalunya, Spain
 Brian Davies, Imperial College, UK
 Carlos Couto, University of Minho, Portugal
 Tsutomu Hasegawa, Kyushu University, Japan
 T. C. Steve Hsia, University of California at Davies, USA
 Giulio Sandini, University of Genova, Italy
 Herman Bruyninckx, KU Leuven, Belgium
 Gerd Hirzinger, DLR, Germany
 Takeo Oomichi, Meijo University, Japan
 Manuela Veloso, Carnegie Mellon University, USA
 Imre Rudas, Budapest Polytechnic, Hungary
 Roland Siegwart, EPFL, Switzerland
 Wan Kyun Chung, POSTECH, Korea
 João Sentieiro, IST, Technical Univ. of Lisbon, Portugal
 Tatsuo Arai, Osaka University, Japan
 Paul Drews, E. C. Mechatronic, Germany
 Ren C. Luo, N. Chung Cheng University, Taiwan
 K. Salisbury, Stanford University, USA
 K. Kozłowski, University of Poznan, Poland
 Radu Horaud, INRIA, France
 Yoji Yamada, Toyota Technical Inst. of Technology, Japan
 Wayne Book, Georgia Institute of Technology, USA
 Henrik I. Christensen, Royal Inst. of Technology, Sweden
 Keigo Watanabe, Saga University, Japan
 Carlos Ramos, Inst. of Engineering of Porto, Portugal
 C. S. George Lee, Purdue University, USA
 Alain Oustaloup, University of Bordeaux, France