

**Organisers**

-School of Electrical and Electronic Eng.,
Nanyang Technological University,
-Institution of Engineers, Singapore

Technical Sponsors

-IEEE Control Systems Society
-IEEE Robotics and Automation Society
-IEEE Systems, Man and Cybernetics Society
-Singapore Institute of Manufacturing Technology

International Advisory Committee

Arimoto, Suguru; Japan
Basar, Tamer; USA
Blake, Andrew; UK
Cao, Xiren; HK, China
Cassandras, Christos G; USA
Chai, Tianyou; China
Chung, Myung Jin; Korea
De Luca, Alessandro; Italy
De Silva, Clarence W; Canada
Durrant-Whyte, Hugh; Australia
Er, Meng Hwa; Singapore
Foo, Say Wei; Singapore
Goodwin, Graham C; Australia
Guo, Lei; China
Ikeda, Masao; Japan
Isidori, Alberto; Italy
Jain, Anil K; USA
Kam, Chan Hin; Singapore
Kaynak, M. Okyay; Turkey
Kwon, Wook Hyun; Korea
Lee, Kok Meng; USA
Lee, Seong-Whan; Korea
Luh, Peter; USA
Laugier, Christian; France
Lewis, Frank L; USA
Lim, Kiang Wee; Singapore
Newcomb, Robert W; USA
Ngan King Ng; HK, China
Pal, Nikhil R; India
Parent, Michel; France
Rogers, Eric; UK
Schapire, Robert; USA
Shaked, Uri; Israel
Siciliano, Bruno; Italy
Slotine, Jean-Jacques E; USA
Soh, Yeng Chai; Singapore
Tarn, Tzyh-Jong; USA
Vidyasagar, M; India
Zurada, Jacek. M.; USA

Organising Committee

Xie, Lihua (General Chair)
Wang, Dan Wei (Advisor)
Cheah, Chien Chern (Program Chair)
Chua, Chin Seng (Program Co-chair)
Huang, Jie (Program Co-chair)
Sung, Eric (Invited Session Chair)
Hirai, Shinichi (Invited Session Co-chair)
Feng, Gary (Invited Session Co-Chair)
Lee, Peng Hin (Finance Chair)
Wijesoma, Sardha W. (Publicity)
Zhang, Cishen (Publication)
Suganthan, P. N. (Keynotes & Tutorials)
Low, Kay Soon (Local Arrangement)
Zhang, Jing Bing; Ling, Keck Voon (Exhibition)
Wong, Patricia (Secretary)

CALL FOR PAPERS

The 9th International Conference on Control, Automation, Robotics and Vision, ICARCV 2006, will be held in Singapore from 5 – 8 December 2006. The conference is organised by the School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore and Institution of Engineers, Singapore. ICARCV focuses on both theory and applications mainly covering the topics of control, automation, robotics and vision. In addition to the technical sessions, there will be invited sessions, tutorials and keynote addresses.

The Proceedings of ICARCV are indexed by ISI Proceedings, EI Compendex and included in the IEEE Xplore.

The topics of interest include, but are not limited to:

Control: Adaptive control; Robust control; Process control; Complex systems; Identification and estimation; Nonlinear systems; Intelligent systems; Discrete event systems; Hybrid systems; Networked control systems; Delay systems; Neural networks; Fuzzy systems; Control of biological systems; Precision motion control; Control applications; Control engineering education.

Automation: Man-machine interactions; Process automation; Intelligent automation; Factory modeling and simulation; Home, laboratory and service automation; Network-based systems; Planning, scheduling and coordination; Nano-scale automation and assembly; Instrumentation systems; Biomedical instrumentation and applications.

Robotics: Modeling and identification; Robot control; Mobile robotics; Mobile sensor networks; Perception systems; Micro robots and micro-manipulation; Visual servoing; Search, rescue and field robotics; Robot sensing and data fusion; Localization, navigation and mapping; Dexterous manipulation; Medical robots and bio-robotics; Human centered systems; Space and underwater robots; Tele-robotics; Mechanism design and applications.

Vision: Image/video analysis; Feature extraction, grouping and segmentation; Scene analysis; Pattern recognition; Learning in vision; Human-computer interaction; Tracking and surveillance; Biometrics; Biomedical Image analysis; Activity/behaviour recognition; Applications.

Best Paper Award: Selection of the best paper will be made at the Conference based on both the technical content and presentation. The winner will be chosen by the Technical Program Committee in consultation with the International Advisory Committee.

Paper Submission:

Papers must be written in English and should describe original work in detail. Please download the template from the conference website and submit the full papers online <http://www.icarcv.org> by **1 April, 2006**. Upon acceptance, authors will be required to register and present their papers.

Invited Sessions:

The Technical Program Committee is soliciting proposals for invited sessions focusing on topics of ICARCV 2006. Prospective organisers should submit proposals to the Invited Session Chairman eericsung@ntu.edu.sg by **1 March, 2006**. Invited sessions are to provide a forum for focused discussions on new topics, or innovative applications of established approaches.

KEYNOTE SPEECHES**Rescue Robotics: A Grand Challenge**

Professor Robin R. Murphy, University of South Florida, USA

Identification of Nonlinear Dynamical Systems

Professor Lennart Ljung, Linköpings Universitet, Sweden

Probabilistic Inference in Low Level Vision

Professor Andrew Blake, University of Oxford and Microsoft Research, UK

Important Dates:

Deadline for Full Paper submission	1 April 2006
Notification of Acceptance	1 July 2006
Deadline for Camera Ready Manuscript Submission	1 September 2006
Deadline for Authors' Registration	1 September 2006

Contact

Ms Merlin TOH, ICARCV 2006 Secretariat, Nanyang Technological University
Conference Management Centre/CCE, Nanyang Executive Centre #02-08, 60 Nanyang View, Singapore 639673
Tel: +(65) 6790-4723 Fax: +(65) 6793-0997 Email: secretariat@icarcv.org