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PRELIMINARY CALL FOR PAPERS

The Eighth International Conference on Control, Automation, Robotics and Vision, ICARCV 2004, will be held in Kunming in December 2004. The conference will be co-organised by the School of Electrical and Electronic Engineering, Nanyang Technological University and Nanjing University of Science and Technology. The conference will provide a forum for Control and Automation professionals, manufacturing engineers and academic researchers to exchange up-to-date technical knowledge and experiences. The conference will focus on both theory and applications. In addition to the technical sessions, there will be plenary, invited and tutorial sessions. The topics of interest are:

Control: Modeling and simulation of complex systems; Identification and estimation; Adaptive control; Robust control; Nonlinear control; Intelligent control; Hybrid systems; Computer networks control; Networked control systems; Control applications; Control engineering education

Automation: Instrumentation systems; Flexible manufacturing systems; Process Automation; Man-Machine Interactions; Computer Integrated Manufacturing; Factory modeling and simulation; Intelligent Automation

Robotics: Kinematics, dynamics and control; Mobile robot and navigation; Intelligent sensors and actuators; Dexterous manipulation and task planning; Medical robots; Humanoid robots; Underwater robots; Telerobotics and man-machine systems; Mechatronics; Mechanism design and applications

Computer Vision: Active and robot vision; Biomedical image analysis; Feature extraction, grouping and segmentation; Illumination and reflectance modeling; Image and video analysis/retrieval/indexing; Pattern recognition; Physics-based vision; Stereo/multiview geometry/SFM; Tracking and surveillance; Applications

Emerging Technologies: Machine learning; Soft computing; Modeling and simulations of biological systems; Biomedical instrumentation and applications; Micro-electromechanical systems

Submission Procedure:

Papers must be written in English and should describe original work in detail. Please submit full papers to the website address <http://www.ntu.edu.sg/eee/icarcv> by **1 March, 2004**. All submitted papers should be in the form of .pdf or .ps file and are to be limited to a maximum length of 6 pages (A4 size, single space, Times Roman of font size 10, two columns format), including figures, tables and references. Upon acceptance, authors will be required to register and present their papers. Papers will be published in the conference proceedings only if at least one of the authors is officially registered.

Invited Sessions: The Technical Programme Committee is soliciting proposals for invited sessions focusing on topics of ICARCV 2004. Prospective organisers should submit proposals to the Technical Programme Chairman by **1 March 2004**.

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.

Principal Members of Technical Program Committee:

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Important Dates:	
Deadline for Full Paper Submissions	: 1 March, 2004
Notification of Acceptance	: 15 June, 2004
Submission of Camera Ready Manuscripts	: 1 September, 2004