

PRELIMINARY CALL FOR PAPERS

Organisers

-School of Electrical & Electronic Engineering,
Nanyang Technological University
-The Chinese University of Hong Kong
-IEEE Guangzhou Control Chapter

The 12th International Conference on Control, Automation, Robotics and Vision, ICARCV 2012, will be held in Shenzhen, China in December 2012. The conference is co-organised by the Nanyang Technological University of Singapore, Chinese University of Hong Kong and IEEE Guangzhou Control Chapter.

Technical Sponsors

(To be confirmed)

-IEEE Control Systems Society
-IEEE Robotics and Automation Society
-IEEE Systems, Man and Cybernetics Society

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, panel sessions and keynote addresses.

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

Organising Committee

| | |
|---------------------------|---|
| Advisor: | Danwei Wang (Singapore) |
| General Chair: | Lihua Xie (Singapore) |
| General Co-Chair: | Jie Huang (Hong Kong, China) |
| Program Chair: | Chien Chern Cheah (Singapore) |
| Program Co-Chairs: | Dong Sun (Hong Kong, China) Yiguang Hong (China) Stan Li (China) |
| Area Chairs: | Ling Shi (Hong Kong, China) Rong Su (Singapore) Kar-Ann Toh (Korea) |
| Invited Session Chairs: | Guangbin Huang (Singapore) Zhong-Ping Jiang (USA) Huanshui Zhang (China) |
| Keynote and Panel Chair: | Changyun Wen (Singapore) |
| Award Committee Chairs: | Danwei Wang (Singapore) Gary Feng (Hong Kong, China) |
| Finance Chair: | Kezhi Mao (Singapore) |
| Local Arrangement Chairs: | Zhendong Sun (China) Weizhou Su (China) |
| Publicity Chairs: | Gianluca Antonelli (Italy) Han-Lim Choi (Korea) Warren Dixon (USA) Han Wang (Singapore) Cishen Zhang (Australia) Yanlong Zhao (China) Yun Zou (China) |
| Publication Chair: | Jianliang Wang (Singapore) |
| Secretary: | Patricia Wong (Singapore) |

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

Control: Adaptive control; Robust control; Process control; Complex systems; Co-operative control; Identification and estimation; Nonlinear systems; Intelligent systems; Discrete event systems; Hybrid systems; Networked control systems; Sensor networks; 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.

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, 2012. Upon acceptance, authors will be required to register and present their papers.

KEYNOTE ADDRESSES AND INVITED SESSIONS

The Organizing Committee is soliciting nominations and suggestions of keynote speakers and invited sessions for ICARCV 2012. Please forward your nominations to any member of the Organizing Committee.

Important Dates:

| | |
|---|------------------|
| Deadline for Full Paper submission | 1 April 2012 |
| Notification of Acceptance | 1 July 2012 |
| Deadline for Camera Ready Manuscript Submission | 1 September 2012 |
| Deadline for Authors' Registration | 1 September 2012 |

For further information, please refer to

Website - <http://www.icarcv.org>

Email - secretariat@icarcv.org

