The 14ᵗʰ International Conference on Control, Automation, Robotics and Vision

ICARCV 2016

http://www.icarcv.org/2016/

November 13 – 15, 2016, Phuket, Thailand

CALL FOR PAPERS

The 14**th** International Conference on Control, Automation, Robotics and Vision, ICARCV 2016, will be held in Phuket, Thailand during November 13 – 15, 2016. The conference is organised by Nanyang Technological University, Singapore, and technically co-sponsored by (to be confirmed) IEEE Control Systems Society.

ICARCV has a history of more than 26 years. It focuses on both theory and applications mainly covering the topics of control, automation, robotics and computer vision. In addition to the technical sessions, there will be invited sessions, panel sessions and keynote addresses.

Proceedings of past ICARCVs have been 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; Co-operative control; Identification and estimation; Nonlinear systems; Intelligent systems; Discrete event systems; Hybrid systems; Networked control systems; Sensor networks; Multi-agent systems; Delay systems; Neural networks; Fuzzy systems; Control of biological systems; Precision motion control; Control applications; Control engineering education; Marine systems; Data analytics.

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; Building energy efficiency.

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; Image-based modeling; Stereo and Structure from motion; Feature extraction, grouping and segmentation; Scene analysis; Object recognition; Learning and Statistical methods; Human-computer interaction; Tracking and surveillance; Biometrics; Vision for robots; Activity/behavior recognition; Medical Image Analysis; Face and Gesture.

Emerging Technologies: Internet of things; Cyber-physical systems; Smart buildings, Smart grid; Energy management systems; Big data; Electric vehicles and intelligent transportation.

Paper Submission:
Papers must be written in English and should describe original work in details. Please download the template from the conference website and submit the full papers online at **http://www.icarcv.org/2016** by 3**1 May, 2016**. Proposals for invited sessions will be submitted online at the same web address. Upon acceptance, authors are required to register and present their papers at the conference. Papers which make outstanding contributions to the relevant topics will be considered for best paper awards.

Invited Sessions: Prospective organizers are invited to directly submit proposals to the Invited Session Chair, Prof. Guoqiang Hu (GQHu@ntu.edu.sg), or Prof Han Wang (HW@ntu.edu.sg).

Keynote Speeches
Optimized Assistive Human-robot Interaction Using Reinforcement Learning
- Prof. Frank LEWIS, University of Texas at Arlington, USA

Aerial Robotic Manipulation - Prof. Bruno SICILIANO, University of Naples Federico II, Italy.

Towards Wholistic Scene Understanding - Prof. Philip TORR, University of Oxford, United Kingdom

There will also be **Plenary Panel Sessions** for interaction and discussions with prominent researchers in the areas of the conference as well.

Important Dates:

Deadline for Invited Session Proposal Submission	20 May 2016
Extended Deadline for Full Paper Submission	31 May 2016
Notification of Acceptance	31 July 2016
Deadline for Camera Ready Manuscript Submission	1 September 2016
Deadline for Authors' Registration	1 September 2016

For further information, please refer to
Website - **http://www.icarcv.org/2016/** Email - **secretariat@icarcv.org**

Organizer
-School of Electrical & Electronic Engineering, Nanyang Technological University

Technical Co-sponsor
-IEEE Control Systems Society

Supported by
-Thailand Convention & Exhibition Bureau

Held in
-Phuket, Thailand

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