

## CALL FOR PAPERS

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The 16<sup>th</sup> International Conference on Control, Automation, Robotics and Vision, ICARCV 2020, will be held in Shenzhen of China, December 13 -15, 2020. The conference is organised by School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, co-organized by Zhejiang University, China, locally co-organized by Shenzhen Polytechnic, China and technically co-sponsored by IEEE Control Systems Society.

**Attention:** Depending on the latest situation of coronavirus in China, the conference venue may be changed to Singapore to ensure absolute safety of all delegates. A venue confirmation shall be sent to all authors by August 31, 2020, together with notifications of acceptance.

ICARCV has a history of more than 30 years and **ICARCV 2020** will involve a great event of celebrating its **30th ANNIVERSARY**. The conference focuses on both theory and applications in the areas of control, automation, robotics and computer vision, with coverage of topics in emerging technologies. Besides technical sessions, there will be 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.

### Paper and Invited Session Proposal Submission:

Papers must be written in English and should describe original work in details. Please download the template from the conference website <http://www.icarcv.sg> and submit the full papers online through PaperCept (<https://controls.papercept.net/conferences/scripts/start.pl>). Proposals for invited sessions can 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. In accordance with IEEE requirements, only PDF files will be accepted

Invited **Keynote Addresses** on the State-of-the-Art in various tracks of the conference will be delivered. There will also be **Plenary Panel Sessions** for interaction and discussions with prominent researchers in the areas of the conference.

For more details, please visit ICARCV Website: <http://www.icarcv.sg>

### Important Dates:

|   |                |
|---|----------------|
| Deadline for Full Paper & Invited Session Proposal submission | 1 June 2020    |
| Notification of Acceptance                                    | 31 August 2020 |
| Deadline for Camera Ready Manuscript Submission               | 1 October 2020 |
| Deadline for Authors' Registration                            | 1 October 2020 |

