IEEE

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

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Society of Control, Automation, Robotics and Vision, Singapore

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CALL FOR PAPERS

The 19th International Conference on Control, Automation, Robotics and Vision (ICARCV 2026), will be held in Halong Bay, Vietnam, Nov 15-17, 2026. The conference is co-organized by Nanyang Technological University, Singapore, and Society of Control, Automation, Robotics and Vision, and technically co-sponsored by IEEE Control Systems Society. The conference will be held fully in physical mode this time.

ICARCV has a history of more than 35 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, plenary speeches, keynote speeches, and plenary panel sessions.

Proceedings of past ICARCVs have been indexed by ISI Proceedings, EI Compendex and included in the IEEE Xplore. To encourage research sharing, we will also allow authors to submit journal papers, accepted within 12 months before Nov. 15, 2026, from top tier journals to be presented in the conference. However, the submission will not be indexed in 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; AI in control.

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; fault diagnosis and detection.

Robotics: Modeling and identification; multi-robot systems; 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 and Invited Session Proposal Submission:
Papers must be written in English and should describe original work in detail. Please download the template from the conference website https://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.

For more details, please visit ICARCV 2026 Website: https://www.carvs-icarcv.org/
For enquiries, please contact: info@carvs-icarcv.org

Important Dates:

Deadline for Full Paper & Invited Session Proposal submission	15 May 2026
Notification of Acceptance	1 July 2026
Deadline for Camera Ready Manuscript Submission	15 Aug 2026
Deadline for Authors' Registration	25 Aug 2026