IEEE Robotics & Automation Society

IEEE

IEEE Robotics and Automation Society (RAS)

Making the vanguard of robotics research more accessible to professionals worldwide.

We're part of IEEE — the world's largest technical professional association.

400,000+
Technical Members Globally

5 Million+
Technical Articles per Year

2,000+
Technical Conferences Annually

39+
Professional Technical Societies

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Since 1987, IEEE RAS has supported the latest in robotics research.

5 Million+ **members from 120+ different countries all over the world**

80+ **conferences and workshops per year**

- International Conference on Robotics and Automation (ICRA)
- International Conference on Automation Science and Engineering (CASE)
- International Conference on Intelligent Robots and Systems (IROS)

44 **technical committees**

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From Aerial Robotics to Wearables, the RAS Industry Activities Board (IAB) makes it easier for professionals to find what they need.

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With 44 Technical Committees under the RAS umbrella, it can be challenging to know where to start.

- Aerial Robotics and Unmanned Aerial Vehicles
- Agricultural Robotics and Automation
- Algorithms for Planning and Control of Robot Motion
- Automation in Health Care Management
- Automation in Logistics
- Autonomous Ground Vehicles and Intelligent Transportation Systems
- Bio Robotics
- Cognitive Robotics
- Collaborative Automation for Flexible Manufacturing
- Computer & Robot Vision
- Cyborg & Bionic Systems
- Digital Manufacturing and Human-Centered Automation
- Energy, Environment, and Safety Issues in Robotics and Automation
- Haptics
- Human Movement Understanding
- Human-Robot Interaction & Coordination
- Humanoid Robotics
- Marine Robotics
- Mechanisms and Design
- Micro/Nano Robotics and Automation
- Mobile Manipulation
- Model-Based Optimization for Robotics
- Multi-Robot Systems
- Neuro-Robotics Systems
- Performance Evaluation & Benchmarking of Robotic and Automation Systems
- Rehabilitation and Assistive Robotics
- RoboCup
- Robot Ethics
- Robot Learning
- Robotic Hands, Grasping and Manipulation
- Robotics and Automation in Nuclear Facilities
- Robotics Research for Practicality
- Safety, Security and Rescue Robotics
- Semiconductor Manufacturing Automation
- Smart Buildings
- Soft Robotics
- Software Engineering for Robotics and Automation
- Space Robotics
- Surgical Robotics
- Sustainable Production Automation
- Telerobotics
- Verification of Autonomous Systems
- Wearable Robotics
- Whole-Body Control

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Fortunately, the IAB has developed 8 industry clusters
to make it easier to engage

- Advanced Manufacturing
- AgriTech
- Construction
- Extreme Environments
- Health & Medical Robots
- Mobility & Logistics
- Sense, Think, Act
- TeleOperation & Interaction

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Choose your own adventure

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Advanced Manufacturing

- Collaborative Automation for Flexible Manufacturing
- Digital Manufacturing and Human-Centered Automation
- Mechanisms and Design
- Robotics Research for Practicality
- Semiconductor Manufacturing Automation
- Software Engineering for Robotics and Automation
- Sustainable Production Automation

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AgriTech

- Collaborative Automation for Flexible Manufacturing
- Digital Manufacturing and Human-Centered Automation
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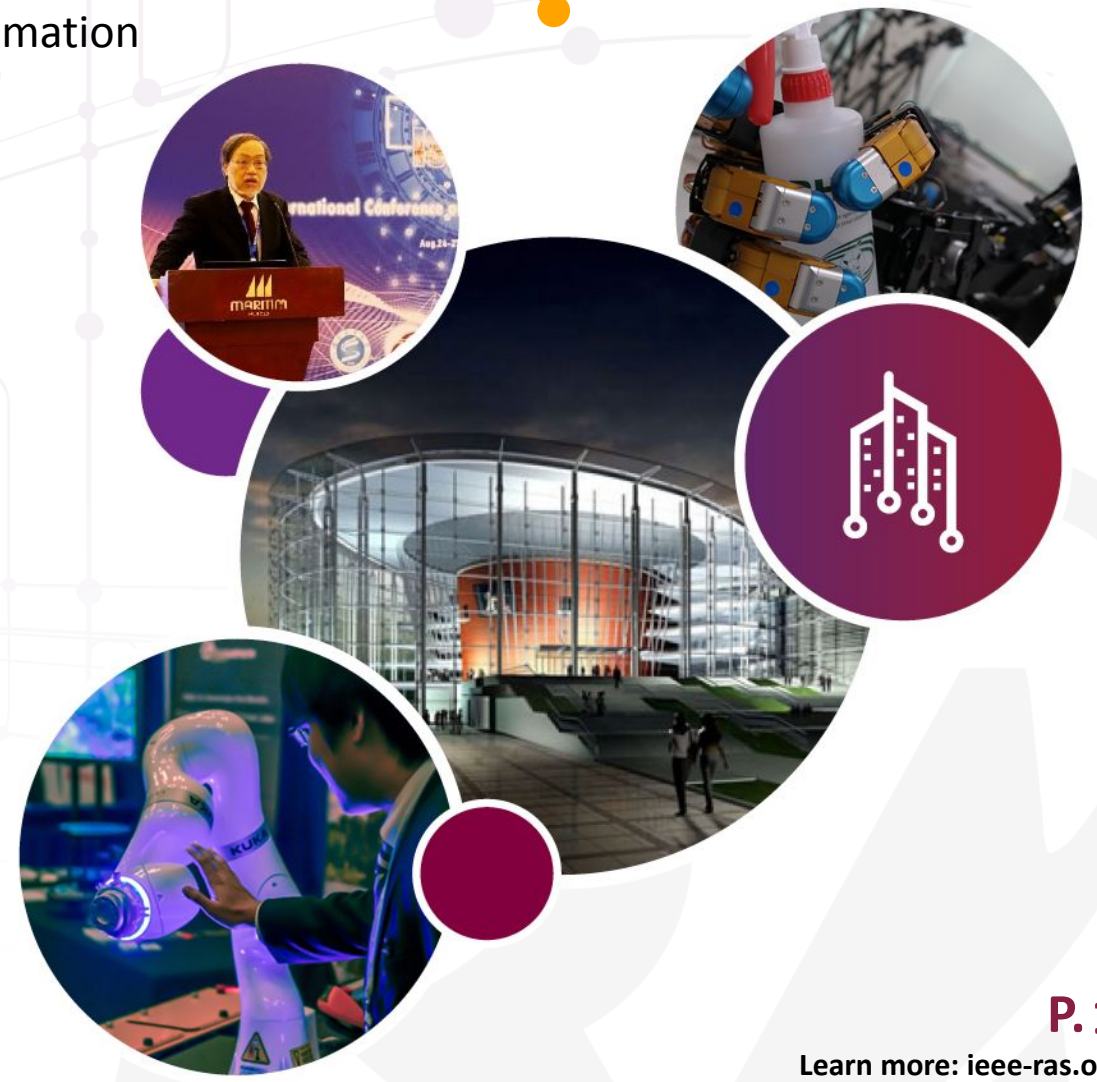
- Semiconductor Manufacturing Automation
- Software Engineering for Robotics and Automation
- Sustainable Production Automation

Construction

- Energy, Environment, and Safety Issues in Robotics and Automation
- Robotics Research for Practicality
- Smart Buildings
- Sustainable Production Automation



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Extreme Environments

- Energy, Environment, and Safety Issues in Robotics and Automation
- Marine Robotics
- Robotics and Automation in Nuclear Facilities
- Safety, Security and Rescue Robotics
- Space Robotics

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Health & Medical Robots

- Automation in Health Care Management
- Bio Robotics
- Micro/Nano Robotics and Automation
- Neuro-Robotics Systems
- Rehabilitation and Assistive Robotics
- Soft Robotics
- Surgical Robotics
- Wearable Robotics

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Mobility & Logistics

- Automation in Logistics
- Autonomous Ground Vehicles and Intelligent Transportation Systems
- Mobile Manipulation
- Multi-Robot Systems
- Robotic Hands, Grasping and Manipulation

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Sense, Think, Act

- Algorithms for Planning and Control of Robot Motion
- Cognitive Robotics
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TeleOperations & Interaction

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