



6<sup>th</sup> – 8<sup>th</sup> August 2022  
Malacca, Malaysia

# IEEE ROMA 2022

## 2022 IEEE 5<sup>th</sup> International Symposium on Robotics and Manufacturing Automation

*Theme: Robotics and Automation Landscape in Pandemic and way forward for Post Pandemic.*

### CALL FOR PAPERS

### MAIN ORGANIZERS

2022 IEEE 5th International Symposium on Robotics and Manufacturing Automation (IEEE ROMA 2022) will be held in Malacca, Malaysia in the month of August 2022. IEEE ROMA 2022 is the flagship event of IEEE Robotics and Automation Society, Malaysia Chapter listed as IEEE approved conferences #55875. This year IEEE ROMA 2022 is technically sponsored by Ryerson University, Toronto, Canada. The focus of this episode is role of robotics and automation in pandemic and post-pandemic era. Malacca is one of the most popular tourist destinations in Malaysia. Every evening the famous Jonker Street night market is buzzing with tourists from all over the world. In 2008 UNESCO listed Malacca as World Heritage Site. Besides the many beautiful historical sites Malacca is also well known for its great food. Experts claim the best local dishes in Malaysia originate from Malacca.

**All accepted papers in IEEE ROMA 2022, will be published in the conference proceedings and will be submitted for publication in IEEE-Xplore database (All previous IEEE ROMA proceedings are published in IEEE-Xplore and indexed in SCOPUS). The papers accepted in workshops and Special Sessions will be submitted for potential publication in indexed journals.**

IEEE-ROMA 2022 will feature interactive Technical Sessions, PhD & Industry Forums, Robotic Competitions and Exhibition. The program includes keynote addresses by eminent scientists as well as presentation by delegates from industries. IEEE ROMA 2022 welcomes submission of original and unpublished works related to robotics and manufacturing automation.

**IEEE RAS**  
MALAYSIA CHAPTER

**Ryerson University**

**IEEE**  
MALAYSIA SECTION

**IEEE**  
Advancing Technology  
for Humanity

### A. REGULAR SESSION (Topics of Interest but not limited to):

- Mechatronics and Robotics
- Haptic Devices for Robotics
- Biomimetic
- Tele and Medical Robotics
- Underwater Robotics
- Agriculture Robotics
- Swarm Robotics
- Neuro and Fuzzy Control
- Natural Language Processing
- Aerial and Ground Robotics
- Prosthetics and Exoskeleton Systems
- Micro and Nano Robotics
- Mems & Nems
- Robotics/Machine Vision
- Machine Learning for Robotics
- Human Machine Interface
- Factory and Industry Automation for Industry 4.0
- Bio-inspired robotics
- Cognitive Robotics
- Distributed & Swarm Robotics
- Service & Social robots
- Bio robotics and Medical Robots
- Prosthetics limbs/ legs
- Behavioral study of robots & Robot Ethics
- Autonomous vehicles
- Sensor-fusion for intelligent automation systems
- Smart factories, smart logistics and supply chains
- Smart automation in construction and manufacturing
- Smart home/building automation
- Smart and connected healthcare automation
- Sustainability and green automation
- Nanorobotics
- Bipedal & Humanoid Robotics
- IoT for Industrial Automation and **many more**

### B. SPECIAL SESSIONS



**Leveraging AI for Healthcare**  
Prof. Dr. Sridhar Krishnan,  
Ryerson University Toronto, Canada



**AI applications in Power Engineering.**  
Prof. Dr. Bala Venkatesh  
Ryerson University, Toronto, Canada

## C. KEYNOTE SPEAKERS



**Keynote Speaker 1**  
Professor Walimir Freitas  
University of Campinas, Brazil



**Keynote Speaker 2**  
Associate Prof. Dr. Fahad Mumtaz Malik  
National University of Sciences and  
Technology, Islamabad, Pakistan



**Keynote Speaker 3**  
Prof. Dr. Sridhar Krishnan,  
Reyerson University Toronto, Canada

## Organizing Committee

- **Honorary Chair**  
Dr. Mohamed Khan Afthab Ahamed Khan
- **General Chair**  
Dr. Syed Saad Azhar Ali
- **Co-Chair**  
Dr. Tanveer Saleh  
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- **Secretary**  
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- **Treasurer**  
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Dr. Elango Natarajan
- **Publications**  
Dr Wan Nurshazwani Binti Wan Zakaria  
Dr. Ahmad Athif Mohd Faudzi
- **Event Management & Logistics**  
Dr Muhammad Fahmi Bin Miskon

## Highlights of the Events of IEEE RAS Malaysia



**International Advance Robotics Competition iARC**



**Industrial Visits and Workshops**



**Participation at IEEE RAS Malaysia at Autonomous UUV Challenge**



## PAPER SUBMISSIONS

Please submit full papers in IEEE conference template using the [paper submission link](#). All submitted papers should be in the form of .pdf or .doc file and are to be limited strictly to a maximum length of 6 pages including figures, tables, and references. Upon acceptance, authors will be required to register and present their papers. Papers will be published only if at least one of the authors is officially registered and present the paper on conference day.

- **Link to submit the paper:**  
<https://cmt3.research.microsoft.com/IEEEROMA2022>
- **Link for IEEE Conference template:**  
<https://www.ieee.org/conferences/publishing/templates.html>



Selection of the best paper award will be made at the conference based on both the technical content and presentation. The winner will be chosen by the award committee in consultation with the international technical

## IMPORTANT DATES

<b>CALL FOR PAPER:</b>	<b>1<sup>st</sup> January 2022</b>
<b>Submission Deadline:</b>	<b>20<sup>th</sup> May 2022</b>
<b>Acceptance Notification:</b>	<b>Within 10 days of submission</b>
<b>Final Camera Ready:</b>	<b>30<sup>th</sup> June 2022</b>
<b>Final Registration:</b>	<b>31<sup>st</sup> July 2022</b>
<b>Conference Dates:</b>	<b>6<sup>th</sup> – 8<sup>th</sup> August 2022</b>

## REGISTRATION

Category	Regular Participation		Virtual Participation
	IEEE Member	Non-IEEE Member	IEEE Member / Non-IEEE Member
<b>Normal</b>	1000*	1200*	700*
<b>Student</b>	600	700	450

(Note: All charges are in MYR)

\*2 fully paid NORMAL registrations will entitle the authors to submit 3 papers.

**Contact:** [ieeeroma2022@gmail.com](mailto:ieeeroma2022@gmail.com)

**URL:** <https://ieeeroma.org/>