

PSG COLLEGE OF TECHNOLOGY, COIMBATORE - 641004 Department of Robotics and Automation Engineering

Third International Conference on Advancements in Automation, Robotics and Sensing ICAARS 2022



9 - 10 December 2022

		9 - 10 December 2022
00.20 00.00		9 December 2022 (Friday)
08.30 - 09.00 09.00 - 10.00	Inaugural Session	Registration Mr. Gary Bateman, Managing Director of Lapp India Pvt. Ltd Mr. B N Nandakumar, Executive Vice President, Fanuc India Dr. M Ramalingam, Renowned Robotic Surgeon Dr. K Prakasan, Principal, PSG Tech
10.00 - 10.30	Exhibition Inauguration	Shri. L. Gopalakrishnan, Managing Trustee, PSG & Sons' Charities
10.30 - 10.45	Exhibition mauguration	Refreshments
10.50 10.15		Advancements in Manufacturing Robotic Surgery
10.45 - 11.15	Plenary Talk - 1 & 2	Automation Automation Mr. Mahendra Patil, Fanuc India Dr. M Ramalingam, Robotic Surgeon
11.15 - 12.00	Plenary Talk - 3	Collaborative Robotics Dr. Richard Voyles, Purdue University, USA
12.00 - 12.45	Plenary Talk - 4	Future Robots Driven by Artificial Muscles Dr. Robert Katzschmann, ETH, Zurich
12.45 - 13.00	Plenary Talk - 5	Trends in Pneumatic Automation Mr. Harish Nachnani, Festo India
13.00 - 13.45		Lunch
13.45 - 14.45	Paper Presentation: Ses	
14.45 - 15.00		Tea Break
15.00 –15.30	Plenary Talk - 6	Development of Robotics for Remote Inspections Mr. S Joseph Winston, IGCAR, Kalpakkam
15.30 - 16.15	Plenary Talk - 7	Proposal for Process Chain Improvement in Topology Optimization Considering Manufacturing Constraints Dr. Klaus Mecking, University of Westfälische, Germany
16.30 - 17.30	Paper Presentation: Ses	ssion 2A Session 2B Session 2C
18.00 - 19.00		Gala Event
19.00 - 20.30		Dinner
		10 December 2022 (Saturday)
08.30 - 09.15	Plenary Talk - 8	Connecting the Unconnected through UAV's Dr. Mahasweta Sarkar, San Diego State University
09.15 - 10.00	Plenary Talk - 9	Future of Medical Robotics: Challenges and Opportunities Dr. T Kesavadas, SUNY, Albany
10.00 - 10.15	Plenary Talk - 10	Latest Trends in Automation Mr. D Balakumar, Lapp India Pvt. Ltd
10.15- 10.30		Refreshments
10.30- 10.45	Plenary Talk - 11	Advancements in Automation: Influence of 5G in Automation – A Perspective Mr. R Krishnamoorthy, NavTat Solutions
10.45- 11.15	Plenary Talk - 12	Latest Trends and Development in Marine Robotics for Low Carbon Solutions Mr. Satish Ramachandran, AROBOTNX, Chennai
11.15 - 11.30	Plenary Talk - 13	Advanced Robotics Platforms for Education, Research and Application Development Mr. Adithya Marathe, Nugenix Robotics
11.30 - 12.30	Paper Presentation: Ses	
12.30 - 13.30		Lunch
13.30 -14.00	Plenary Talk - 14	Industry 4.0 and Future of Jobs Dr. Prahlad Vadakkepat, NUS, Singapore
14.00 -14.30	Plenary Talk - 15	High-Fidelity Haptic Feedback for Tele-robotic Surgery Dr. Asokan Thondiyath, IIT Madras
14.30 -15.30	Paper Presentation: Ses	
15.30 - 15.45		Refreshments
15.45 - 16.15	Plenary Talk - 16	Surgical Applications of Flexible Endoscopic Robots Dr. Dong-Soo Kwon, KAIST, Korea
16.15 -16.45	Plenary Talk - 17	Robotic Surgery
10.15 -10.45		Dr. P R Murugesan , PSG IMSR