



ROBOTECH

MONTHLY NEWSLETTER

ROBOTICS AND AUTOMATION

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VISION

Progress through quality education and evolve into a center for academic excellence in the field of Robotics and Automation.

MISSION

To provide a supportive academic environment for value-added education and continuous improvement to become the leaders in robotic research and education. To develop socially responsible engineers with technical competence, leadership skills and team spirit.

ICIMRBE'26



The 2nd International Conference on Innovations in Mechanical, Robotics, Computing and Biomedical Engineering (ICIMRBE '26) was inaugurated at Adi Shankara Institute of Engineering and Technology (ASIET), Kalady, on August 4, 2026. Dr. T. Asokan, Professor, IIT Madras was the distinguished guest at the inaugural ceremony

The conference featured a distinguished panel of keynote speakers from leading academic and industrial institutions, including Dr. T. Asokan, Dr. Prahlad Vadakkeppat, Dr. Babu Varghese, Dr. K. Mathiyazhagan, and Dr. Resmi Allirani Gopalapillai



ICIMRBE '26 provided a vibrant platform for knowledge sharing, research presentations, interdisciplinary collaboration, and discussions on innovative solutions to contemporary technological challenges.

Mr. Fawaz, Mr. Dikeep K., and Ms. Mija S. J. have received the Best Paper Award for their outstanding research paper entitled "Occlusion-Avoidant Visual Servoing Using Reinforcement Learning-Based Integral Terminal Sliding Mode Control for a 5-DOF Robotic Manipulator." in the track of Dynamics, Control, Automation & Intelligent Robotics.



**Participants presenting
their innovative
research and ideas
during ICIMRBE '26.**



**ICIMRBE '26 brought
together researchers,
students and experts to
share ideas and advance
technology.**



MOU SIGNED WITH QMARK TECHNOLOGIES



The Department of Robotics and Automation at Adi Shankara Institute of Engineering and Technology (ASIET), Kalady, has signed a Memorandum of Understanding (MoU) with Qmark Technologies Pvt. Ltd., Kalamassery, Kochi. The collaboration aims to strengthen industry-academia interaction and create enhanced opportunities for student training, skill development, and placements.

Through this MoU, students will gain greater exposure to industry practices and emerging technologies, helping them bridge the gap between academic learning and professional requirements. The partnership is also expected to facilitate training programmes, industry-oriented learning initiatives, and improved placement opportunities for students.

The MoU marks another significant step towards empowering students with industry-relevant skills and preparing them for successful careers in the field of Robotics and Automation.

TECHNICAL SESSION

PYTHON & ROS2 WITH MATLAB

The Department of Robotics and Automation organized a technical session on “Integration of Python and ROS2 with MATLAB” on 19 August 2026 at 10:30 a.m. at the RA Seminar Hall. The session was led by Dr. Souvick Chatterjee, Technical Manager – Customer Success Engineering, MathWorks India, Bangalore, who also leads the Education Team at MathWorks for strategic academic collaborations.

The session provided insights into the integration of Python and ROS2 with MATLAB, along with various libraries and tools useful for developing robotics projects. Third-year Robotics and Automation students and faculty members actively participated in the session, gaining valuable technical knowledge and practical insights into modern robotics development tools. The session concluded with an interactive discussion, providing participants an opportunity to explore the applications of MATLAB, Python, and ROS2 in robotics projects.



Dr. Chatterjee leads the Education Team at MathWorks for strategic academic collaborations and promotes computational thinking and model-based, product-oriented approaches in research and education. He is a recipient of the Best PhD Thesis Award and Young Scientist Award from the International Society for Energy, Environment and Sustainability. He has worked as a Postdoctoral Associate at the University of Illinois at Chicago and as a Strategy Consultant at EnterpriseWorks Chicago.



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ACHIEVEMENTS



S7 RA STUDENTS EXCEL AT AI POWER-2026

THE DEPARTMENT OF ROBOTICS & AUTOMATION PROUDLY CELEBRATES THE ACHIEVEMENT OF ITS S7 STUDENTS AT AI POWER-2026, A TECHNICAL CONCLAVE ON “AI FOR SUSTAINABLE ENERGY SYSTEM DEVELOPMENT.” THE EVENT WAS ORGANIZED BY THE IEEE MADRAS SECTION STUDENT ACTIVITIES COMMITTEE (SAC) IN ASSOCIATION WITH KARE IEEE PES SBC & IEEE PES MADRAS CHAPTER AND WAS HELD ON 8TH AND 9TH AUGUST 2026 AT KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, KRISHNANKOIL.

THE STUDENTS SHOWCASED THEIR INNOVATION, TECHNICAL EXPERTISE, AND CREATIVITY, SECURING SECOND PRIZE IN BOTH THE PROJECT EXPO AND POSTER PRESENTATION CATEGORIES.

PROJECT EXPO – 2ND PRIZE

ADWAITH KRISHNA P S, ROHIN FRANCIS & ARYAN SOJI
₹3,000 + SILVER COINS

POSTER PRESENTATION – 2ND PRIZE

PANKAJ K VINOD, AKHIL BABU & ALAN BABY
₹2,000 + SILVER COINS

THIS ACHIEVEMENT HIGHLIGHTS THE STUDENTS' DEDICATION TO APPLYING AI AND EMERGING TECHNOLOGIES TO DEVELOP INNOVATIVE SOLUTIONS FOR SUSTAINABLE ENERGY SYSTEMS. THE DEPARTMENT EXTENDS ITS HEARTIEST CONGRATULATIONS TO THE STUDENTS AND THEIR MENTORS FOR THIS REMARKABLE ACCOMPLISHMENT.

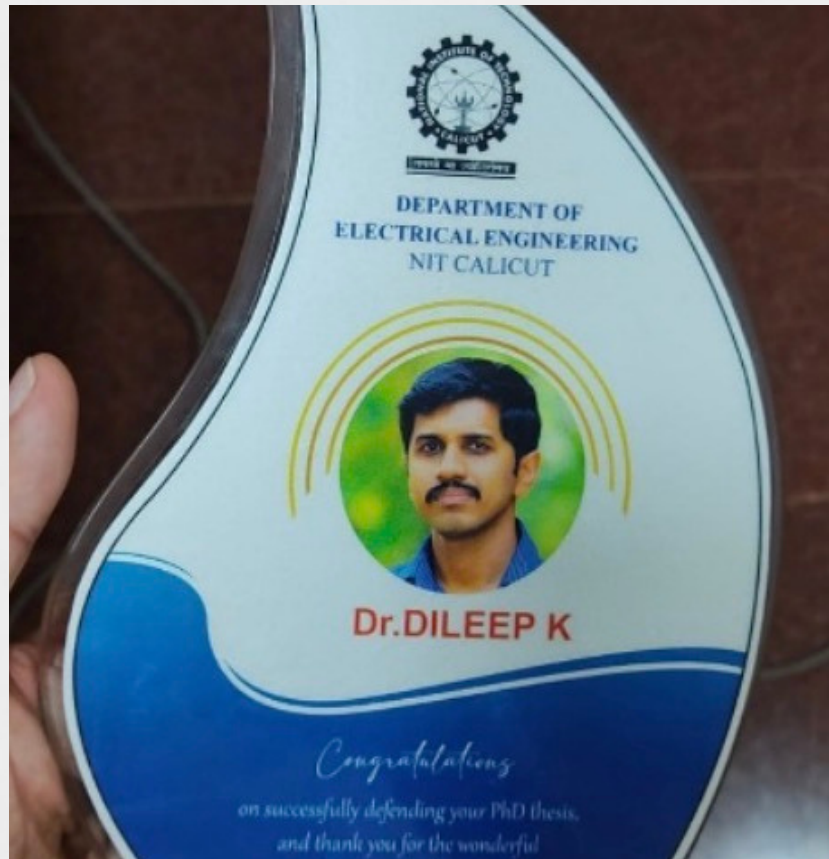


S7 Robotics and Automation Students Secure Prizes at AI Power-2026



CONGRATULATIONS

FACULTY ACHIVEMENTS



Congratulations to Dr. Dileep K.

Heartiest congratulations to Dr. Dileep K. on successfully defending his Ph.D. thesis at NIT Calicut on the topic: “Cooperative Robot Manipulation in Unstructured Environment: Design and Testing of Predictive Control Schemes Using Visual Servoing and Physics-Informed Neural Network.”

Wishing you continued success and many more achievements in your academic and research journey.

WELCOME, 2026–30 BATCH!



A warm and enthusiastic welcome to the 2026–30 batch of Robotics & Automation!

As you begin this exciting journey, may your years ahead be filled with innovation, exploration, learning, and unforgettable experiences. Step into the world of robotics with curiosity, dream big, and turn your ideas into reality.

Welcome to the Robotics & Automation family!

TECH INSIGHTS

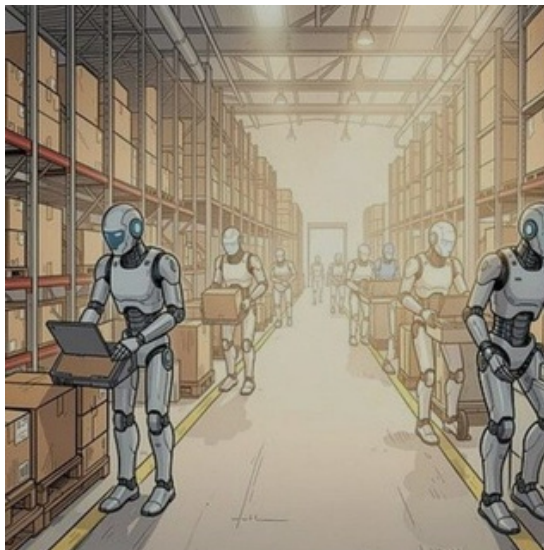
CHINA: THE NEW CENTER OF GRAVITY

From technology demonstrations to commercial deployment, August 2026 marked a pivotal shift in the humanoid robotics landscape.

The 2026 World Robot Conference (WRC) in Beijing signaled a fundamental shift in the robotics industry. Opening with a dedicated "Procurement Day," the event moved beyond the flashy demos of previous years to focus on industrial matchmaking and supply chain integration. TrendForce projections now place China's humanoid market at CNY 15 billion for 2026, with an expected growth of 60% in 2027.

This shift is driven by a focus on "Physical AI"—the transition from scripted automation to general-purpose machines that perceive and act within complex physical environments. Humanoid robots are increasingly moving beyond laboratory environments, entering automotive, aerospace, and logistics facilities to test their commercial viability in high-stakes settings.

Leading the charge is AgiBot, which reached a milestone of 15,000 robots produced as of June 2026. Their G2 industrial task robot has been notably livestreamed performing tablet inspections in 3C electronics plants, working continuously alongside human colleagues. This level of production scale marks a significant transition from product validation to mass-market delivery.



"The core question every robotics team is answering right now: Can this robot go from watching a task once to doing it reliably—without being reprogrammed?"

Unitree's IPO Realities

The financial markets have shown immense appetite for robotics, but the underlying data tells a more complex story. Unitree's market cap hit CNY 444.9 billion following its August listing. However, while 2025 revenue more than tripled to CNY 1.699 billion, recurring net profit is projected to drop significantly. This suggests that scaling shipments has not yet translated into sustainable cost advantages.

The CATL-Galbot Synergy

Perhaps the most concrete commercial case is the Galbot S1, a 50-kilogram dual-arm humanoid powered by CATL's own battery systems. Unlike pilot projects, the S1 is now in regular operation on battery module lines, handling material transportation and component picking. This partnership is also building an aftermarket service framework, treating humanoids as standard industrial assets rather than experimental prototypes.

Global Deployment Scenarios

UBTECH has expanded its footprint beyond domestic pilots to five key global scenarios: aviation manufacturing (Airbus), automotive assembly, 3C electronics, smart logistics, and semiconductor manufacturing. These environments provide the necessary "edge cases" to train the next generation of foundation models.

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