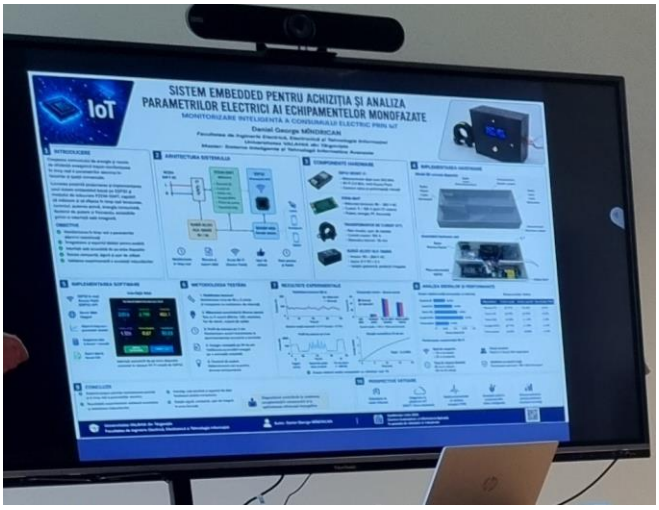
ROBOTS IN ACTION
PROFESSIONAL CONTEST
2025

The Robotics Society of Romania, Târgoviște branch, together with the Faculty of Electrical Engineering, Electronics and Information Technology within the "Valahia" University of Târgoviște, organized the 19th edition of the student scientific thematic competition "ROBOTS IN ACTION" on May 29th, 2026, starting at 10:00 AM. Concurrently, the 7th edition of the Student Scientific Communications Session "Automated Control and Applied Informatics in Laboratory and Industrial Processes" – CAIA 2026 took place, organized by the Department of Automation, Informatics and Electrical Engineering.





As in every year, maintaining the tradition for our guests and partners, our competition brought together students, student teams, and high school students from regional colleges, who highlighted their practical achievements in the innovative fields of ROBOTICS, MECHATRONICS, AUTOMATION, AND INFORMATICS.

Highlighting some of our students' technical applications, built within our faculty, these include: IoT Home Automation Circuit, Soil Moisture Parameter Monitoring with Arduino Mega, LoRa Technology-Based Greenhouse Monitoring and Control System, Drone for Meteorological Parameter Monitoring, Fire Alert System Using Environmental Sensors and an Arduino Nano Development Board, Color and Brightness Identification System with Arduino Nano, Conversational Assistant for Technical Troubleshooting with Explainable Steps, Implementing an Embedded System (PLC) for Traffic Control in Construction Work Zones, Data-Driven Approaches for Artificial Intelligence-Based Forensic Applications, Design and Implementation of an IoT System for Measuring and Displaying Environmental Parameters, Design and Implementation of a Controlling-Based Star-Delta Control System for Asynchronous Motors, Web Platform for the Creation and Automatic Evaluation of Educational Multimedia Materials Using Artificial Intelligence, Line Follower Robot, Autonomous Maze Robot, Integrating Robotics and Intelligent Systems into Military Equipment Manufacturing - Technological, Economic, and Strategic Impact, The Impact of VR/AR Technologies and Video Games on the Development of Cognitive Skills, Tank-Type Robot with a Robotic Arm.

Representatives from the industrial and business sectors, as well as local and county administrations, joined us at the event. As has become a tradition, several exhibiting students were recruited by the Human Resources departments of the attending employers, thereby taking their first step toward an engineering career.






The event was also broadcast via MS Teams and on our own YouTube channel, specifically for those interested, and particularly for our international partners.

With this edition, we have confirmed that our students, beyond their competitive spirit, can meet the rigorous demands of the engineering profession by demonstrating enhanced technical skills. They proved capable of addressing numerous inquiries from the industrial and business environment and, finally, demonstrated to the institution that trained them that our efforts were not in vain. Society can rely on these future graduates to carry forward the prestige of Romanian higher education.

https://www.robotics-society.ro
http://www.fie.valahia.ro

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