

ROBOTS IN ACTION PROFESSIONAL CONTEST 2022

As we have taught our students, but also the socio-economic environment of our region, on 03 June 2022, about a month before the submission of the diploma and dissertation papers, students and master students of the Faculty of Electrical Engineering, Electronics and Information Technology, from the University "Valahia" in Targoviste, participated in the XV edition of the professional competition "ROBOTS IN ACTION".

UNIVERSITATEA VALAHIA DIN TÂRGOVIȘTE
FACULTATEA DE INGINERIE ELECRICĂ, ELECTRONICĂ ȘI
TEHNOLOGIA INFORMAȚIEI

**ZILELE ACADEMICE ALE ȘTIINȚEI
ȘI TEHNICII TÂRGOVIȘTENE**

INVITAȚIE

Cu prilejul "National Conference of New and Renewable Energy Sources—CNSNRE 2022", organizată de Institutul de Cercetare Științifică și Tehnologică Multidisciplinară, Facultatea de Inginerie Electrică, Electronică și Tehnologia Informației, din cadrul Universității "Valahia" din Târgoviște, împreună cu Societatea de Robotică din România, filiala Târgoviște, au deosebita onoare de a vă invita să participați Vineri, 03 Iunie 2022, începând cu ora 12,00, la a cincisprezecea ediție a concursului tematic științific studențesc:

"Roboți în Acțiune"
Ediția a XV-a

Transmisiune LIVE pe canal YOUTUBE

Campus IUT, Hărușle Institutului de
Cercetare Științifică și
Tehnologică Multidisciplinară, parter

Ediția desfășurată atât în față și on-line
pe
Platforma M3_TEAMS

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organizare:**
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The event was organized together with the Romanian Robotics Society, Târgoviște branch, and the Students League. Unlike the last two years, when we were forced to move online, this time, the papers were mostly presented face-to-face, but we also had remote presentation sessions

(especially for student employees who could not be present), using the video-conferencing platforms, MS_TEAMS and ZOOM.

As a novelty, this year our competition was held in conjunction with another event at our institution. It was the 20th National Conference of New and Renewable Energy Sources - CNSNRE, organised face to face and/or online by University of Valahia, Targoviste. On this occasion the International Project Includeme was launched in Targoviste. The Includeme project was presented by ATS (our industrial partner) within the workshop "The Digital Learning Ecosystem - STEM. Perspectives and Renewable Energy Best Practices" which aimed to provide insights regarding the approaches, best practices, and digital solutions that can build and consolidate the multifaceted nature of sustainability education.

In the "Robots in Actions" competition section, students presented videos of their applications, live snapshots, demonstrations of their personal work, putting their innovations to work in front of the audience.

A total of 14 student applications were entered in the competition, in different fields that have become the benchmark of our event: Robotics, Automation, Computer Science or Mechatronics.

Pictures from the event could also be viewed through a LIVE broadcast of the event at the following addresses: <http://www.robotics-society.ro/filiale.html>, <http://www.srr.ssai.valahia.ro>, and on our Youtube channel.

At the XV edition, there were, among others, technical applications made in our faculty, such as: Flexible sorting line using SCADA, Design and assembly of a patruped robotic system, Three-dimensional educational game, Web-controlled surveillance robot, Study on automated visual inspection for quality control, Design and implementation of a teaching stand with PLC and HMI, Design, development and control of a robotic arm using IoT technologies, Facial recognition - Implementation of an access control system, Smart building with facilities for disabled people, Personal assistant for smart homes, Robotic manipulator arm in pathological-radioactive field, Design of command and control system for an industrial robot for assembly operations.

This time, we had important guests, such as students from a number of top high schools in Dambovita county, along with representatives of the industrial, administrative and business environment of our county, from the Muntenia region to watch, identify and hire future engineers.

At the end, various prizes and diplomas for the participants could not be missing.

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