

SCSS 2019

SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE STUDENȚEȘTI

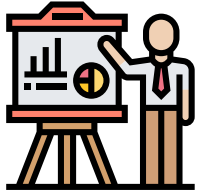
Robotics, IoT & Process Automation

Joint session



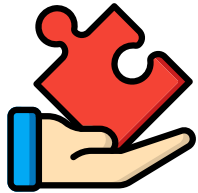
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Why SCSS on Robotics, IoT & Process Automation



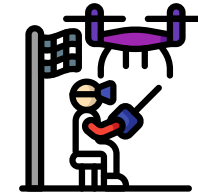
Improve students' presentation skills

Encourage teamwork



Encourage high complexity projects

Attract students to Robotics, IoT and Hardware projects



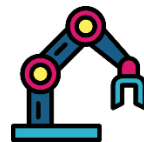
Encourage interdisciplinary projects



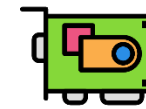
ML



IoT



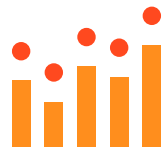
Robotics



Hardware Design



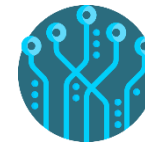
Data Acquisition



Data Visualization

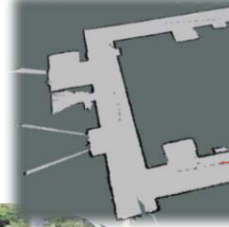
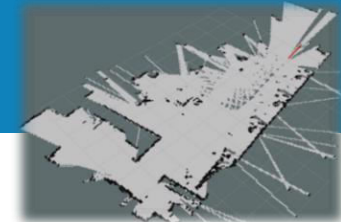


Mobile Apps

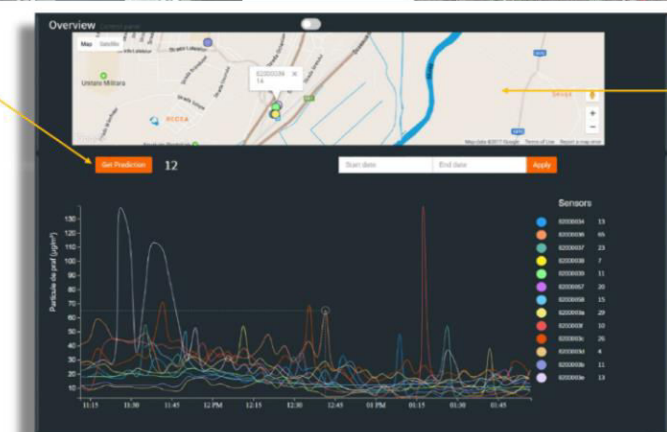


Embedded Programming

Previous editions



Regresie polinomială



Localizarea măsurătorilor



Previous editions (examples)

Firmware architecture and implementation for a pick-and-place machine for automated testing

Optical Flow based aerial drone positioning system

Special purpose magnetic field sensor for aerial drone positioning and control

Extendable Gateway and Industrial Firewall based on ModBus protocol

CredXp - ML-based evaluation system for automated score for factoring type bank-loans

Signal filtering and ML based approaches for determining neuro-degenerative diseases

YardLabs - distributed monitoring sensors system for large scale agriculture applications

Maze Solver - autonomous robot for maze competitions

Back-end infrastructure for Smart Cities

INTACT - Wireless Bridge solution for industrial environments

Autonomous robot for building mapping

Competition ready, high performance mini-sumo robot

Format

24 presentations from



5 minutes
with slides



2 minutes
Q&A



Senior (Final year / Master)



First / Second / Third* year

2 tracks

Prizes:

- University supported
- Partners supported
- Giveaways
- Summer scholarships



Audience: 100+ students



Keynote from main sponsors
Short notes from all sponsors



Afterparty



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**Only if enrolled in a 4-year programme. For the 3-year programmes, the 3rd year will be considered as last, thus placed in the "senior" category.*

Schedule | Saturday 11.May.2019

Time	Activity	Duration
9:00	Welcome guests & Coffee	30min
09:30	Official opening	10min
09:40	Session 1 – 12 presentations	90min
11:10	Break	15min
11:25	Session 2 – 12 presentations	90min
12:55	Key Note from main sponsor(s)	20min
13:15	Break	10min
13:25	Jury announces prizes & festivity, including notes from sponsors	25min
13:50	Pizza & Refreshments	