

SSET 2024

Program at a glance

Time	Event	Section		
		Student TST	Student EA-IM	Master-Doctor
8.00 - 8.30	Opening ceremony	room 359		
8.30 - 10.30	Presentations	room 359	room 367	room S01
10.30 - 10.45	Coffee break			
10.45 - 13.15	Presentations	room 359	room 367	
13.15	Partners presentations and awards ceremony	room 359		



SSET 2024

Committees

Scientific committees

Section 1 - Student TST

Chairman: Prof. Virgil DOBROTĂ, PhD

Members: Prof. Petre POP, PhD

Assist.prof. Camelia FLOREA, PhD

Assist.prof. Andra PĂSTRĂV, PhD

Assist.prof. Ioana ILEA, PhD

Section 2 - Student EA-IM

Chairman: Prof. Dorin PETREUȘ, PhD

Members: Assoc.prof. Marius NEAG, PhD

Assoc.prof. Albert FAZAKAS, PhD

Assoc.prof. Liviu VIMAN, PhD

Assist.prof. Călin FĂRCAȘ, PhD

Section 3 - Master-Doctor

Chairman: Prof. Corneliu RUSU, PhD

Members: Prof. Emanuel PUȘCHIȚĂ, PhD

Prof. Ramona GĂLĂTUȘ, PhD

Assoc.prof. Gabriel CHINDRIȘ, PhD

Assoc.prof. Botond KIREI, PhD

Organizing Committee:

Assoc.prof. Anca APATEAN, PhD

Assoc.prof. Lorant SZOLGA, PhD

Assist.prof. Rajmond JÁNÓ, PhD

Assist.prof. Laura IVANCIU, PhD

Chairman (coordinator): Prof. Ovidiu POP, PhD

Co-chairman: Assoc.prof. Nicolae CRIȘAN, PhD

Financial officer: Eng. Angela RUSU

SSET 2024

Detailed program

Section 1 - Student TST - room 359

8:30 – 8:45: Andrei AXENTE, Prof. Mircea GIURGIU – “An End-to-End Pipeline for Handwritten Text Recognition using Word Segmentation and Attention-based DNN”

8:45 – 9:00: Ioana Anamaria POSTOȘ, Assoc.prof. Mihaela GORDAN – “CT Medical Image Retrieval by Cross-focus LBP Descriptors”

9:00 – 9:15: Sebastian-Adrian BABICIU, Assist.prof. Iustin IVANCIU – “The Implementation of a CI/CD Pipeline Using AWS and Terraform”

9:15 – 9:30: Anamaria-Alexandra LASCU, Prof. Virgil DOBROTĂ – “Preliminary Evaluation of a Four-Node Emulab Testbed Environment”

9:30 – 9:45: Alex BULZAN, Assist. Robert BOTEZ – “Implementing Blockchain-as-a-Service: Deployment of a Private Hyperledger Network on Kubernetes”

9:45 – 10:00: Lucian Florinel Cosmin GÎDĂR, Assoc.prof. Nicolae CRIȘAN – “Extending the reading domain of an UHF RFID Reader”

10:00 – 10:15: Vladimir GIUSTACCHINI, Assoc.prof. Anca APĂTEAN – “Generating identity document photos using Python and a Raspberry Pi-based cloud service”

10:15 – 10:30: Roxana GHEJAN, Assoc.prof. Mihaela GORDAN – “Facial Microexpression Recognition Using Local Spatial-Temporal Binary Pattern Descriptors”

10:30 – 10:45 Coffee break

10:45 – 11:00: Mihai-Tudor MUNTEANU, Prof. Virgil DOBROTĂ – “Network Traffic Analysis Using NetFlow”

11:00 – 11:15: Raluca-Andreea TRANDAFIR, Assist.prof. Ioana ILEA – “Polarimetric Synthetic Aperture Radar Image Classification based on Improved Local Quinary Patterns”

11:15 – 11:30: Gheorghe Cristian BINDEA, Assist.prof. Iustin IVANCIU – “Implementation of CI/CD Workflows for the Cross-Platform Distribution of Scopy”

11:30 – 11:45: Valentin-Dimitrie POPESCU, Prof. Mircea GIURGIU – “Advancing Drone Capabilities for Multifunctional Aerial Applications”

11:45 – 12:00: Tiberiu ȘERBĂNOIU, Assoc.prof. Nicolae CRIȘAN – “Prototyping a Solar Tracking System”

12:00 – 12:15: David OROIAN, Prof. Virgil DOBROTĂ – “First Steps in Telecommunications Traffic Classification with Machine Learning”

12:15 – 12:30: Daniela TOADER, Assoc.prof. Mihaela GORDAN, Dan-Cristian SÂMPETREAN – “An Interactive Python GUI-Based System for Underwater Image Enhancement and Restoration”

12:30 – 12:45: Daniela MARTE, Assist.prof. Iustin IVANCIU – “Automatic Application Deployment System for AWS and Kubernetes”

SSET 2024

Detailed program

Section 2 - Student EA-IM - room 367

8:30 – 8:45: Răzvan-Andrei TERHEȘ, Prof. Ramona GĂLĂTUȘ – “Image-based Temperature Measurement with Fiber Optics”

8:45 – 9:00: Cristina-Elena BOGĂTEAN, Assoc.prof. Mihaela GORDAN – “A Visually Self-Explainable Interactive System for Retinal Image Retrieval”

9:00 – 9:15: Vlad-Andrei CRISTESCU, Assoc.prof. Liviu VIMAN – “PCB temperature controller for automated soldering”

9:15 – 9:30: Vlad VELICIU, Assoc.prof. Liviu VIMAN – “System for Automatic Greenhouse”

9:30 – 9:45: Denisa-Ionela PETRARU, Assoc.prof. Septimiu POP – “Smart tiltmeter using image sensors”

9:45 – 10:00: Victorina LUPOI, Tomina Fabiola SĂLĂJAN, Assist.prof. Raul ONEȚ – “Current Recycling-Based LDO for Large Load Applications”

10:00 – 10:15: Octavian-Constantin AXINTE, Assist.prof. Mihai DĂRĂBAN – “Signal Integrity Analysis on eMMC Interface”

10:15 – 10:30: Nicolae-Adrian POP, Assoc.prof. Liviu VIMAN – “Self-Driving Car”

10:30 – 10:45 Coffee break

10:45 – 11:00: Iulian-Teodor GOIA, Iulian CÂMPANU, Assist.prof. Raul ONEȚ – “Comparative study on minimizing noise in bandgap voltage references in CMOS technology”

11:00 – 11:15: Petru-Rareș MOLDOVAN, George-Gabriel SIMEON, Assist.prof. Raul ONEȚ – “Feedback Buffer Architectures for LDO Voltage Regulators”

11:15 – 11:30: Daniel-Andrei BULUGHEANĂ, Assist.prof. Toma PĂTĂRĂU – “SPWM Signal Generator for Single Phase Inverter”

11:30 – 11:45: Lucas Ștefan MANCIU, Assist.prof. Toma PĂTĂRĂU – “Development of Single Phase Modular Inverter”

11:45 – 12:00: Ștefan Alexandru TĂNASĂ, Assoc.prof. Botond KIREI - “On Hardware Acceleration of Artificial Reverberators”

12:00 – 12:15: David-Gabriel COMBEI, Assoc.prof. Adriana STAN – “Multimodal emotion recognition using pretrained self-supervised text and speech models”

12:15 – 12:30: Giovanni Orlando Giuliano DÎLJA, Viorela-Ligia VĂIDEAN, Prof. Șerban MEZA – “The Impact of Technology on Labor Productivity – Past, Present and Future”

12:30 – 12:45: Marian-Nicolae CAP, Assist.prof. Iustin IVANCIU – “Automatic Deployment of a Java Application in AWS Using Jenkins”

12:45 – 13:00: Emanuel POP, Assist.prof. Iustin IVANCIU – “Mobile Android Application for Organising Airsoft Games”

13:00 – 13:15: Ana-Maria GHERHEȘ, Sergiu ROMANIUC, Priscilla-Gețiana RUS, Assist.prof. Aurelia CIUPE – “Creating Building-Scale 3D Virtual Tours: A Case Study of Research Laboratories at Technical University of Cluj-Napoca”

SSET 2024

Detailed program

Section 3 - Master-Doctor - room S01

8:30 – 8:45: Alin-Tudor SFERLE, Prof. Virgil DOBROTĂ – “SOAICPhishing Implementation: A Bot-Powered Consultant Approach”

8:45 – 9:00: Cătălin-Ionuț OPRIȚA, Assoc.prof. Liviu VIMAN – “Workflow Implementation and Signal Integrity Simulation of a PCI Express Gen3 High-Speed Digital Interface using CST Studio”

9:00 – 9:15: Róbert-Jenő KOVÁCS, Assoc.prof. Albert FAZAKAS – “KO – RESET Uninterruptible power supply (UPS) power state monitoring and control device”

9:15 – 9:30: Alexandru OPREA, Assoc.prof. Botond KIREI – “Method to Expand Spectrum Analyzer Range”

9:30 – 9:45: Emilia GHEORGHITĂ, Iulian CÂMPANU, Assist.prof. Raul ONEȚ – “Innovative automated approach for sizing essential basic building blocks in CMOS submicronic nodes”

9:45 – 10:00: Sergiu-Andrei PARFENOV, Iulian CÂMPANU, Emilia GHEORGHITĂ, Assist.prof. Raul ONEȚ – “An automatic approach on sizing current limitation circuitry for linear regulators used in PMICs”

10:00 – 10:15: Mihnea-Antoniou COVACI, Prof. Ramona GĂLĂTUȘ, Assoc.prof. Lorant SZOLGA – “Micro-adjustable Pulsed Laser Cavity Prototype for Electromagnetic Propagation Mode Study”

10:15 – 10:30: Mihnea-Antoniou COVACI, Prof. Ramona GĂLĂTUȘ, Assoc.prof. Lorant SZOLGA – “Performance Improvement for Analog Regulators in Sustainable Energy Grid Systems”

