

Present Edition (SSET 2023)

Symposium Program

The event takes place on Friday, 26th of May, according to the below detailed timetable:

Starting Time	Events	(S1) TST-IM	(S2) EA-IM	(S3) Master/Doctor
08:00	Opening Speech	Room 41	Room 41	Room 41
08:15	ORAL Presentations	8:15 – 11:45 Room 41	8:30 – 11:00 Room 367	8:30 – 9:45 Room 368
11:45	Partners Presentations	Infineon, Bosch, Analog Devices		
12:15	Award Ceremony Closing Word			

SSET 2023 Scientific Committees:

Section 1 - ORAL Presentations: Bachelor Student

TST-IM STUDENT ORAL Presentations Committee

Chairman: Professor Virgil DOBROTĂ, PhD

Professor Mircea GIURGIU, PhD

Professor Emanuel PUȘCHITĂ, PhD

Associate Professor Raul MĂLUȚAN, PhD

Assistant Professor Camelia FLOREA, PhD

Section 2 - ORAL Presentations: Bachelor Student

EA-IM STUDENT ORAL Presentations Committee

Chairman: Professor Dorin PETREUȘ, PhD

Associate Professor Marius NEAG, PhD

Associate Professor Albert FAZAKAS, PhD

Associate Professor Liviu VIMAN, PhD

Assistant Professor Călin FĂRCAȘ, PhD

Section 3 - ORAL Presentations: MASTER/DOCTOR STUDENT Presentations Committee

Chairman: Professor Corneliu RUSU, PhD

Professor Ioan CIASCAL, PhD

Professor Romulus TEREBEȘ, PhD

Professor Ramona GĂLĂTUȘ, PhD

Associate Professor Botond KIREI, PhD

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Assoc.Prof. Lorant SZOLGA, PhD

Assist.Prof. Rajmond JÁNÓ, PhD

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Simpozionul Studențesc de Electronică și Telecomunicații

Presentations

Presentations – Section 1 (Student TST-IM)

8:15 SI-1. „Chatbot for Movie Recommendations Using Python”, Denis Pădurariu, Iustin Ivanciu	pp. 24
8:30 SI-2. „Motion Detection System Using Android and Amazon Web Services”, Paul-Cristian Ionescu, Iustin Ivanciu	pp. 26
8:45 SI-3. „Developing of a multiwire cable continuity tester device” Tudor Băldean, Șerban Meza	pp. 28
9:00 SI-4. „mmWave System Precoding Using Hybrid Beamforming and MIMO Transmitter Arrays” Mircea Diana-Elena, Emanuel Pușchiță	pp. 30
9:15 SI-5. „Network-Aware TCP Congestion Control Algorithm Selection Using Ansible” Cosmin Cozma, Robert Botez	pp. 32
9:30 SI-6. „Evaluation of WebRTC and SIP Performance in a Private Cloud” Denisa-Oana Selin, Virgil Dobrotă	pp. 34
9:45 SI-7. „Nano LabCar: AHIL Testing System Using Raspberry Pi Pico and Arduino Every Nano” Natalia-Liliana Ciolte, Răzvan-Andrei Vidroiu, Raul Măluțan, Iustin Ivanciu	pp. 36
10:00 SI-8. „Optimizing Speech Emotion Recognition with Exhaustive Feature Selection and a Deep Convolutional Recurrent Neural Network” Valentin-Dimitrie Popescu, Mircea Giurgiu	pp. 38
10:15 SI-9. „Integrating an IoT Weather Station and Web Application for Smart Farming” Teodor-Mihai Cosma, Laura Ivanciu	pp. 40
10:30 SI-10. „Fast-Reroutable Networks with P4 Programmable Switches” Gabriel-Mihai Oltean, Virgil Dobrotă	pp. 42
10:45 SI-11 „Automatic Application Deployment System Using Jenkins and AWS” Gabriela-Marina Gherman, Iustin Ivanciu	pp. 44
11:00 SI-12 „Network Slicing with Open Source MANO and OpenStack” Teodor Sava, Robert Botez	pp. 46
11:15 SI-13. „Introduction to Hamming Group Codes and Demonstration of their Functionality through a Python Application” Valcan Darius-Florian, Monica Borda	pp. 78
11:30 SI-14. „Face Recognition Using Local Binary Pattern Histogram”, Valentin-Dimitrie Popescu, Raul Măluțan	pp. 80

Presentations – Section 2 (Student EA-IM)

8:30 S2-1. „Weather Station” Mihai Lăcătuș, Dorin Petreuş	pp. 48
8:45 S2-2. „Glasses for Orientation” Rareş Bartoş, Dorin Petreuş	pp. 50
9:00 S2-3. „Forklift prototype implemented with Mechanum wheels” Cătălin Oprea, Liviu Viman	pp. 52
9:15 S2-4. „Synchronous buck converter development board” Leonard-Gabriel Dumitru, Botond Kirei	pp. 54
9:30 S2-5. „Comparison of three over current protection circuits for LDOs”, Elena Marian, Mădălina Farcaş, Raul Oneţ	pp. 56
9:45 S2-6. „Over/Under Voltage and Thermal Shutdown protections for LDOs used in PMICs: Design techniques” Sergiu-Andrei Parfenov, Raul Oneţ, Simeon Gabriel	pp. 58
10:00 S2-7. „Model Based Design of a PMSG Wind Turbine” Valentin Cristea, Laura Ivanciu	pp. 60
10:15 S2-8. „Adaptive Cruise Control” Andrei Dascăl, Dorin Petreuş	pp. 62
10:30 S2-9. „Digital FIR filter implementation and analysis using Arduino UNO board” Raluca Ardelean, Ervin Szopos	pp. 64
10:45 S2-10. „Hybrid low-dropout linear regulator” Flaviu-Cristian Moldovan, Cristian Răducan	pp. 66

Presentations – Section 3 (Master/ Doctor)

8:30 S3-1. „Comparative analysis of symmetrical OTA improvement techniques used for voltage regulators” Alessandro Battigelli, Cosmin Sorin Pleșa, Raul Oneţ, Marius Neag	pp. 68
8:45 S3-2. „Wideband RF Front-end Modeling in MATLAB” Kovacs Gergő, Alexandru Oprea, Botond Kirei	pp. 70
9:00 S3-3. „Implementation and testing of a Class D audio power amplifier” Vlad-Claudiu Hanăș, Ovidiu Pop	pp. 72
9:15 S3-4. „Citric and ascorbic acid classification system” Ioana-Adriana Potârniche, Codruța Saroși, Romulus Terebeș, Ramona Gălătuș, Lorant Szolga	pp. 74
9:30 S3-5. „Feedback Loop Improvement of Constant Current Regulators for High Power Laser Applications” Mihnea-Antoniou Covaci, Ramona Gălătuș, Lorant Szolga	pp. 76