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# MECO2026 & CPSIoT2026 Programme

Budva, Montenegro, June 09-12 2026

Time	Session		
	<b>IPO=In Person Oral; IPP=In Person Poster</b> <b>OLO=On-Line Oral; OLM=On-Line Media; FS=Free Slots; WiP=Works in Progress</b>		
	ROOM 1 <a href="#">ZOOM Link</a>	ROOM 2 <a href="#">ZOOM Link</a>	ROOM 3 <a href="#">ZOOM Link</a>
<b>June 09 (Tuesday)</b>			
08.00-08.45	<b>Registration</b>		
09.00-09.30	<b>Working opening</b> <i>Budimir Lutovac, Dean of the Faculty of Electrical Engineering, University of Montenegro</i> <i>Marica Melović, Ministry of education, science and innovation, Montenegro</i> <i>Radovan Stojanović, MECO General Chair</i> Other officials		
09.30-10.00	<b>Opening Break</b>		
10.00-10.45	<b>Keynote, Veljko Milutinović</b> <i>Acceleration and Paradigming in Computing and Informatics</i> <i>Moderator: Radovan Stojanović</i>		
11.00-13.00	<b>IPO #1</b> <b>Chairs:</b> Miroslav Hagara, Djuradj Budimir	<b>IPO #2</b> <b>Chairs:</b> Akbar Sheikh-Akbari, Isidora Stanković	<b>OLO #1</b> <b>Chairs:</b> Shriram Gaur, Teodora Sanislav
	<b>8)</b> Ugonna Oleh, Niravkumar Bavadiya and Roman Obermaisser, <i>Efficient On-Device Digital Phenotyping: Depression Detection via Polygon-Based Feature Generation and Quantized Deep Learning</i>	<b>108)</b> Augusta Nneka Ndu, Sina Mahroughi, Hossein Mehrabinejad and Akbar Sheikh-Akbari, <i>Enhancing Hyperspectral Aflatoxin Detection in Pistachios Using SE-Based Spectral Attention</i>	<b>3)</b> Teodora Sanislav, Denis Adrian Sipos, Andrei Tamaian, George Mois and Silviu Folea, <i>An E-nose Approach to Food Odor Identification and Freshness Assessment</i>
	<b>30)</b> Kritima Rajbanshi, Roman Obermaisser, Ivor Fleck and Yazeed Balasmeh Cherenkov, <i>Ring Parameter Estimation for Cone Vertex Determination in Low-Resolution Compton Camera Imaging</i>	<b>111)</b> Jhong-Sian He, Yun-Fan Chen and Chao Wang, <i>Towards, An Indoor Daylight-Guiding System</i>	<b>6)</b> Nexhibe Sejfuli Ramadani, Jelena Gjorgjev, Vjollca Shemshi, Erenis Ramadani, Valentina Angelkoska and Aleksandar Risteski, <i>Proof of Charge: Auditable EV-Charging Receipts with Off-Chain Hashing and On-Chain Anchors</i>



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	<b>44)</b> Moses Kasule and Djuradj Budimir, <i>Investigation of Nonlinear Distortion of RF Amplifiers for 5G FRI Full Duplex Networks</i>	<b>112)</b> Dimitrie Danailovikj, Viktor Iliev and Darko Babunski, <i>An NB-IoT Based Framework for Smart Water Distribution Management with Predictive Control</i>	<b>12)</b> Shriram Gaur, <i>From Delays to Events: A Quantitative Analysis of Causal Determinism in RTOS Task Activation</i>
	<b>65)</b> Anton Fediushin, Miroslav Hagara, Peter Kubinec and Alexander Šatka, <i>Vibration Analysis From Video Sequences</i>	<b>114)</b> Đorđe Borozan, Željko Bolević, Isidora Stanković and Miloš Brajović, <i>HybridGCN – Semi-supervised Learning with Dual Graph Shift Operator</i>	<b>20)</b> Alireza Khalilipour, Brammert Termont, Fatma Bozyigit, Matthias Bogaert and Moharram Challenger, <i>Semantic Classification-Guided Retrieval of Quality Reports for Remanufacturing Decision Support</i>
	<b>70)</b> Batuhan Korkmaz and Süleyman Tosun, <i>Energy-Efficient Scheduling of Periodic Real-Time Tasks with Replication on Heterogeneous Multiprocessor Systems</i>	<b>124)</b> Željko Bolević, Đorđe Borozan, Isidora Stanković and Miloš Brajović, <i>Image-to-Graph Conversion: The Impact of Segmentation and Node Feature Design on Graph Neural Network Performance</i>	<b>24)</b> Abdelrahman Osama, Yaseen Salah, Ahmed Elsousy, Hassan Hassan, Mohanad Fouda, Mariem Abdelmaksoud, Bevronika Gaber, Ramez Daoud, Hassanein Amer and Dina Mahmoud, <i>Reliability Analysis for Lightweight FPGA-Based Cache Architectures Targeting Space Applications</i>
	FS	FS	<b>23) – WiP-C</b> , Argyro Matraka, Charalambos Elias, Panagiotis Gkonis and Eleftherios Tsampasis, <i>Energy anomaly detection and analysis in HVAC systems in buildings using Machine Learning, Explainable AI, and Hierarchical Clustering</i>
13.00-15.00	<b>Lunch Break</b>		
15.00- 17.00	<b>IPO #3</b> <b>Chairs:</b> Natalie Simson Yuewen Xu	<b>IPO #4</b> <b>Chairs:</b> Igor Jovancevic, Milan Prokin	<b>OLO #2</b> <b>Chairs:</b> Marika Apostolova, Milan Kornelis
	<b>76)</b> Yuewen Xu, Zhihua Jiang, Xuanzhe Li and Naim Dahnoun, <i>DriftSched: Covariance-Guided Adaptive Detection Scheduling for Efficient Multi-Object Tracking</i>	<b>36)</b> Nikola Stankovic, <i>Multivariate Collaborative Mean Estimation for Resource-Constrained Image Denoising</i>	<b>25)</b> Mihir Pandya and Marika Apostolova, <i>A Practical Study of Accuracy-Latency-Robustness Trade-offs between Text-RAG and GraphRAG</i>



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	<b>78)</b> Mehmet Uğur Çapkulaç and Suleyman Tosun, <i>Deep Reinforcement Learning for Congested Multifunction Radar Task Scheduling</i>	<b>41)</b> Sara Peričić and Kosta Pavlović, <i>Optimizing Retrieval Architecture for RAG-Based QA over Montenegrin Legislation</i>	<b>27)</b> Safije Sadiki Shaini, Majlinda Fetaji and Fadil Zendeli, <i>Predicting the Time Length of Publishing a Law (TLOPL) Using Machine Learning: Evidence from an e-Parliament System</i>
	<b>94)</b> Adea Tabaku, Vigan Raca and Betim Cico, <i>Applying Message Queues for High-Volume Data Ingestion: Performance Optimization and Load Management with RabbitMQ</i>	<b>46)</b> Ivan Kukoski, Damjan Pecioski, Viktor Gavriloski and Zlatko Petreski, <i>Hybrid 3D localization for industrial manipulators</i>	<b>28)</b> Stela Lila, Zerina Altoka, Samed Jukic, Bekir Karlik and Jasmin Kevric, <i>Evaluating Machine and Deep Learning Models for Stroke Prediction with Class Imbalance Handling</i>
	<b>74)</b> Mohamed Badawy, Natalie Simson and Wolfgang Ecker, <i>Data-Driven Pipeline Architecture Selection: Synthesis Characterization for Constraint-Aware Design Generation</i>	<b>55)</b> Damjan Pecioski, Dejan Shishkovski, Viktor Gavriloski and Simona Domazetovska, <i>Design and Experimental Validation of a CostEffective Four-Point Bending Machine for Mechanical Characterization of 3D-Printed Plastics</i>	<b>31)</b> Alyaa Ismaeil, Manar Rashad, Abanoub Kamel, Ramez Daoud and Hassanein Amer, <i>Fault-Tolerant Actuator Design for Industrial Applications</i>
	<b>125)</b> Dorian Minarolli, Martin Shameti, Betim Cico and Entela Shkodrani, <i>Deep Learning-Based Melanoma Detection Optimization (From Global to Local)</i>	<b>57)</b> Filip Jovanovic, Igor Jovancevic and Patrik Jurik, <i>Vital signs estimation from videos using deep neural networks</i>	<b>34)</b> Hazem Ayman, Menna Sedik, Kareem Mostafa, Mahmoud Soliman, Samer Saber and Ibrahim Habib, <i>Cluster-Aware Dual-Level Test Specification Generation for Large-Scale Automotive Software Requirements</i>
	FS	<b>126)</b> Milan Prokin and Dragana Prokin, <i>Capturing Air Pollution from Brakes</i>	<b>37)</b> Milan Cornelis, Bert Van Acker and Paul De Meulenaere, <i>Towards Enabling Self-Adaptation Through a System State Knowledge Model</i>
	FS	FS	<b>84)</b> Diellza Përvetica, Mërgim Hoti, Arijeta Pajaziti-Qerimi and Blerim Rexha, <i>Explainable AI for Intrusion Detection Systems in IIoT and SCADA: Transparency-Performance Trade-off Analysis</i>
19.00	<b>Welcome reception from Mayor of Budva, Municipality and Academy of Science, Plantaže, Wine cocktail</b>		



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<b>June 10 (Wednesday)</b>			
08.00-08.45	<b>Registration</b>		
09.00-09.45	<b>Keynote, Akbar Sheikh-Akbari</b> <i>Advancing Non-Destructive Spectral Intelligence for Aflatoxin Risk Mitigation in Pistachio Supply Chains</i> Moderator: Dražen Jurišić		
09.45-10.30	<b>Keynote, Hans Vangheluwe, on-line or in-venue</b> <i>CPSIoT – The Twinning Paradigm</i> Moderator: Dražen Jurišić		
10.30-11.00	<b>Break</b>		
11.00-13.00	<b>IPO #5</b> <b>Chairs:</b> Orges Cico, Jordan Kralev	<b>IPO #6</b> <b>Chairs:</b> Miroslav Sokol, Drazen Jurišić	<b>OLO #3</b> <b>Chairs:</b> Kareem Wael Elhamy, Agon Memeti
	<b>83)</b> Jordan Kralev, Asparuh Markovski, Tsonyo Slavov and Alexander Mitov, <i>Design of mu-PID Controller for Axial-Piston Pump</i>	<b>106)</b> Jovana Malešević, Tanja Vuković, Filip Budimir, Bogdan Milenković, Vladimir Kojić and Matija Štrbac, <i>Feasibility of Upper-Arm EDA and ECG Measurements for Cognitive Stress Detection</i>	<b>38)</b> Elzana Dupljak, Ervin Domazet, Suad Nesimi and Bilgin Demir, <i>Ethical challenges in CNN application model for breast cancer detection on the BreakHis datasets</i>
	<b>16)</b> Blerta Idrizi, Ardrin Rexhepi, Aleksandar S. Dimovski, Goran Velinov and Shpetim Rexhepi, <i>Using ML to Classify Algorithmic Problems with Respect to Programming Technique and Language</i>	<b>72)</b> Miroslav Sokol, Patrik Jurík and Pavol Galajda, <i>ESP32-Based LoRa Communication for Agricultural IoT: Design, Implementation, and Field Evaluation</i>	<b>39)</b> Bilgin Demir, Ervin Domazet, Elzana Dupljak and Suad Nesimi, <i>Security-Efficiency Trade-offs in Real-Time ECG Classification under Adversarial and Signal Integrity Perturbations</i>
	<b>18)</b> Orges Cico, Renata Souza, Anh Nguyen-Duc and Ivan Machado, <i>Technical Debt Approach and Consciousness in Startups Transitioning to Growth Phase - A Four Facet Model</i>	<b>86)</b> Bojan Cavric, Budimir Lutovac, Costas Psychalinos and Drazen Jurisic, <i>Cadence Virtuoso and MATLAB Simulink Models of Warburg Constant Phase Element</i>	<b>40)</b> Mohamed Essam, Kareem Wael, Azza Hassan, Ahmed Haitham, Mahmoud Soliman, Samer Saber and Ibrahim Habib, <i>Trust-Aware Multi-Agent Traceability: Confidence-Calibrated Knowledge Graphs for Consistent Software Artifact Management</i>
	<b>68)</b> Jakup Berisha, Darko Babunski, Radmila Koleva and Emil ZaeV, <i>Experimental Validation of a Distributed ROS2-Based SLAM Architecture on a Low-Cost Mobile Robot Platform</i>	<b>118)</b> Blerand Zendeli, Artan Luma and Blerim Rexha, <i>A Framework for Detecting Uninvoked Event Listeners in Modern Web Applications Using Static and Runtime Analysis</i>	<b>45)</b> Anna Melnichenko, Giovanni Burresti, Mathias Brack, Moritz Schmidt and Lukas Dust, <i>Second Hand Textiles Management: A synthetic dataset approach</i>



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	<p><b>77)</b> Mitar Otašević and Žarko Zečević, <i>Compound Adaptive LOS Guidance Law for Path Following of Underactuated USVs</i></p>	<p><b>42)</b> Edon Budakova, Dhurate Hyseni, Edona Krasniqi and Betim Çiço, <i>An Empirical Study of Heterogeneous Microfrontends Across Development and Production Environments</i></p>	<p><b>51)</b> Agon Memeti, <i>From Attendance Tracking to Learning Intelligence: An AI-Driven Smart Classroom System with LMS Integration</i></p>
	FS	FS	<p><b>110)</b> Gianluca Nanni, Andrea Pasetti, Tania Di Mascio and Luigi Pomante, <i>Application of the SystemC-TLM library to an ESL HW/SW co-design methodology</i></p>
13.00-15.00	<b>Lunch Break</b>		
15:00-15:45	<p><b>Keynote, Milan Prokin. (Near) Future of Vehicles</b> Moderator: Sinisa Durovic</p>		
16.00-17.00	<p><b>IPP #7</b> <b>Chairs: Paul Tuohy, Patrik Jurík, Zuzana Sokolová</b></p>	<p><b>IPO #8</b> <b>ARCA (ARCA: ARTificial intelligence platform to prevent Climate change natural hazArds) Workshop and Project dissemination, June 10 (Wednesday)</b> <b>Chairs: Maria Mirto, Radovan Stojanovic</b></p>	<p><b>OLO #4</b> <b>Chairs: Zhihua Jiang, Vladislav Tiftilov</b> <b>16-18h</b></p>
	<p><b>4)</b> Alexandru Jutra, George Dan Mois, Teodora Sanislav and Silviu Corneliu Folea, <i>Implementing Artificial Intelligence Algorithms on Microcontroller-based Smart Edge Devices</i></p>	<p><b>Tutorial:</b> Maria Mirto, Antonio Aloisio, Cross-border operational platform based on AI technologies for monitoring the wooded areas and predicting and fighting natural hazards</p>	<p><b>52)</b> Alisan Aygar, Cansu Bozkurt and Mehmet Tahir Sandikkaya, <i>Prioritized MC/DC Framework for Early Fault Detection in Safety-Critical Software</i></p>
	<p><b>21)</b> Eva Kupcova, Matus Pleva, Milos Drutarovsky and Velibor Došljak, <i>Performance Benchmarking of Homomorphic Encryption for Fingerprint Recognition</i></p>	<p><b>89)</b> Radovan Stojanović, Jovan Djurković, Maria Mirto and Antonio Aloisio, <i>IoT Gateway for Commercial Smoke Detectors</i></p>	<p><b>53)</b> Dina Mahmoud, Omar Sabla, Reem Abdelhameed, Mohamed Bayoumi, Ramez Daoud, Hassanein Amer, Hassan Hassan and Gehad Alkady, <i>A Modified Alternating Logic-Based Self-Purging Architecture for MEU Resilience</i></p>
	<p><b>22)</b> Eva Kupcova, Matus Pleva, Zuzana Sokolová and Milos Drutarovsky, <i>Secure Biometric Authentication for Resource-Constrained IoT Devices</i></p>	<p><b>Tutorial:</b> Nicolo Malatesta, <i>RGB-Only Smoke Segmentation for Wildfire Monitoring Using an Attention-Enhanced ResNet-50 U-Net</i></p>	<p><b>63)</b> Tural Salamov, Kai Lehniger and Peter Langendoerfer, <i>Usage of Existing Functions in Return-Oriented Programming on the ESP32 S-Series</i></p>
	<p><b>43)</b> Zhanan Ao, Paul Tuohy, Sinisa Durovic and Graham Bruce, <i>Impact of Annealing on the Long-term Thermal</i></p>	<p><b>Tutorial:</b> Shahbaz Alvi, <i>The SILVANUS Project: Outcomes, Challenges, and Lessons Learned</i></p>	<p><b>73)</b> Zhihua Jiang, Yuewen Xu, Xuanzhe Li and Naim Dahnoun, <i>High-Resolution Vertical Motion</i></p>



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	<i>Measurement Performance of FBG Sensors in Electric Machine Coils</i>		<i>Reconstruction using MIMO Radar Beamforming</i>
	<b>62)</b> Patrik Jurík, Miroslav Sokol, Pavol Galajda and Igor Jovancevic, <i>UWB Radar Sensing of Liquids: Characterization of Saline Solutions</i>		<b>81)</b> Vladislav Tiftilov, <i>A Data Pipeline for Heterogeneous Sensor Integration in Smart Cities</i>
	<b>67)</b> Zuzana Sokolová, Eva Kupcová, Jozef Juhár and Nikola Pižurica, <i>Small Language Models for Edge AI: A Survey on Privacy-Preserving Toxicity and Grooming Detection</i>		<b>119)</b> Eljona Zanaj, Eva Cipi, Redi Capoj, Kristiana Lushnjari and Ina Nasto, <i>Interactive Web Platform for Biological Research Visualization</i>
	<b>75)</b> Mircea Rareş Bărbiţă and Bogdan Cristian Florea, <i>A Dynamic-Addressing Protocol for Extensible I2C-Based Device Networks</i>		<b>FS</b>
	<b>95)</b> Renát Haluška, Matúš Pleva, Maroš Pavlus and Igor Jovancevic, <i>Multi-modal of User Verification Using Audio MFCC and Keystroke Dynamics</i>		
	<b>96)</b> Renát Haluška and Andrii Kolomiets, <i>Grooming Detection Using a Multimodal AI Approach for Slovak Language Environments</i>		
	<b>97)</b> Miroslav Sokol, Milan Guzan, Michal Barilla, Pavol Galajda, Volodymyr Rusyn and Branislav Sobota, <i>Performance Evaluation of Cloudflare Tunnel for IoT Backend Exposure Behind NAT</i>		
	<b>98)</b> Renát Haluška, Zuzana Sokolová and Nikita Zubko, <i>Detection of Network Threats Using Machine Learning Algorithm</i>		
20.30-	<b>Gala Diner, Restoran Porto, Budva</b>		



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<b>June 11 (Thursday)</b>			
09:00-10.30	<b>OLO #5</b> <b>Chairs:</b> <i>Evgenia Psarra, Belsen Lee</i>	<b>OLO #6</b> <b>Chairs:</b> <i>Alla Levina, Maxim Grachev</i>	<b>OLO #7</b> <b>Chairs:</b> <i>Dmitrii Kaplun, Lusine Fljyan</i>
	<b>92)</b> <i>Evgenia Psarra, Kyriakos Stefanidis and Christos Panagiotou, Text Similarity-based Industrial Dataset Reuse Detection using Sentence Transformer Models under Controlled Perturbations</i>	<b>14)</b> <i>Hemanth Manchabale Papachappa and Narendra Badam, Riemannian Intent Manifolds for Session-Based Search: A Joint Embedding Predictive Architecture for Intent Forecasting</i>	<b>10)</b> <i>Sayan Mukherjee, Britika Khati, Dmitrii Kaplun, Asya Lyanova and Ram Sarkar, AGU-Net: An Attention and Gating-aided U-Net Model for Breast Ultrasound Lesion Segmentation</i>
	<b>100)</b> <i>Vladimir Hristov and Dimitar Pepedzhiev, Reference-Based Surface Defect Detection in Optical Lenses Using ISO 10110 Etalon Plates</i>	<b>69)</b> <i>Alla Levina and Roman Radionov, The Surrogate Gravity Well: Limits of Unconstrained Evolutionary Synthesis in Transfer Attacks</i>	<b>11)</b> <i>Debatra Banerjee, Irina Shpakovskaya, Dmitrii Kaplun, Mahantapas Kundu and Ram Sarkar, A Feature Modulation Block-aided Dual-Branch of Swin-Transformer and Ensemble of CNN Models for Breast Cancer Classification</i>
	<b>101)</b> <i>Nicolai Iuga, Ionel Zagan, Nicoleta Cristina Gaitan and Vasile Gheorghita Gaitan, Comparative Evaluation of Task Switching in a RISC-V Multi-Context Simulation Framework for Real-Time Execution</i>	<b>9)</b> <i>Nikola Stojkov and Igor Dejanović, XCG: A Universal Communication Generator for Heterogeneous Embedded Systems</i>	<b>64)</b> <i>Armen Budaghyan, Lusine Fljyan, Serob Khachatryan and Mari Santurjyan, Digital Transformation in Higher Education in Armenia: The Shift from Access to Integration is Inevitable</i>
	<b>102)</b> <i>Aleksandar Kormushoski, Ana M. Lazarevska, Aleksandar Risteski and Valentina Gecevska, From a CPS/IoT Based Concept to a Successful Real-Life Business Model</i>	<b>49)</b> <i>Maxim Grachev, Yury Parshin and Alexander Parshin, Study of Microwave Photonic MIMO Communication Channel in an Inhomogeneous Medium with Losses</i>	<b>123)</b> <i>Blanka Mateša, Natalija Parlov and Gordan Akrap, Lifecycle-Based Legal and Security Analysis of GenAI Systems under EU Copyright Law</i>
	<b>104)</b> <i>Daline Vranovci, Miranda Vranovci, Isak Shabani and Dhurate Hyseni, Event-Driven Orchestration of Sales-to-Production Workflows in Microservice-Based Fashion Systems</i>	<b>7) – WiP-J,</b> <i>Alla Levina and Stepan Chapliyov, Ensuring Noise Immunity of The Modbus Industrial Communication Protocol Based on Linear LDPC and BCH Codes</i>	<b>54)</b> <i>Suad Nesimi, Ervin Domazet, Elzana Dupljak and Bilgin Demir, A Comparative Analysis of Latency, Security, and Scalability in Heterogeneous Distributed Architectures for Autonomous Vehicles</i>
	<b>107)</b> <i>Belsen Lee and Tom Springer, A Full System Co-Simulation Platform for Evaluating Edge Machine Learning Inference Using Compute-in-Memory</i>	<b>93)-WiP-J,</b> <i>Alla Levina and Alina Lanina, A Method of Increasing the Integrity of Stored Information at the RAID 6 Level Using the Reed-Solomon Code and Combination of Syndrome and Probabilistic Decoding</i>	<b>FS</b>



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10.30-11.00	<b>Break</b>		
11:00-13:00	<b>OLO #8</b> <b>Chairs:</b> <i>Vladimir Hristov, Christos Koulamas</i>	<b>OLM #1</b> <b>Chairs:</b> <i>Krassimira Stoyanova, Liam Wouters</i>	<b>OLM #2</b> <b>Chairs:</b> <i>Ana M. Lazarevska, Aditya Sabbineni</i>
	<b>113)</b> Andrea Pagliaro, Giacomo Valente, Luigi Pomante and Tania Di Mascio, <i>Increasing Boot Loader Reusability in avionic certified context for AMD Zynq Ultrascale+ platforms</i>	<b>5)</b> Krassimira Stoyanova, Vladislava Grigorova and Ivan Blagoev <i>A Robust Framework for Within-Group Similarity Assessment: Addressing Hyperparameter Variability in Multiclass Medical Classifications</i>	<b>59)</b> Aditya Sabbineni, Pravin Nagare, Devendra Dahiphale, Preetam Dedu and Willison Lopes, <i>A Hardware-Anchored Privacy Middleware for PII Sharing Across Heterogeneous Embedded Consumer Devices</i>
	<b>116)</b> Vladimir Hristov and Stanislav Peev, <i>An Integrated Intelligent and Secure Diagnostic Framework for BLDC Motors</i>	<b>29)</b> Marko Bošković, Petar Mandić, Tomislav Šekara, Milan Rapaić, Đorđe Stojić and Budimir Lutovac, <i>An Optimal Design of a Four-Parameter PID controller via Prototype Pole Placement under Robustness and Measurement Noise Sensitivity Constraints</i>	<b>82)</b> Mihaela Zlateska, Ana M. Lazarevska, Marjan Nikolovski and Valentina Gecevska, <i>IoT-Enabled ESG Environmental Reporting under CSRD: Alignment with ESRS Environmental Indicators and Cost Implications</i>
	<b>117)</b> Vladimir Hristov, Stanislav Peev and Lal Goel Aman, <i>Intelligent Fault Diagnosis in Brushless DC Motors: A Comprehensive Review</i>	<b>48)</b> Blend Hamiti and Besnik Selimi, <i>Exploring Automated Techniques for Analyzing and Reversing Android Obfuscation</i>	<b>87)</b> Milica Vušanović and Veselin N. Ivanović, <i>Wiener Time-Frequency Filter based on the Recent Design of a System for Time-Frequency Analysis</i>
	<b>120)</b> Leonardo Fazzini, Giacomo Valente, Federica Caruso, Luigi Pomante and Tania Di Mascio, <i>Toward a Taxonomy of Virtualization for Microcontroller-Based Mixed-Criticality Systems</i>	<b>50)</b> Liam Wouters, Victor Pena Alvarado, Richard Van Loon, Alireza Khalilipour and Moharram Challenger, <i>Integrating Digital Twins and MAS for Scalable AGV Fleet Management in Smart Warehousing</i>	<b>58)</b> Milica Vušanović and Veselin N. Ivanović, <i>Testing of the Recent Design of a System for Time-Frequency Analysis</i>
	<b>122)</b> Lidia Pocero Fraile, Christos Koulamas and Apostolos P. Fournaris <i>A Distributed Framework for the Development of Secure, Safe and Efficient Cyber-Physical and Digital Twin Systems</i>	<b>109)</b> Avni Rustemi, Merita Kasa Halili and Festim Halili, <i>Integrating Blockchain Technology in E-Learning Platforms for Student Payments</i>	<b>FS</b>
	<b>85)</b> Erand Kurtaliqui, Mërgim Hoti and Blerim Rexha, <i>Evaluating Post-Quantum Cryptographic Readiness on Classical Systems: An End-to-End ML-KEM Implementation in .NET 9 and Angular</i>	<b>FS</b>	<b>FS</b>



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13.00-14.00	<b>Awards and conclusion remarks</b>
14:00-15:00	<b>Closing Lunch</b>
15.00	<b>Social and free Summer School and Tutorial</b>
<b>12.06 (Friday)</b>	
<b>Excursion (on your own) Summer School and Tutorials</b>	

**ZOOM Links:**

**Room 1**

<https://us06web.zoom.us/j/7621096592?pwd=bLYShG2bdnGhdZSggcc1ZR7mFFRnRl.1>

**Room 2**

<https://us06web.zoom.us/j/8342653096?pwd=5nFoe54k9ICDeQ62hanpMQa34XP0Qo.1>

**Room 3**

<https://us06web.zoom.us/j/8702896180?pwd=aAXITdnClljcaaAaJhHQgGhiFOpMmJ.1>

**Summer School**

<https://us02web.zoom.us/j/3740228367?pwd=udfBZNxwXJ4a9t8DlabpLbM2Fapoo.1>

**Address:**

Place: Akademija Znanja – Budva, 56 Žrtava Fašizma, Budva, Montenegro,  
[42.29357977916256, 18.83949295396983](https://www.google.com/maps/place/42.29357977916256,18.83949295396983), tel (in case of necessity): +38268317729

**Official organizers:**

Montenegrin Association for New Technologies (MANT)

IEEE Serbia/Montenegro Section

University of Montenegro, Faculty of Electrical Engineering

**Sub organizers and supporters:**

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## MECO 2026 – Tutorials

### SS-CPSIoT 2026

### AIoT Academy 2026

*Budva, Montenegro, Science Academy, 09-13 June, 2026*

### *Programme*

*ROOM 4 (Summer School) [ZOOM Link](#)*

Time	Session	Speakers and Topic	Topic	Institution/Country
<b>09.06</b>				
09.00-09.30	<b>Openings</b>	Within MECO opening ceremony <i>and Lech Jozwiak</i> , Establisher of the School	<i>SS-CPSIoT idea and vision</i>	University of Eindhoven, <b>Netherlands</b>
09.30-10.00	<b>Opening Break</b>			
10.00-11.00	<b>Keynote #1</b>	<i>Veljko Milutinović</i>	<i>Acceleration and Paradigming in Computing and Informatics</i>	University of Indiana in Bloomington, <b>USA</b>
11.00-13.00	<b>Tutorial #1</b>	<i>Natalie Simson, Johannes Ecker, Wolfgang Ecker, Endri Kaya</i>	<i>Systematic Digital Design – Boosting Design Productivity and Component Reuse through Handshakes and Interfaces</i>	Technical University Munich and <b>Infineon Technologies, Germany</b>
13.00-15.00	<b>Lunch Break</b>			
15.00-17.00	<b>Tutorial #2</b>	<i>Muhammad Shafique, Alberto Marchisio</i>	<i>Energy-Efficient and Secure AI: Challenges, Methods, Applications, and Systems</i>	eBRAIN Lab and iCAS Lab New York University Abu Dhabi, <b>UAE</b>
17.00-19.00	<b>Free and social Municipality reception</b>			
<b>10.06</b>				
09.00-09.45	<b>Keynote #2</b>	<i>Akbar Sheikh-Akbari</i>	<i>Advancing Non-Destructive Spectral Intelligence for Aflatoxin Risk Mitigation in Pistachio Supply Chains</i>	Leeds Beckett University, <b>United Kingdom</b>
09.45-10.30	<b>Keynote #3</b>	<i>Hans Vangheluwe</i>	<i>CPSIoT – The Twinning Paradigm</i>	University of Antwerp, <b>Belgium</b>



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10.30-11.00	Break			
11.00-13.00	<b>Tutorial #3</b>	<b>Abdelhakim Baouya, Brahim Hamid, Otmane Ait Mohamed, Saddek Bensalem</b>	<i>Secure and Resilient Engineering of Cyber-Physical Systems (CPS) via Stochastic Games</i>	University of Toulouse, <b>France</b> University of Toulouse, <b>France</b> Concordia University, <b>Canada</b> VERIMAG, <b>France</b>
13.00-14.00	Lunch Break			
14.00-15.00	<b>Tutorial #4, 1</b>	<b>Nabil Abdennaheer</b>	<i>Introduction to quantum computing from a software engineering perspective</i>	University of Applied Sciences, Western <b>Switzerland</b>
15.00-15.45	<b>Keynote #4</b>	<b>Milan Prokin</b>	(Near) Future of Vehicles	University of Belgrade, <b>Serbia</b>
16.00-17.00	<b>Tutorial #4, 2</b>	<b>Nabil Abdennaheer</b>	Introduction to quantum computing from a software engineering perspective	University of Applied Sciences, Western <b>Switzerland</b>
17.00:-	Free			
20.30	<b>Dinner</b>			
<b>11.06</b>				
09:00-10.30	<b>Tutorial #5 Dražen Jurišić</b>	Fractional-Order Systems and Applications	University of Zagreb, <b>Croatia</b>	
10.30-11.00	Break			
11.00-13.00	<b>Tutorial #6,1</b>	<b>Andrej Škraba</b>	ESP32 Hands-on: From Edge Device Control to Cloud and AI in CPS/IoT Systems	University of Maribor, <b>Slovenia</b>
13.00-14.00	<b>Ceremony and awards, MECO</b>			
14.00-15.00	Lunch Break			
15.00-16.00	<b>Tutorial #6,2</b>	<b>Andrej Škraba</b>	ESP32 Hands-on: From Edge Device Control to Cloud and AI in CPS/IoT Systems	University of Maribor, <b>Slovenia</b>
16.00-17:00	<b>Tutorial #7</b>	<b>Matija Stojanović</b>	Ethical Issues in AI and AIoT	University of Montenegro, <b>Montenegro</b>
17.00:-	<b>Free</b>			
<b>12.06</b>				
09-10.30	<b>Tutorial #8</b>	<b>Vladimir Mladenović</b>	Cyber Security and Federated Learning for Autonomous Vehicle Networks	University of Kragujevac, <b>Serbia</b>
10.30-11.00	Break			



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11.00-12.00	<b>Tutorial #9</b>	<b>Radovan Stojanović, Jovan Djurković</b>	AIoT in medical wearables	University of Montenegro, MANT, MECOnet, Digit, <b>Montenegro</b>
13.00-14.00	<b>Lunch Break</b>			
14.00-15.00	<b>Tutorial #10</b>	<b>Vesna Maraš, Mitar Otašević, Jovan Djurković, Dejan Zejak</b>	AIoT in precise agriculture	University of Montenegro, MANT, MECOnet, <b>Montenegro</b>
15.00-16.00	<b>Tutorial #11</b>	<b>Vuk Vučeraković, Jasna Zeković</b>	PRONA mission in new technologies	PRONA Foundation
16:00	<b>Certification and closing</b>			
<b>13.06</b>				
<b>Team work (Excursion on your own)</b>				



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<https://mecoconference.me/ss-cpsiot2026/#aboutsscpsiot>

**Official organizers:**

Montenegrin Association for New Technologies (MANT)

PRONA Foundation

Government of Montenegro, Ministry of education, science and innovation Project AIoT Academy, <https://mant.me/aiot-academy/>  
University of Montenegro, Faculty of Electrical Engineering



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