

PROGRAMME

MECO'2023 & CPSIoT'2023

General Schedule

Budva, Montenegro, 06-10 June 2023, Hotel Budva, Montenegro

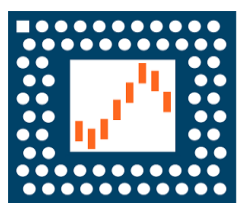
TIME/DAY-ROOM	TUES - ROOM1	TUES-ROOM2	TUES-ROOM3	WED- ROOM1	WED-ROOM2	WED-ROOM3	THURS- ROOM1	THURS-ROOM2	THURS-ROOM3
09_00	SESSION0 (Opening)			SESSION2(Keynotes2)			SESSION3(Keynotes3)		
09_30	SESSION1(Keynotes1)								
10_30					BREAK				
11_00	SESSION4	SESSION7	SESSION10	SESSION13	SESSION16	SESSION19	SESSION22(PROJECTS)	SESSION23(WIP)	SESSION24(Companies)
13_00					LUNCH				
15_00	SESSION5	SESSION8	SESSION11	SESSION14	SESSION17	SESSION20	SESSION23	SESSION26	SESSION29
17_00					BREAK				
17_30	SESSION6	SESSION9	SESSION12	SESSION15	SESSION18	SESSION21	SESSION24(Closing)		
20_30		SOCIAL LIFE			SOCIAL LIFE			SOCIAL LIFE and DEPARTURES	
25.5.2023									
LEGEND:	TUES=TUESDAY	6.jun.23	Free slot						
	WED=WEDNESDAY	7.jun.23	Busy slot, ON-LINE						
	THURS=THURSDAY	8.jun.23	Busy slot, IN-VENUE						

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Detailed Schedule

TUES: 06.06.2023

	THUES-ROOM1	ZOOM LINK TO THUES-ROOM1 (Will be inserted)							
SESSION0 (Opening)	TUES - ROOM1-09-00	Officials, Chairs, Guests							
SESSION1 (Keynote1)	TUES - ROOM1-09-30 CHAIR: Lech Jozwiak	Dr. Andreas Burger, Distributed Systems, BOSCH Corporate Research, Robert Bosch GmbH,							
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SESSION4	TUES - ROOM1-11-00 Chairs: Wilson Daubry and Konrad Moron	10, Po-Hsuan Chou, Chih-Shuo Mei and Chao Wang, Applicability of Deep Learning Model Trainings on Embedded GPU Devices: An Empirical Study	17, Wilson Daubry, Jean-Michel Dricot and Pierre Henneaux, Decentralized group authentication with membership verification in islanded smart grids	26, Pavlo Mykytyn, Marcin Brzozowski, Zoya Dyka and Peter Langendoerfer, GPS-Spoofing Attack Detection Mechanism for UAV Swarms	31, Konrad Moron and Stefan Wallentowitz, Support for Just-in-Time Compilation of WebAssembly for Embedded Systems	70, Matthias Dziubany, Anke Schmeink and Guido Dartmann, Energy-efficient Cyber Physical Social System for Transportation with Appointments	131, Mohamed Ahmed M. Hail, Efficient Management, Control and Analysis of IoT-NDN Devices through "NDN4IoT" App Integrated with FIWARE	74 Miroslav Skrbek, Pavel Kubalik, Martin Kohlik, Jaroslav Borecký and Robert Hülle, Evaluation of the Medium-sized Neural Network using Approximate	
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SESSION6	TUES - ROOM1-17-30 Chairs: Sanja Bauk and Alexandros Spournias	49, Alexandros Spournias, Evanthis Fallagka, Theodoros Skandamis, Christos Antonopoulos, Nikolaos Voros and Georgios Keramidas Gestures detection and device control in AAL environments using machine learning and BLEs	66, Ercan Canhasi and Dhurate Hyseni, A Development of a Prototype COVID-19 Swab Sampling using Educational 4-axis Robotic Arm	84, Sanja Bauk and Lindani Handsome Ntshangase, Maritime Blockchain Constraints' Analysis by ISM and MICMAC Techniques	108 Mira Šorović, Nexhat Kapidani, Žarko Lukšić, Toni Maričević, Šime Marušić, Vlado Frančić, David Brčić, Zorica Đurović and Marko Strabić, Towards the Introduction of the Sea Traffic Management System in the Adriatic Sea	129 Anatoli Alop, Fully Autonomous Ship - Will AI Make "Machine Errors" or Are They Human Errors in a New Form?	137 Radovan Stojanović, Jovan Djurković, Slaviša Mijušković, Budimir Lutovac and Anđel Škraba, SYNTROFOS: A Wearable Device for Vital Sign Monitoring, Hardware and Signal Processing Aspects	6, Sanja Bauk, Radoje Radulovic, Physical Computing in a Freight Container Tracking: An Experiment	20, Omid Jafari, Stanislav Kolosov, Nhan Vo, Asmita Thapa Magar, Jukka Heikkonen and Rajeev Kanth, Intelligent Traffic Light Solution for Green and Sustainable Smart City
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SESSION8	TUES - ROOM2-15-00 Chairs: Milan Stork and Gerhard Dueck	75, Ehlmana Krupalija, Emir Cogo, Seila Bećirović, Irfan Prazina, Damir Pozderac and Ingmar Bešić, CEGSet: Collection of standardized cause-effect graph specifications	90, Matthias Stammer, Matthias Hamann and Jürgen Becker, Multilevel Security Model for Secure Information Flow inside Software Components employing Automated Code Generation	11, Siri Sahithi Ponangi, Gerhard Dueck, Kenneth Kent, Daryl Maier and Kazuhiro Konno, Java Runtime Optimization for Copying Arrays on AArch64	18, Milan Stork, Software Implementation of a Simple All-Digital Frequency Synthesizer	29, Tudor Barbu, Spectral Vector-valued Image Restoration using a Hyperbolic Partial Differential Equation-based Filter	92, Ema Vasileška, Valentina Gecevska and Orđan Cukaliev, Crop yield forecasting based on climate data using Principal Component Analysis and Machine Learning techniques	76, Suzana Djordjevic, Danijela Milosevic, Katarina Mitrovic, Mirjana Kostic, Mirjana Cvetkovic and Vladimir Mladenovic, Prediction of Overhydration in the Process of Pediatric Hemodialysis using Artificial Neural Network	
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WED: 07.06.2023.

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SESSION2 (Keynote2)	WED-ROOM1-09:00 CHAIR: Lech Jozwiak	Prof. Dr.-Ing. Dr. h. c. Jürgen Becker, Head of Institute, Karlsruhe Institute of Technology – KIT, Karlsruhe, Germany							
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SESSION20	WED-ROOM3-15:00 CHAIRS: Alla Levina and Dmitrii Kaplun	86, Alla Levina, Efim Ashmarov and Andrew Plotnikov, New Method of Hash Functions Analysis	94, Alla Levina and Nikita Panchenko, OPTIMIZED COMPRESSION ALGORITHM BASED ON BINARY ANALYSIS OF INDEPENDENT COMPONENTS	47, Dmitrii Kaplun, Alexander Voznesensky, Alisa Sufelva and Vyacheslav Gulvanskii, Mesh denoising in prosthetics manufacturing applications using average filtering, linear heat diffusion and bilateral filtering	97, Natalia Kopylova, Technological Approach in University Educational Activity	8, Nataly Zhukova and Alexey Subbotin, Using Applied Computing on Embedded Computers to Build Digital Twins in a Fog Computing Environment	43, Tatiana Osipova, Alexander Baranov and Ivan Ivanov, Processing Data from Catalytic Sensors for Recognition of Hydrogen in Mixtures of Combustible Gases	62, Olga Druzhina, Oleg Isakov, Artur Karimov, Georgii Kolev and Timur Karimov, Inductive Limit Switch Based on Chaotic Circuit with Double-Scroll Attractor	65, Denis Spirjakin, Alexander Baranov, Ivan Ivanov, Hossein Karami and Gevorg B. Gharehpetian, Gases and mixtures explosiveness estimation using a model trained by limited sets of gases
		93, Eugene Beliakin, Maria Markelova and Mikhail Bogachev, Forecasting of traffic variations from their preceding dynamics: Parametric vs non-parametric approaches	100, Alexey Sotnikov, Tamara Kim and Ivan Rozanov, A generalized multidimensional signal simulation model in an active locator receiver	106, Dmitriy Kvitko, Ivan Babkin, Kirill Shirnin, Timur Karimov, Georgii Kolev and Vyacheslav Rybin, Chaos Shift Keying Coherent Communication Based on Different Types of Operational Amplifiers	110, Maxim Grachev, Yury Parshin and Alexander Parshin, Efficiency of Information Transfer in the System of Interacting IoT Objects with Optimal Spatial Structure	122, Alexander Gruzlikov, Minimizing the Total Completion Time of Jobs for a Permutation Flow-Shop System	59, Vladimir Volkov, Investigation of characteristics of sparse antenna systems		
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SESSION21	WED-ROOM3-17:30 CHAIR: TBA								

THURS: 08.06.2023.

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SESSION3 (Keynote3)	THURS-ROOM1-09:00 CHAIR: Betim Cico	Prof. dr Naim Dahnoun, Department of Electrical & Electronic Engineering, University of Bristol, United Kingdom							
BREAK	10:30								
SESSION22	THURS-ROOM1-11:00	EUREKA Administration for Maritime Safety and Port Management, Montenegro	RESPOND-A Administration for Maritime Safety and Port Management, Montenegro	ePI-Center Administration for Maritime Safety and Port Management, Montenegro	SMART4ALL MECONet and Consortium	VIRAL MANT and Consortium	PELMOB University of Montenegro and Consortium		
	THURS-ROOM2&3								
SESSION23	THURS-ROOM2-11:00	Works in Progress and Round Table							
SESSION24	THURS-ROOM3-11:00	Companies, Institutions, Books, Presentations							
LUNCH	13:00								
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