2022 23rd International CARPATHIAN CONTROL CONFERENCE (ICCC)

Technical Program for Monday May 30, 2022

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9:30 - 10:00	Vintual Dagge 4
Opening Ceremony Chair: Dan Panagari	Virtual Room 1
Chair: Dan Popescu Co-Chairs: József Vásárhelyi	University of Craiova University of Miskolc
Renata Wagnerová	Technical University of Ostrava
Agata Nawrocka	AGH- University of Science and Technology, Krakow
Marek Laciak	Technical University of Kosice
IVIAIEN LACIAN	rediffical offiversity of Rosice
10:00 - 11:00	
Plenary Lecture 1	Virtual Room 1
Chair: Vladimir Răsvan	University of Craiova
Does it exist a general structure for adaptation/learning algorithms?	CNDC (National Contentos Coinstific Decemb)
Ioan Dore LANDAU	CNRS (National Center for Scientific Research)
11:30 - 13:30 Session 1A	Virtual Room 1
Intelligent Embedded Systems, Instrumentation, and Internet of Things (I	
Chair: Tomas Skovranek	Technical University of Kosice
Co-Chair: Liana Stănescu	University of Craiova
11:30 - 11:50	
Edge computing implementation of safety monitoring system in fram	e of IIoT
Martin Muzelak	Technical University of Kosice
Tomas Skovranek	Technical University of Kosice
11:50 - 12:10	
Machine Learning System for Automated Testing	
Cosmin Stoica	University of Craiova
Liana Stănescu	University of Craiova
Roxana Marinescu	University of Craiova
12:10 - 12:30	
Optimizations of Database Management Systems for Real Time IoT E	dge Applications
Valentin Pupezescu	University Politehnica of Bucharest
Marilena-Cătălina Pupezescu	University Politehnica of Bucharest
Lucian-Andrei Perișoară	University Politehnica of Bucharest
12:30 - 12:50	
Embedded Control System for an Aircraft High-bypass Turbofan with	
Alexandru-Nicolae Tudosie	University of Craiova
12:50 - 13:10	
Analysis of Mobile Communications Services for Internet of Things in	Romania
Lucian-Andrei Perișoară	University Politehnica of Bucharest
Cosmin Dănișor	University Politehnica of Bucharest
Dragoş-Ioan Săcăleanu	University Politehnica of Bucharest
13:10 - 13:30	
Optimize Critical Data Pattern Detection in Systems with Real Time D	Decisions Decisions
Catalin Constantin Cerbulescu	University of Craiova
Marius Marian	University of Craiova
Eugen Ganea	University of Craiova
Claudia Monica Cerbulescu	University of Craiova
11:30 - 13:30 Session 1B	Virtual Room 2
Identification, Modeling, Simulation of Processes and Systems 1	
Chair: Paolo Di Giamberardino	Sapienza University of Rome
Co-Chair: Costin Bădică	University of Craiova

14.20 14.50	
11:30 - 11:50 Development of a Didactic Graphical Simulation Interface on MATLAB for	for Systems Control
Luíza Cerqueira Trindade	CEFET-M
Paloma Greiciana Souza Dias	CEFET-M
Vinícius Ferreira Silva Bianchi Grilo	CEFET-M
Ferreira Murillo Santos	CEFET-M
Paolo Mercorelli	Leuphana University of Lunebu
11:50 - 12:10	
Some Considerations on Conceptual Modelling for a Laboratory Informa	ation Management System
Dragoș Iliescu	University Politehnica of Buchare
12:10 - 12:30	
A State Dependent Switching Optimal Cntrol as a Formalization of Polit	tical Interventions
Paolo Di Giamberardino	Sapienza University of Ron
Daniela Iacoviello	Sapienza University of Ron
12:30 - 12:50	
Application of statistical methods in improving the quality of bogie fran	
Marcela Pavlickova	Technical University of Kosi
Marek Laciak	Technical University of Kosi
12:50 - 13:10	
The Model of Regularization Coefficient in Polynomial Regression for Mo	
Alexandra Vultureanu-Albişi Costin Bădică	University of Craio
	University of Craio
13:10 - 13:30	
Effect of intrinsic elasticity and damping coefficients variations on balar	
Andrzej Kot Agata Nawrocka	AGH- University of Science and Technology, Krako AGH- University of Science and Technology, Krako
11:30 - 13:30 Session 1C Industry 4.0	Virtual Room
Chair: Balázs Scherer	Budapest University of Technology and Economic
Co-Chair: Marius Marian	University of Craio
11:30 - 11:50	
Real-time processing of signals using parallel development technology	Heliconite of Oction
Bogdan Popa	University of Craio
Ion-Marian Popescu Dorin Şendrescu	University of Craio University of Craio
Alexandra-Elisabeta Lorincz	University of Craio
11:50 - 12:10	
Remote or Virtual Laboratory for HIL (Hardware-In-the-Loop) Testing E	Education
Balázs Scherer	Budapest University of Technology and Economi
12:10 - 12:30	
Using NLP to analyze requirements for Agriculture 4.0 applications	
Jakub Jura	Czech Technical University in Pragr
Matouš Cejnek	Czech Technical University in Prago
Pavel Trnka	Czech Technical University in Pragu
12:30 - 12:50	
Distributed Measurement System for Performance Evaluation of Embed	Idded Clock Synchronization Solutions
András Wiesner	Budapest University of Technology and Economi
Tamás Kovácsházy	Budapest University of Technology and Economi
12:50 - 13:10	
Analysis of SaaS Architectures from a Trust Service Provider Perspectiv	
Marius Marian	University of Craio
Eugen Ganea	University of Craio
Dan Popescu	University of Craio
Florin Stîngă	University of Craio
Adelin Cusman	Centrul de Calcul S.A., Roman

13:10 - 13:30

Improvement Trends in the Development of Permanent Magnet Synchronous Machines for Automotive Applications

Lorand Szabo Technical University of Cluj-Napoca Iulia Văscan Technical University of Cluj-Napoca

Evolving Fuzzy Models and Laboratory Applications

Radu-Emil **PRECUP** Politehnica University Timişoara

Automation, Mechatronics, Robotics	
Chair: Paolo Mercorelli	Leuphana University of Lueneburg
Co-Chair: Janusz Goldasz	Cracow University of Technology
16:00 - 16:20	
Using Control Web System for Precise Positioning by Piezo-Motors	
Michal Tomeš	VSB – Technical University of Ostrava
Marek Babiuch	VSB – Technical University of Ostrava
Jaromír Škuta	VSB – Technical University of Ostrava
16:20 - 16:40	
Differential Steering System for Vehicular Yaw Tracking Motion with Help of Sliding	g Mode Control
Oliver Kruse	Leuphana University of Lueneburg
Aidana Mukhamejanova	University of Debrecen
Paolo Mercorelli	Leuphana University of Lueneburg
16:40 - 17:00	
Model Predictive Control for Autonomous Quad- rotor Trajectory Tracking	
Rabab Benotsmane	University of Miskolc
Ahmad Reda	University of Miskolc
József Vásárhelyi	University of Miskolc
17:00 - 17:20	
Robotic Plug-in of CCS Type 2 Connector	
Josef Cernohorsky	Technical University of Liberec
Lukáš Krčmář	Technical University of Liberec
Pavel Jandura	Technical University of Liberec
17:20 - 17:40	
Advances in the control schemes for MR actuators	
Gabriel Mendes	Polytechnic Institute of Bragança
Janusz Goldasz	Cracow University of Technology
17:40 - 18:00	
Application of motion control in rehabilitation devices	
Josef Cernohorsky	Technical University of Liberec
Martin Diblik	Technical University of Liberec
Aleš Richter	Technical University of Liberec
18:00 - 18:20	
Fluxgate Magnetometer System for Underwater Exploration	
Mate Koba	University of Miskolc
Richard Zoltan Papp	University of Miskolc
Norbert Zajzon	University of Miskolc
Laszlo Vincze	Geoelektro Kft Nagykovacsi

16:00 – 18:00 Session 2B Virtual Room 2 Identification, Modeling, Simulation of Processes and Systems 2

Chair: Marek LaciakTechnical University of KosiceCo-Chair: Marek KvetUniversity of Žilina

16:00 - 16:20	
Sewer Network Model of a City with a Medium-Sized Population	
Iulian Vasiliev	Dunarea de Jos University of Galat
Laurentiu Luca	Dunarea de Jos University of Galat
Marian Barbu	Dunarea de Jos University of Galat
Ramon Vilanova	Autonomous University of Barcelona
Sergiu Caraman	Dunarea de Jos University of Galat
16:20 - 16:40	
Photovoltaic Fed Grid-tie Inverter Design and Simulation	Heliconstruct (Affel el
Rafael Ruben Boros	University of Miskolo
István Bodnár	University of Miskolo
16:40 - 17:00	
Mathematical Model of a High-bypass Turbofan with Coolant Fluid Inje	
Alexandru-Nicolae Tudosie	University of Craiova
17:00 - 17:20	
Adapted Path-relinking Based Search for Non-dominated Set of Medic	- , ,
Marek Kvet	University of Žilina
Jaroslav Janacek	University of Žilina
17:20 - 17:40	
The Analysis of the Influence of Input Parameters on the Accuracy of	Temperature Model in the Steelmaking Process
Marek Laciak	Technical University of Kosice
Patrik Flegner	Technical University of Kosice
Ján Kačur	Technical University of Kosice
Milan Durdán	Technical University of Kosice
Marcela Pavlíčková	Technical University of Kosice
Marcola Fathoreta	
Ján Terpák	Technical University of Kosice
	Technical University of Kosice
Ján Terpák 17:40 - 18:00 Zonotope Order Reduction in Robust Estimation Carlos Eduardo Valero	Slovak University of Technology in Bratislava
Ján Terpák 17:40 - 18:00 Zonotope Order Reduction in Robust Estimation Carlos Eduardo Valero Paulen Radoslav	Slovak University of Technology in Bratislava Slovak University of Technology in Bratislava
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Transilvania University of Braso
University of Craiova
Art and Design University Cluj-Napoca
Transilvania University of Braso
Joan Monata National Callage Brace
Ioan Mesota National College, Braso