

		11.06.2019			
From	Due	Tuesday			
18:00	21:00	Registration & Welcome Reception Convento di Sant'Agostino, the Contemporary Art Museum of Caserta, via Mazzini, 16			
		12.06.2019			
From	Due	Wednesday			
09:00	09:30	Registration & Welcome Ceremony			
09:30	10:30	Keynote 1			
		Alexander H. Levis (George Mason University)			
		Modeling and Simulation of Organizational Architectures			
		Chair: Mauro Iacono			
10:30	11:00	Coffee break			
11:00	12:30	Parallel Sessions (90 min 3 Papers)			
		A	B	C	DIS
		SIMO	FES	DIS	
		Chair: Frank Hermann	Chair: Agnes Vivovics-Dancs	Chair: Agnieszka Jakobik	
5	22	23	Puntipa Wanitjirattikal		
Thananya Wasusri, Issara Ruangngam		Oksana Shubat, Anna Bagirova		Comparing the Equivalence Testing with Using Two One-Sided Test, Square Root of F Distribution and 2-df for Shift-Scale-Equivalence Testing	
Aggregate planning using mixed integer programming: a fruit juice concentrated factory case study		Dynamics Modelling and the Study of Birth Rate Determinants in Russian Regions		Filip Kružel	
26	44	49	Erzsébet Teréz Varga		
Stefan Haag, Carlo Simon		Decreasing Progressive Tax Rates with Basic Income: the Golden Mean?		Vectorized Implementation Of The FEM Numerical Integration Algorithm On A Modern CPU	
Simulation of horizontal and vertical integration in digital twins		Ágnes Vaskövi, Erzsébet Kovács		Grazyna Suchacka	
38	54	77	LIVING LONGER. WORKING LONGER? - Life Expectancy and Retirement Age Trends in OECD Countries		
Marco Trost, Robert Forstner, Thorsten Claus, Frank Herrmann, Ingo Frank, Hajo Terbrack		Improving clustering of Web bot and human sessions by applying Principal Component Analysis		Sustainable Production Planning And Control: A Systematic Literature Review	
		Lunch			
12:30	13:30	Parallel Sessions (90 min 3 Papers)			
13:30	15:00	Parallel Sessions (90 min 3 Papers)			
		A	B	C	DIS
		SIMO	FES	DIS	
		Chair: Frank Hermann	Chair: Agnes Vivovics-Dancs	Chair: Agnieszka Jakobik	
6	25	29	Francesco Leofante, Stefan Schupp, Erika Abraham, Armando Tacchella		
Tuangyot Supeekit, Tuanjai Somboonwiwat		Anna Bagirova, Oksana Shubat		Engineering Controllers for Swarm Robotics via Reachability Analysis in Hybrid Systems	
Strategic Procurement Process for Multiple Items in a Supply Chain		A study of regional differentiation of the fertility resources based on convergence models		Jacek Tchórzewski, Daniel Grzonka, Agnieszka Jakobik	
32	48	50	Vidovics-Dancs Agnes, Janos Szaz, Andras Oliver Nemeth, Márta Fekete		
Chengdong Yuan, Gunasheela Sadashivaiah, Evgenii Rudnyi, Tamara Bechtold		Simulating Bankruptcy – The Effects of Bailouts		Towards ANN-based Scalable Hashing Algorithm for Secure Task Processing in Computational Clouds	
Efficient Design Optimization of a Thermoelectric Generator by a Combination of Model Order Reduction and Thermal Submodeling Techniques		Vidovics-Dancs Agnes, Péter Juhász, Gábor Hajnal, Nora Felföldi-Szucs		Lelio Campanile, Marco Gribaudo, Mauro Iacono, Michele Mastroianni	
39	55	79	How to improve your sovereign rating? – A case study on Hungary		
Marco Trost, Thorsten Claus, Frank Herrmann		Performance Modeling and Analysis of an Autonomic Router		Adapted Master Production Scheduling: Potential For Improving Human Working Conditions	
		Coffee break			
15:00	15:30	Parallel Sessions (120 min 4 Papers)			
15:30	17:30	Parallel Sessions (120 min 4 Papers)			
		A	B	C	DIS + PSTAT
		SIMO	FES	DIS + PSTAT	
		Chair: Frank Hermann	Chair: Agnes Vivovics-Dancs	Chair: Rostislav Razumchik	
7	14	9	Alexander H. Levis		
Maximilian Selmair, Alexander Swinarew, Klaus-Jürgen Meier, Yi Wang		Eszter Boros		On Narrative Modeling and Assessment for Strategic Change	
Solving non-quadratic Matrices in Assignment Problems with an improved Version of Vogel's Approximation Method		A Fair Solution or Pure Theory: Price Adjustment in the EMU		Gianpaolo Branca, Marco Gribaudo	
8	30	61	Kata Varadi, Melinda Friesz, Kira Muratov-Szabó, Andrea Prebuk, Ferenc Illés		
Mike Steglich		Together forever or separated for life: Stress tests of central counterparties in case of merged and separated default funds		Reducing sickness and enhancing virtual reality simulation on mobile devices by tracking the body rotation	
A hybrid heuristic based on self-organising maps and binary linear programming techniques for the capacitated p-median problem		Kádár Csaba		Rostislav Razumchik, Mikhail Kononov	
13	51	19	Is the effect of current rules of international accounting and prudential tools make the bank reserving pro-cyclical? – Modelling of impairment under IFRS 9 and countercyclical capital buffer		
Montra Wongmayura, Thananya Wasusri		Vessel Route Optimization for Offshore Marine Transport		Minimizing mean response time in non-observable distributed systems with processor sharing nodes	
Vessel Route Optimization for Offshore Marine Transport		Ildikó Gelányi, Janos Szaz, Péter Juhász		Yurii Orlov, Alexey Kisilitsyn	
47	56	68	Delivery risk in a supply chain with a dominating member: modeling the effect of the inventory policy		
Fang He, Thierry Chausaulet, Rong Qu		Nonstationary stochastic motion modeling by dynamical systems		Modelling the home health care nurse scheduling problem for the patients with long-term conditions in the UK	
17:45	19:30	Royal Palace tour (1:30 h) Meeting in front of the Palace at 17:45			

		13.06.2019						
From	Due	Thursday						
08:30	12:30	Registration						
09:00	10:00	Keynote 2						
		Andrea Bobbio (Università degli Studi del Piemonte Orientale)						
		Modeling Dependencies In Complex System Dependability						
		Chair: Marco Gribaudo						
10:00	10:30	Coffee break						
10:30	12:30	Parallel Sessions (120 min 4 Papers)						
		A	SIMO	B	MCT	C	PSTAT	D
		Chair: Frank Hermann		Chair: Jiri Vojtesek		Chair: Rostislav Razumchik		
		37	Benjamin Hoffmann, Michael Guckert , Neil Urquhart, Kevin Chalmers	10	Georgi Kostov, Vesela Shopska , Rositsa Denkova-Kostova , Bogdan Goranov	18	Alexander Grusho, Nick Grusho, Michael Zabezhalo, Elena Timonina	
			Simulating Dynamic Vehicle Routing Problems with Athos		Analytical approaches to determine the specific biomass growth rate in brewing		Protection of Valuable Information in Public Information Space	
		52	Pawel Piskur, Krzysztof Just , Mariusz Zokowski	28	Ekaterina Rostova, Nikolay Rostov, Vladislav Sobolevsky, Valerii Zakharov	66	Kirill Ageev, Eduard Sopin, Konstantin Samouylov	
			Dynamic simulation of the tubular linear actuator with permanent magnets		Design and Simulation of Biotechnical Multidimensional Motion Control Systems of a Robot Manipulator		Approximate Analysis Of The Limited Resources Queuing System With Signals	
		70	Pasquale Manco, Marcello Fera, Roberto Macchiaroli, Mario Caterino	65	Jakub Husár, Jiří Pecha, Lubomír Šánek, Karel Kolomazník	74	Dmitry Kulyabov, Anna Korolkova, Tatyana Velieva, Ivan Zaryadov	
			Simulation Techniques Prioritization for the Additive Manufacturing Integration in Traditional Production Contexts		Modelling and simulation of an triglyceride alcoholysis reaction		Essay on the study of the self-oscillating regime in the control system	
		75	Michał Przybylski	71	Walid Ibrahim, Hoda Amer			
			Mathematical model of biomimetic underwater vehicles		An Electronic Design Automation Tool for Efficiently Improving the Reliability of Nano-Circuits			
12:30	13:30	Lunch						
13:30	15:30	Parallel Sessions (120 min 4 Papers)						
		A	MCT	B	FDEM	C	DSM + SIMO	Meeting room
		Chair: Jiri Vojtesek		Chair: Rádics / Zwierczyk		Chair: Frederic Stahl		
		17	Vladimir Bobal, Marek Kubalcik, Petr Chalupa	35	Luigi Solazzi, Federico Ceresoli, Michele Cima	63	Giovanna Martinez-Arellano, Svetan Ratchev	
			Use of MATLAB/SIMULINK enviroment for identification of real system: Case study		Structural analysis on lightweigth excavator arms		Towards an Active Learning Approach To Tool Condition Monitoring With Bayesian Deep Learning	
		43	Ana Pereira, Ana Crespo, Ana Fernandes, Inês Aranha, Margarida Figueiredo, Jorge Ribeiro, Humberto Chaves, José Neves, Henrique Vicente	72	Daria Wotzka	73	Marwan Hassani	
			Wine Quality Assessment under the Eindhoven Classification Method		Numerical model and simulation of streaming electrification in a modified Couette system		Concept Drift Detection of Event Streams Using an Adaptive Window	Board Meeting of ECMS
		67	Lubos Spacek, Jiri Vojtesek	82	Gyula Szabó, Károly Váradi	76	Kanogkan Leerojanaprapa, Komn Bhundarak, Kittiwat Sirikasemsuk	14:00-15:00
			Implementation of 7 DoF robotic system for fast unstable processes		FE simulation of a cord-rubber composite tube subjected to bending due to operational loads on a railroad reverse curve with extremely low curve radius at sub-zero temperature		Industry Cluster Using Cluster Analysis to Support Industry Cluster Policy of Thailand	
		80	Linás Petkevičius, Romas Baronas	53	Márk Zsolt Vajda, Zsófia Oláh, Ákos Orosz	SIMO 62	#NV	
			Modeling and simulation of porous multi layer microbioreactors		Evaluating the stress field on sweep during tillage process applying coupled finite-discrete element method		#NV	
15:30	16:00	Coffee break						
17:30	23:00	Visit to Anfiteatro. Meeting at 17:30. Bus departs from the left-hand side of the Royal Palca, opposite to the conference venue. Conference dinner (Amico Bio Spartacus)						

		14.06.2019					
From	Due	Friday					
08:30	12:00	Registration					
09:00	09:45	Keynote 3					
		General Francesco Vestito (Comando Interforze per le Operazioni Cibernetiche - CIOC)					
		TBA					
		Chair: Francesco Palmieri					
09:45	10:45	Parallel Sessions (60 min 2 Papers)					
		A FDEM		B IS		C	
		Chair: Rádics / Zwierczyk		Chair: Zuzana Kominkova			
		81	Tamas Mate, Peter T. Zwierczyk	40	Christoph Tholen, Lars Nolle, Tarek El-Mihoub, Jan Dierks, Alexandra Burger, Oliver Zielinski		
			Finite element analysis of crack propagation in railway wheels		Automated tuning of a cellular automata using parallel asynchronous particle swarm optimisation		
		83	Ákos Orosz, Kornél Tamás, János P. Rádics, Miklós Gálos	78	Anezka Kazikova, Zuzana Kominkova Oplatkova, Michal Pluhacek, Roman Senkerik		
			Studying the behaviour of crushed stone railway ballast subjected to periodic load		Border Strategies of the Bison Algorithm		
10:45	11:15	Coffee break					
11:15	12:45	Parallel Sessions (90 min 3 Papers)					
		A MCT		B IS		C IBTS	
		Chair: Jiri Vojtesek		Chair: Zuzana Kominkova		Chair: Romeo Bandinelli	
		12	Marek Kubalcik, Tomas Barot	34	Icaro Fonseca , Henrique Gaspar	11	Thomas Lienert, Ludwig Stigler, Johannes Fottner
			Testing Hypotheses Used in Analysis of Control Quality		A Prime on web-based simulation		Failure-handling strategies for mobile robots in automated warehouses
		36	Tim Broenink, Jan Broenink	41	Tarek El-Mihoub, Christoph Tholen, Lars Nolle	24	Eduardo Santana, Gustavo Covas, Fabio Kon
			Rapid development of embedded control software using variable-detail modelling and model-to-code transformation		Informed Search Patterns for Alleviating the Impact of the Localisation Problem		Evaluating Exclusive Lanes for Autonomous Vehicle Platoons
		69	Jiri Vojtesek, Lubos Spacek	84	Lars Nolle, Jens Werner	64	Mario Caterino, Francesco Caputo, Alessandro De Luca, Marcello Fera, Alessandro Greco, Giuseppe Lamanna, Roberto Macchiaroli, Pasquale Manco, Mario Manzo, Donato Perfetto
			Modeling, Simulation and PID Control of Water Tank Model Using Matlab and Simulink		Investigation into the Behaviour of an Asynchronous Population Based Hill Climbing Algorithm		Product and process integrated design to enhance smart manufacturing systems
12:30	13:00	Best Paper Award and Closing Ceremony					
13:00	14:00	Lunch					



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