

FINAL PROGRAM

Tuesday - 23rd May 2017

17:00-20:00 Welcome party & registration CUB - Aula (ground floor)

Wednesday - 24th May 2017

8:00-16:00 registration CUB - Aula (ground floor)

9:00-9:30 Welcome ceremony CUB - III Lecture room (ground floor)

9:30-10:30 Invited talk CUB - III Lecture room (ground floor)

István P. Székely: Economic Modeling And Economic Policy Surveillance In Europe

10:30-11:00 Coffee break CUB - Aula (ground floor)

11:00-13:00 Parallel sessions

CUB - 326		CUB - 328		CUB - 334		CUB - 336				
Chair - Barbara Dömötör		Chair - Alessandra Orsoni		Chair - Jiri Vojtesek		Chair - Mauro Iacono & Daniel Grzonka				
	Simulation Models Of Two Duopoly Games	FES 6	No More Deadlocks – Applying The Time Window Routing Method To Shuttle Systems Thomas Lienert, Johannes Fottner	IBTS 9	Simulation Study Of 1DOF Hybrid Adaptive Control Applied On Isothermal Continuous Stirred Tank Reactor Jiri Vojtesek, Lubos Spacek, Petr Dostal	MCT 101	Computer Intensive Vs. Heuristic Methods In Automated Design Of Elevator Systems Armando Tacchella, Leopoldo Annunziata, Marco Menapace	DIS 11		
	Determination Of Factors Influencing The Decision On Purchasing Organic Food	FES 7	The Worker Allocation Planning Of A Medical Device Distribution Center Using Simulation Modelling Walailak Atthirawong	IBTS 17	Predictive Control Of Two-Input Two-Output System With Non-Minimum Phase Marek Kubalcik, Vladimir Bobal, Tomas Barot	MCT 14	Improving Message Delivery In Vehicular Ad-Hoc Networks Nnamdi Anyameluor, Evtim Peytchev, Javad Akhlaghinia	DIS 58		
	Factors Associated With Thai Exporter's Interest In Using New Dawei Deep Seaport	FES 102	Simulation Of A Queueing Model Useful In Crowdsourcing Kongkan Leerojanaprapa, Kittiwat Sirikasemsuk, Korn Bhundarak	IBTS 38	Verification Of Robust Properties Of Digital Control Closed- Loop Systems Srinivas R. Chakravarthy, Serife Ozkar	MCT 18	Supporting Pension Pre-Calculation With Dynamic Microsimulation Technologies David Burka, Laszlo Mohacsi, Jozsef Csicszman, Benjamin Soos	DIS 60		
	Enhancing Model Interchangeability For Powerflow Studies: An Example Of A New Hungarian Network Model In Powerfactory And eSimov	FES 118	3D Simulation Modeling Of Apron Operation In A Container Terminal Balint Hartmann, Hueseyin K. Cakmak, Uwe G. Kuehnappel, Veit Hagenmeyer	IBTS 44	Biometric Identification Of Persons Milan Adamek, Petr Neumann, Dora Lapkova, Martin Pospisilik, Miroslav Matyssek	MCT 112	Security Supportive Energy Aware Scheduling and Scaling for Cloud Environments Agnieszka Jakobik, Daniel Grzonka, Joanna Kolodziej	DIS 110		
	Extension Of Bank Application Scoring Model With Big Data Analysis	DIS 53	Laszlo Madar							

13:00-14:00 Lunch break CUB - Aula (ground floor)

14:00-16:00 Parallel sessions

CUB - 326		CUB - 328		CUB - 334		CUB - 336				
Chair - Barbara Dömötör		Chair - Alessandra Orsoni		Chair - Jiri Vojtesek		Chair - Agnieszka Krok				
	Lifetime Probability Of Default Modeling For Hungarian Corporate Debt Instruments	FES 10	Container Terminals Capacity Evaluation Considering Port Service Level Based On Simulation Ningning Li, Jingjing Yu, Guolei Tang, Da Li, Yong Zhang	IBTS 45	Optimal Control With Disturbance Estimation Frantisek Dusek, Daniel Honc, Rahul Sharma K.	MCT 42	Data Fusion In Cloud Computing: Big Data Approach Piotr Szuster, Jose M. Molina, Jesus Garcia-Herrero, Joanna Kolodziej	DIS 75		
	Analysis Of The Development Of Strategic Management	FES 43	Hybrid Flow Shop Scheduling Of Automotive Parts Tuanjai Sombomwiwat, Chatkaew Ratcharak, Tuangyot Supekit	IBTS 64	Modelling And Model Predictive Control Of Magnetic Levitation Laboratory Plant Petr Chalupa, Jakub Novak, Martin Maly	MCT 46	Profiling And Rating Prediction From Multi-Criteria Crowd-Sourced Hotel Ratings Fatima Leal, Horacio Gonzalez-Velez, Benedita Malheiro, Juan Carlos Burguillo	DIS 95		
	Intermediary Activities On Decentralized Financial Markets	FES 57	Integrated Modelling Of Complex Processes On Basis Of BPMN Daniel Havran, Balazs Arpad Szucs	IBTS 68	Predictive Control Of A Series Of Multiple Liquid Tanks Substituted By A Single Dynamics With Time-Delay Stanislav Talas, Vladimir Bobal, Adam Krhovjak, Lukas Rusar	MCT 47	Performance Evaluation Of Massively Distributed Microservices Based Applications Marco Gribaudo, Mauro Iacono, Daniele Manini	DIS 123		
	Determinants Of FX-Risk Management Evidence Of Hungary	FES 98	Modelling And Simulation Of Public Transport Safety And Scheduling Algorithm Barbara Doemoeter, Erzsébet Kovacs	IBTS 72	Compensation Of Valve Deadzone Using Mixed Integer Predictive Control Jakub Novak, Petr Chalupa	MCT 48	A Low-cost Distributed IoT-based Augmented Reality Interactive Simulator for Team Training Pietro Piazzolla, Marco Gribaudo, Simone Colombo, Davide Manca, Mauro Iacono	DIS 122		
							Modeling A Session-Based Bot's Arrival Process At A Web Server Grazyna Suchacka, Daria Wotzka	DIS 126		

16:00-16:30 Coffee break CUB - Aula (ground floor)

16:30-18:00 Parallel sessions

CUB - 326		CUB - 328		CUB - 334		CUB - 336		CUB - 307		
Chair - Zsolt Bihary		Chair - Romeo Bandinelli		Chair - Frantisek Gazdos		Chair - Hans-Peter Barbey		Chair - Hans-Peter Barbey		
	Blind Vs. Embedded Indirect Reciprocity And The Evolution Of Cooperation	FES 41	A Design Pattern For Modelling And Simulation In Hospital Pharmacy Management Simone Righi, Karoly Takacs	IBTS 74	State-Space Predictive Control Of Inverted Pendulum Model Lukas Rusar, Adam Krhovjak, Stanislav Talas, Vladimir Bobal	MCT 50	Integrated Optimization Of Transportation And Supply Concepts In The Automotive Industry Corinna Maas, Andreas Tisch, Carsten Intra, Johannes Fottner	SIMO 30	Bounds For Markovian Queues With Possible Catastrophes Alexander Zeffman, Anna Korotysheva, Yacov Satin, Ksenia Kiseleva, Victor Korolev, Sergey Shorin	PROBSTAT 19
	Indexed Bonds With Mean-Reverting Risk Factors	FES 62	Discrete Event Simulation – Production Model In SIMUL8 Attila A. Vig, Agnes Vidovics-Dancs	IBTS 85	1DOF Gain Scheduled PH Control Of CSTR Adam Krhovjak, Stanislav Talas, Lukas Rusar	MCT 55	Evidence Of The Relevance Of Master Production Scheduling For Hierarchical Production Planning Thorsten Vitzthum, Frank Herrmann	SIMO 16	Two-Sided Truncations For M/M/S Queueing Model Yacov Satin, Anna Korotysheva, Galina Shilova, Alexander Sipin, Elena Fokicheva, Alexander Zeffman, Ksenia Kiseleva, Victor Korolev, Sergey Shorin	PROBSTAT 20
	Stress Test Modelling Of PD Risk Parameter Under Advanced IRB	FES 69	Context-Aware Multi-Objective Vehicle Routing Zoltan Pollak, David Popper	IBTS 87	Design Of A Simple Bandpass Filter Of A Third Octave Equalizer Janis Grabis, Vineta Minkevica	MCT 70	Influence Of Random Orders On The Bullwhip Effect Hans-Peter Barbey	SIMO 21	Generalized Gamma Distributions As Mixed Exponential Laws And Related Limit Theorems Victor Korolev, Andrey Gorshenin, Alexander Korchagin, Alexander Zeffman	PROBSTAT 24
	Valuation Of The Prepayment Option In The Banking Book	FES 104	An Optimization Of Spray Coating Process To Minimize Coating Material Consumption Petra Kalfmann, Janos Szaz, Agnes Vidovics-Dancs	IBTS 117	LQ Digital Control Of Ball & Plate System Lubos Spacek, Vladimir Bobal, Jiri Vojtesek	MCT 73	A Discrete Element Model For Agricultural Decision Support Adam Kovacs, Janos Peter Radics, Gyoergy Kerenyi	SIMO 29	On Asymptotic Approximations To The Distributions Of Statistics Constructed From Samples With Random Sizes Vladimir Bening, Victor Korolev, Alexander Zeffman	PROBSTAT 31
									Modeling For Ensuring Information Security Of The Distributed Information Systems Alexander A. Grushin, Elena E. Timonina, Sergey Ya. Shorin	PROBSTAT 26

18:00-21:00 Citadella walk

Thursday - 25th May 2017										
8:00-13:00	registration	BME - R building 1st floor								
9:00-10:00	Invited talk	BME - R108								
Jin Y. Ooi: Discrete Element Modelling Of Cohesionless, Cohesive And Bonded Granular Materials - From Model Conceptualisations To Industrial Scale Applications										
10:00-10:30	Coffee break	BME - R building 1st floor								
10:30-12:00	Sponsor session	BME - R108								
Szanyi, Csilla - KELER CCP: A Margin Calculation Method For Illiquid Products (authors: Marcell Béli, Csilla Szanyi, Kata Váradi)										
Anka, Márk - FÉMALK: FÉMALK simulations of aluminium high pressure die casting parts - Vibroacoustic simulation										
Claas Hungária: presentation of the activity of Claas Hungária Ltd.										
12:00-13:00	Lunch break	BME Canteen								
13:00-15:00	Parallel sessions	BME - R109	BME - R110	BME - R111	BME - R113-114	BME - R112	BME - R115			
Chair - Csilla Szanyi		Chair - Roman Senkerik		Chair - Frantisek Gazdos		Chair - Marco Gribaudo		Chair - Rina Mary Mazza		
	Modelling Civil Society's Transformational Dynamism And Its Potential Effects	FES 96	On The Effect Of Neighborhood Schemes And Cell Shape On The Behaviour Of Cellular Automata Applied To The Simulation Of Submarine Groundwater Discharge	IS 27	Teaching Process Modelling And Simulation At Tomas Bata University In Zlin Using MATLAB And Simulink	MCT 103	System Performance Of A Variable Capacity Batch-Service Queue With Geometric Service Times And Customer-Based Correlation	PROBSTAT 25	Modeling And Simulation Of Cooperation And Learning In Cyber Security Defense Teams	SIMO 39
	Jozsef Veress		Christoph Tholen, Lars Nolle, Oliver Zielinski		Frantisek Gazdos		Jens Baetens, Bart Steyaer, Dieter Claeys, Herwig Bruneel		Rina Mary Mazza, Pasquale Legato	
	Model Of The State And EU Involvement In The Venture Capital Market	FES 100	Application Of Genetic Optimization Algorithms To Lumped Circuit Modelling Of Coupled Planar Coils	IS 67	Wireless Radiation Monitoring System	MCT 84	Using Inter-Arrival Times For Scheduling In Non-Observable Queues	PROBSTAT 36	Application Of Two Phase Multi-Objective Optimization To Design Of Biosensors Utilizing Cyclic Substrate Conversion	SIMO 2
	Erika Jaki, Endre Mihaly Molnar		Jennifer Schuett, Lars Nolle, Jens Werner		Camelia Avram, Silviu Folea, Dan Radu, Adina Astilean		Mikhail Konovalov, Rostislav Razumchik		Linias Litvinas, Romas Baronas, Antanas Zilinskas	
	Combination Of Time-Frequency Representations For Background Noise Suppression	FES 76	Automatic Beam Hardening Correction For CT Reconstruction	IS 105	SIMTONIA - A Framework Of Simulation Tools For Nuclear Industrial Applications	MCT 88	On An Exact Solution Of The Rate Matrix Of Quasi-Birth-Death Process With Small Number Of Phases	PROBSTAT 91	Numerical Discrete Element Simulation Of Soil Direct Shear Test	SIMO 63
	Eva Klejnova, Jitka Pomenkova, Jiri Blumenstein		Marina Chukalina, Anastasia Ingacheva, Alexey Buzmakov, Igor Polyakov, Andrey Gladkov, Ivan Yakimchuk, Dmitry P. Nikolaev		Jozsef Pales, Aron Vecsi, Gabor Hazi		Alexander Rummyantsev, Rama Murthy Garmella		Krisztian Kotroc, Gyoergy Kerenyi	
	The Use Of Econometric Models In The Study Of Demographic Policy Measures (Based On The Example Of Fertility Stimulation In Russia)	FES 22	Russian License Plate Segmentation Based On Dynamic Time Warping	IS 120	Nuclear Industrial Applications Of SIMTONIA	MCT 89	Analysis Of Unreliable Multi-Server Queueing System With Breakdowns Spread And Quarantine	PROBSTAT 49	Modelling Preference Ties And Equal Treatment Policy	SIMO 66
	Oksana Shubat, Anna Bagirova		Mikhail A. Povoltzkiy, Elena G. Kuznetsova, Timur M. Khanipov		Jozsef Pales, Aron Vecsi, Gabor Hazi		Alexander Dudin, Sergei Dudin, Olga Dudin, Konstantin Samouylov		Kolos Cs. Agoston, Peter Biro	
	The Use Of Cluster Analysis To Assess The Demographic Potential Of Russian Regions	FES 33	Uncovering Communication Density In PSO Using Complex Network	IS 128	An Embedded System Implementation Of A Predictive Algorithm For A Bioprocess	MCT 80	Infinite-Server Queueing Tandem With MPPP Arrivals And Random Capacity Of Customers	PROBSTAT 37		
	Oksana Shubat, Anna Bagirova, Irina Shmarova		Michal Pluhacek, Roman Senkerik, Adam Viktorin, Tomas Kadavy		Florin Stinga, Marius Marian, Valentin Kesse, Lucian Barbulescu, Emil Petre		Aleksander Moiseev, Svetlana Moiseeva, Ekaterina Lisovskaya			
15:00-15:30	Coffee break	BME - R 1st floor								
15:30-17:00	Parallel sessions	BME - R109	BME - R110	BME - R111	BME - R113-114					
Chair - Nóra Felföldi Szűcs		Chair - Zuzana Kominkova Oplatkova		Chair - Thomas Husslein		Chair - Alexander Zeifman				
	Experiments On Risk Perception And Investment Decisions Of Economic Actors	FES 107	An Intelligent Winch Prototyping Tool	IS 111	Calibration Of Railway Ballast DEM Model	SIMO 94	Modelling Of The Underwater Targets Tracking With The Aid Of Pseudomeasurements Kalman Filter	PROBSTAT 12		
	Nora Felföldi-Szucs, Peter Juhasz		Robin T. Bye, Ottar L. Osen, Webojern Rekdalsbakken, Birger Skogeng Pedersen, Ibrahim A. Hameed		Akos Orosz, Janos P. Radics, Kornel Tamas					
	Volatility Surface Calibration In Illiquid Market Environment	FES 109	Evolutionary Winch Design Using An Online Winch Prototyping Tool	IS 125	Backbone Strategy For Unconstrained Continuous Optimization	SIMO 114	Approaches To Stochastic Modeling Of Wind Turbines	PROBSTAT 13		
	Laszlo Nagy, Mihaly Ormos		Ibrahim A. Hameed, Robin T. Bye, Birger Skogeng Pedersen, Ottar L. Osen		Michael Feldmeier, Thomas Husslein		Migran N. Gevorkyan, Anastasiya V. Demidova, Ivan S. Zaryadov, Robert A. Sobolewski, Anna V. Korolkova, Dmitry S. Kulyabov, Leonid A. Sevastianov			
	Modelling Of Provision Under New Under International Financial And Reporting Standard (IFRS 9)	FES 115	SHADE Mutation Strategy Analysis Via Dynamic Simulation In Complex Network	IS 127	Generation Algorithms Of Fast Generalized Hough Transform	SIMO 119	Asymptotic Analysis Of Markovian Retrial Queue With Two-Way Communication Under Low Rate Of Retrials Condition	PROBSTAT 52		
	Csaba Kadar		Adam Viktorin, Roman Senkerik, Michal Pluhacek, Tomas Kadavy		Egor I. Ershov, Evgeny A. Shvets, Timur M. Khanipov, Dmitry P. Nikolaev		Anatoly Nazarov, Svetlana Paul, Irina Gudkova			
cca. 19:00	arriving to the conference dinner to the Parliament (more details about it can be found in the conference bag)									
20:00-23:00	Conference dinner - Parliament									
Friday - 26th May 2017										
9:00-11:30	Registration	BME - R 1st floor								
9:00-9:30	Coffee break	BME - R 1st floor								
9:30-11:30	Parallel sessions	BME - R109	BME - R110	BME - R111	BME - R113-114					
Chair - Alessandra Orsoni		Chair - Zuzana Kominkova Oplatkova		Chair - Georgi Kostov		Chair - Rostislav Razumchik				
	A Simulation Optimization Tool For The Metal Accessory Suppliers In The Fashion Industry: A Case Study	IBTS 108	Firework Algorithm Dynamics Simulated And Analyzed With The Aid Of Complex Network	IS 129	CAE/VR Integration - A Path To Follow? A Validation Based On Industrial Use	MCT 99	Modelling Of Vertical Handover From Untrusted WLAN Network To LTE	PROBSTAT 65		
	Virginia Fani, Romeo Bandinelli, Rinaldo Rinaldi		Tomas Kadavy, Michal Pluhacek, Adam Viktorin, Roman Senkerik		Holger Graf, Andre Stork		Alexander Yu. Grebeshkov, Elvira R. Zaripova, Alexandr V. Roslyakov, Konstantin E. Samouylov			
	Statistical Model Checking Of Multi-Agent Systems	ABS 59	Simulation Of Chaotic Dynamics For Chaos Based Optimization - An Extended Study	IS 130	Modeling Of Continuous Ethanol Fermentation In Ideal Mixing Column Bioreactor	MCT 3	Modeling And Simulation Of Reliability Function Of A Homogeneous Hot Double Redundant Repairable System	PROBSTAT 82		
	Liberio Nigro, Paolo F. Sciammarella		Roman Senkerik, Michal Pluhacek, Adam Viktorin, Zuzana Kominkova Oplatkova, Tomas Kadavy		Georgi Kostov, Ivan Petelkov, Rositsa Denkova, Vesela Shopka, Zapryana Denkova, Bogdan Goranov, Vasil Iliev		Vladimir Rykov, Dmitry Kozyrev, Elvira Zaripova			
	Driving Behaviour Clustering For Realistic Traffic Micro-Simulators	ABS 77	Different Approaches For Constant Estimation In Analytic Programming	IS 131	Modeling Of Corn Ears By Discrete Element Method (DEM)	MCT 28	Modelling And Response Time Analysis For Web Browsing Under Interruptions In LTE Network	PROBSTAT 86		
	Alessandro Petraro, Federico Caselli, Michela Milano, Marco Lippi		Zuzana Kominkova Oplatkova, Adam Viktorin, Roman Senkerik, Tomas Urbanek		Adam Kovacs, Gyoergy Kerenyi		Evgeny Mokrov, Eduard Sopin, Ekaterina Markova, Dmitry Poluektov, Irina Gudkova, Pavel Masek, Jiri Hasek			
							SIR Distribution In 3D Environment With Non-Stationary Mobility Of Users	PROBSTAT 92		
							Sergey Fedorov, Yurii Orlov, Andrey Samouylov, Dmitri Moltchanov, Yuliya Gaidamaka, Konstantin Samouylov, Sergey Shargin			

