

ECMS 2016 - Programme
OTH Regensburg, Galgenbergstrasse 30, Regensburg, Germany

Tuesday, May 31, 2016		
19:00 - 22:00	Welcome Party OTH Regensburg, Galgenbergstrasse 30, Regensburg, Germany	Registration/ECMS Office 18:00 - 21:00

Wednesday, June 1, 2016								
09:00 - 09:30	Welcome Ceremony ECMS 2016 Conference Chairman: Frank Herrmann President of the ECMS: Khalid Al-Begain President of the OTH Regensburg: Wolfgang Baier Dean of Faculty Computer Science and Mathematics at the OTH Regensburg: Thomas Waas ECMS 2016 Programme Chairman: Michael Manitz Room D003						Registration/ECMS Office	
09:30 - 10:30	Keynote: Andrea Matta "Discrete Event Optimization: Theory, Applications and Future Challenges"							
10:30 - 11:00	Coffee Break							
11:00 - 13:00 30 min per presentation ~2 min introduction 20 min talk ~8 min discussion	Room E006		Room E007		Room E009		Room E102	
	MCT — Modelling, Simulation and Control of Technical Processes		HIPMOS-DIS — High Performance Modelling and Simulation		IS — Simulation of Intelligent Systems		SIMO — Simulation and Optimization	
	#ID	Chair: Petr Chalupa	#ID	Chair: Mauro Iacono	#ID	Chair: Roman Šenkerík	#ID	Chair: Michael Manitz
	MCT-21	Identification And LQ Digital Control Of A Set Of Equal Cylinder Atmospheric Tanks – Simulation Study <i>Vladimir Bobal, Petr Dostal, Marek Kubalcik, Stanislav Talas</i>		The Chipset Cost Action <i>Joanna Kolodziej</i>	IS-121	New Approach Of Constant Resolving Of Analytical Programming <i>Tomas Urbanek, Zdenka Prokopova, Radek Silhavy, Ales Kuncar</i>	SIMO-40	Social And Ecological Capabilities For A Sustainable Hierarchical Production Planning <i>Marco Trost, Thorsten Claus, Enrico Teich, Maximilian Selmaier, Frank Herrmann</i>
	MCT-25	Discrete Method For Estimation Of Time-Delay Outside Of Sampling Period <i>Stanislav Talas, Vladimir Bobal, Adam Krhovjak, Lukas Rusar</i>			IS-129	Analytical Programming With Extended Individuals <i>Adam Viktorin, Michal Pluhacek, Zuzana Kominkova Oplatkova, Roman Senkerik</i>	SIMO-91	Job Shop Scheduling With Flexible Energy Prices <i>Maximilian Selmaier, Thorsten Claus, Marco Trost, Andreas Bley, Frank Herrmann</i>
	MCT-114	Nonlinear Simulink Model Of Magnetic Levitation Laboratory Plant <i>Petr Chalupa, Martin Maly, Jakub Novak</i>	DIS-84	Towards Secure Non-Deterministic Meta-Scheduling For Clouds <i>Agnieszka Jakobik, Daniel Grzonka, Joanna Kolodziej, Horacio Gonzalez-Velez</i>	IS-131	Study On Swarm Dynamics Converted Into Complex Network <i>Michal Pluhacek, Roman Senkerik, Jakub Janostik, Adam Viktorin, Ivan Zelinka</i>	SIMO-113	Future Demand Uncertainty In Personnel Scheduling: Investigating Deterministic Lookahead Policies Using Optimization And Simulation <i>Michael Roemer, Taieb Mellouli</i>
MCT-28	Linear Predictive Control Of Nonlinear Time-Delayed Model Of Liquid-Liquid Stirred Heat Exchanger <i>Radek Holis, Vladimir Bobal</i>	DIS-74	Atomic Instruction Translation Towards A Multi-Threaded QEMU <i>Alvise Rigo, Alexander Spyridakis, Daniel Raho</i>	IS-132	On The Simulation Of Complex Chaotic Dynamics For Chaos Based Optimization <i>Roman Senkerik, Michal Pluhacek, Adam Viktorin, Zuzana Kominkova Oplatkova</i>	SIMO-115	Optimal Production Volume Of Rubber Gloves Mold For Rubber Gloves Production Planning <i>Tuanjai Somboonwivat, Chorkaew Jaturanonda, Nattapong Chotpan, Kanoqan Leerojanaprapa</i>	
13:00 - 14:00	Lunch Canteen OTH Regensburg							

08:00 - 16:00

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	Room E006		Room E007		Room E009		Room E102		Registration/ECMS Office
	MCT — Modelling, Simulation and Control of Technological Processes		HIPMOS-DIS/PROBSTAT — High Performance Modelling and Simulation		AMS — Applied Modelling and Simulation		ABS — Agent Based Simulation		
	#ID	Chair: Petr Dostal	#ID	Chair: Daniel Grzonka	#ID	Chair: Edward Williams	#ID	Chair: Ulf Lotzmann	
14:00 - 15:30 30 min per presentation ~2 min introduction 20 min talk ~8 min discussion	MCT-39	Evaluation Of The Primary Metabolism Of Monocultures And Yoghurt Starters With The Participation Of Urease-Deficient Streptococcus Thermophilus Strains <i>Ivan Petelkov, Rositsa Denkova, Bogdan Goranov, Vesela Shopaska, Georgi Kostov, Zapryana Denkova, Nadya Ninova-Nikolova, Zoltan Urshev, Svetlana Minkova</i>	DIS-125	Three Layers Network Influence On Cloud Data Center Performances <i>Marco Gribaudo, Mauro Iacono, Daniele Manini</i>	AMS-24	Simulation Improves Operations At A Specialized Takeout Restaurant <i>Sapthagirishwaran Thennal Sivaramakrishnan, Shanmugasundaram Chandrasekaran, Jennifer Dhanapal, Paul Ajaydivyan Jeya Sekar, Edward J. Williams</i>	ABS-38	A Learning Agent For A Multi-Agent System For Project Scheduling In Construction <i>Florian Wenzler, Willibald A. Guenther</i>	08:00 - 16:00
	MCT-87	Using Of Orientation Sensor CHR 6-DM In Security Technologies <i>Milan Adamek, Petr Neumann, Martin Pospisilik</i>	DIS-118	Cloud Implementation Of Agent-Based Simulation Model In Evacuation Scenarios <i>Andrzej Wilczynski, Joanna Kolodziej</i>	AMS-18	Reachability Of Fractional Continuous-Time Linear Systems Using The Caputo-Fabrizio Derivative <i>Tadeusz Kaczorek</i>	ABS-46	Agent-Based Model Continuity Of Stochastic Time Petri Nets <i>Franco Cicirelli, Libero Nigro, Paolo F. Sciammarella</i>	
	MCT-89	Schottky Diode Replacement By Transistors: Simulation And Measured Results <i>Martin Pospisilik</i>	PROB STAT-98	New Scheduling Policy For Estimation Of Stationary Performance Characteristics In Single Server Queues With Inaccurate Job Size Information <i>Lusine Meykhanadzhyan, Rostislav Razumchik</i>	AMS-35	Making Of Credible Permeability Maps For Layers Of Hydrogeological Model Of Latvia <i>Aivars Spalvins, Inta Lace, Kaspars Krauklis</i>	ABS-102	Frontier Based Multi Robot Area Exploration Using Prioritized Routing <i>Rahul Sharma K., Daniel Honc, Frantisek Dusek, Gireesh Kumar T.</i>	
15:30 - 16:00	Coffee Break								
	Room E006		Room E007		Room E009		Room E102		
	MCT — Modelling, Simulation and Control of Technological Processes		FES — Finance and Economics and Social Science		IS — Simulation of Intelligent Systems		SIMO — Simulation and Optimization		
	#ID	Chair: Jiri Vojtesek	#ID	Chair: Kata Váradi	#ID	Chair: Roman Šenkeřík	#ID	Chair: Oliver Rose	
16:00 - 18:00 30 min per presentation ~2 min introduction 20 min talk ~8 min discussion	MCT-27	Cascade Control Of A Tubular Chemical Reactor Using Nonlinear Part Of Primary Controller <i>Petr Dostal, Jiri Vojtesek, Vladimir Bobal</i>	FES-95	Small Shipment Delivery's Quality Improvement In Cities With Unstable Traffic <i>Pavel Patlins, Remigijus Pocs</i>	IS-130	Multi-Chaotic Differential Evolution For Vehicle Routing Problem With Profits <i>Adam Viktorin, Dusan Hrabec, Michal Pluhacek</i>	SIMO-85	Emergency Prediction In Electric Utilities: A Case Study From South Brazil <i>Ioachane Guimaraes, Vinicius Jacques Garcia, Daniel Pinheiro Bernardon, Julio Fanini</i>	
	MCT-97	Continuous-Time Vs. Discrete-Time Identification Models Used For Adaptive Control Of Nonlinear Process <i>Jiri Vojtesek, Petr Dostal</i>	FES-20	Modeling Inferential Minds In Conceptual Space <i>Carlos Barra, Enrique Canessa, Sergio E. Chaigneau</i>	IS-133	Simulation Of Submarine Groundwater Discharge Of Dissolved Organic Matter Using Cellular Automata <i>Lars Nolle, Holger Thormaehlen, Harald Musa</i>	SIMO-112	Model-Based Approach To Study Hot Rolling Mills With Data Farming <i>Dariusz Krol, Renata Slota, Jacek Kitowski, Lukasz Rauch, Krzysztof Bzowski, Maciej Pietrzyk</i>	
	MCT-43	Optimal Gain Scheduled Controller For A Two Funnel Liquid Tanks In Series <i>Adam Krhovjak, Petr Dostal, Stanislav Talas, Lukas Rusar</i>	FES-123	Tracking Business Trends – Dilemmas Of Measurement <i>Peter Juhasz, Janos Szaz, Kata Varadi, Agnes Vidovics-Dancs</i>	IS-75	Fast 3D Hough Transform Computation <i>Egor. I. Ershov, Arseniy P. Terekhin, Simon M. Karpenko, Dmitry P. Nikolaev, Vassili V. Postnikov</i>	SIMO-134	Mathematically Modelling HCG In Women With Gestational Trophoblastic Disease Using Exponential Interpolation <i>Catherine Costigan, Sabin Tabirca, John Coulter, Ernest Scheiber</i>	
	MCT-107	Bond Graph Model Of A Water Heat Exchanger <i>Toufik Bentaleb, Minh Tu Pham, Damien Eberard, Wilfrid Marquis-Favre</i>	FES-55	Taxation And Corporate Performance: Less Is More <i>Peter Juhasz, Kata Varadi</i>	IS-135	Design And Simulation Of Integrated EMI Filter <i>Jens Werner, Jennifer Schuett, Guido Notermans</i>	SIMO-88	Investigation Of Genetic Operators And Priority Heuristics for Simulation Based Optimization Of Multi-Mode Resource Constrained Multi-Project Scheduling Problems (MMRCMPSP) <i>Mathias Kuehn, Taiba Zahid, Michael Voelker, Zhugen Zhou, Oliver Rose</i>	
18:00 - 20:30	For those who have registered: Meeting and joint bus ride to the welcome evening at city hall <u>Joint bus ride: Registration Desk Welcome evening: City Hall Regensburg, Rathausplatz 1, 93047 Regensburg</u>								

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Thursday, June 2, 2016								
09:00 - 10:00	Keynote: Thomas Husslein "Data Analytics, Model Generation and Optimization Algorithms - A Perfect Match?" <u>Room D003</u>						Registration/ECMS Office	
10:00 - 10:30	Coffee Break							
10:30 - 13:00 30 min per presentation ~2 min introduction 20 min talk ~8 min discussion	<u>Room E006</u>		<u>Room E007</u>		<u>Room E009</u>		<u>Room E102</u>	
	SIMO — Simulation and Optimization		HIPMOS-PROBSTAT — High Performance Modelling and Simulation		MCT — Modelling, Simulation and Control of Technological Processes		FES — Finance and Economics and Social Science	
	#ID	Chairs: Thorsten Claus, Enrico Teich	#ID	Chair: Alexander Zeifman	#ID	Chair: Frantisek Gazdos	#ID	Chair: Kata Váradi
	SIMO-26	A New Approach For The Bullwhip Effect <i>Hans-Peter Barbey</i>	PROB STAT-76	Hybrid Simulation Of Active Traffic Management <i>Anna V. Korolkova, Tatyana R. Velieva, Pavel Abaev, Leonid A. Sevastianov, Dmitry S. Kulyabov</i>	MCT-79	Modelling A PCT40 Heat Exchanger For Control Purposes <i>Frantisek Gazdos, Daniel Macek</i>	FES-68	Mental Framing In Risk-Aversion Dynamics An Empirical Investigation Of Intertemporal Choice <i>Mihaly Ormos, Dusan Timotity</i>
	SIMO-29	The Business Process Simulation Standard (BPSIM): Chances And Limits <i>Ralf Laue, Christian Mueller</i>	PROB STAT-82	SIR Analysis In Square-Shaped Indoor Premises <i>Andrey Samuylov, D. Moltchanov, Yu. Gaidamaka, V. Begishev, R. Kovalchukov, Pavel Abaev, Sergey Shorgin</i>	MCT-32	State-Space Predictive Control Of Two Liquid Tanks System With Constraints Of Process Variables <i>Lukas Rusar, Stanislav Talas, Adam Krhovjak, Vladimir Bobal</i>	FES-44	Friendship Of Stock Indices <i>Laszlo Nagy, Mihaly Ormos</i>
	SIMO-47	A Supply Chain Optimization Framework For CO2 Emission Reduction: Case Of The Netherlands <i>Narayan Kalyanarengan Ravi, Edwin Zondervan, Martin Van Sint Annaland, J.C. (Jan) Fransoo, Johan Grievink</i>	PROB STAT-94	Stochastization Of One-Step Processes In The Occupations Number Representation <i>Anna V. Korolkova, Ekaterina. G. Eferina, Eugeny B. Laneev, Irina A. Gudkova, Leonid A. Sevastianov, Dmitry S. Kulyabov</i>	MCT-59	Dominant Spectrum Assignment For Neutral Time Delay Systems: A Study Case <i>Libor Pekar, Roman Prokop</i>	FES-70	Intertemporal Choice And Dynamics Of Risk Aversion <i>Mihaly Ormos, Dusan Timotity</i>
	SIMO-49	Hybridising Local Search With Branch-And-Bound For Constrained Portfolio Selection Problems <i>Fang He, Rong Qu</i>	PROB STAT-110	On Analytical Modeling Of IMS Conferencing Server <i>Pavel Abaev, Vitaly Beschastny, Alexey Tsarev</i>	MCT-81	Modeling And Analysis Of Spin Splitting In Strained Graphene Nanoribbons <i>Sanjay Prabhakar, Roderick Melnik, Luis Bonilla</i>	FES-54	Classical And Novel Risk Measures For A Stock Index On A Developed Market <i>Julia Timea Nagy, Balint Zsolt Nagy, Jacint Juhasz</i>
SIMO-116	Optimal Scheduling Of Two-Stage Reentrant Hybrid Flow Shop For Heat Treatment Process <i>Noppachai Chalardkid, Tuanjai Somboonwiwat, Chareonchai Khompatraporn</i>	PROB STAT-72	Uniform In Time Bounds For "No-Wait" Probability In Queues Of Mt/Mt/S Type <i>Alexander Zeifman, Anna Korotysheva, Yacov Satin, Galina Shilova, Rostislav Razumchik, Victor Korolev, Sergey Shorgin</i>			FES-34	Optimal Fiscal Policies After The "Great Recession": A Case Study For Slovenia <i>Reinhard Neck, Dmitri Blueschke, Klaus Weyerstrass</i>	
13:00 - 14:00	Lunch <u>Canteen OTH Regensburg</u>							

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Thursday, June 2, 2016								
Room E006		Room E007		Room E009		Room E102		Room E008
MCT – Modelling, Simulation and Control of Technological Processes		HIPMOS-DIS/PROBSTAT – High Performance Modelling and Simulation		FES – Finance and Economics and Social Science		AMS – Applied Modelling and Simulation		Boardmeeting
#ID	Chair: Jiri Vojtesek	#ID	Chairs: Marco Gribaudo, Agnieszka Jakóbcik	#ID	Chair: Nóra Szűcs	#ID	Chair: Edward Williams	
MCT-22	Predictive Control Of Three-Tank-System Utilizing Both State-Space And Input-Output Models <i>Marek Kubalcik, Vladimir Bobal</i>	DIS-50	Big Data As A Service For Monitoring Cyber-Physical Production Systems <i>Alessandro Marini, Devis Bianchini</i>	FES-77	Estimation Of Customer Default Based On Behavioural Variables <i>Nora Felföldi-Szuecs</i>	AMS-63	Generic Reaction-Diffusion Model For Transmission Of Mosquito-Borne Diseases: Results Of Simulation With Actual Cases <i>Cynthia Mui Lian Kon, Jane Labadin</i>	14:00 - 16:30
MCT-66	Predictive Control Of Differential Drive Mobile Robot Considering Dynamics And Kinematics <i>Rahul Sharma K., Daniel Hanc, Frantisek Dusek</i>	DIS-111	The Model Of Data Delivery From The Wireless Body Area Network To The Cloud Server With The Use Of Unmanned Aerial Vehicles <i>Ruslan Kirichek</i>	FES-51	The Use Of Cluster Analysis For Demographic Policy Development: Evidence From Russia <i>Oksana Shubat, Anna Bagirova, Abilova Makhabat, Anton Ivlev</i>	AMS-90	Some GPSS Opportunities For Modeling Of Timestamp Ordering In DDBMS And Simulation Investigations <i>Svetlana Vasileva</i>	
MCT-69	Predictive And Feedback Linearizing Control Of Chlamydomonas Reinhardtii Photoautotrophic Growth Process <i>Florin Stinga, Emil Petre</i>	DIS-122	Simulation Of Robot-Assisted WSN Localization Using Real-Life Data <i>Michal Marks, Ewa Niewiadomska-Szynkiewicz</i>	FES-78	Factors Affecting Household Participation In Solid Waste Management Segregation And Recycling In Bangkok, Thailand <i>Atthirawong Walailak</i>	AMS-96	An Assessment Of Pharmacological Properties Of Schinus Essential Oils - A Soft Computing Approach <i>Jose Neves, M. Rosario Martins, Fatima Candeias, Silvia Arantes, Ana Piteira, Henrique Vicente</i>	
MCT-64	Greenhouse Modeling And Simulation Framework For Extracting Optimal Control Parameters <i>Byeong Soo Kim, Bong Gu Kang, Tag Gon Kim, Hae Sang Song</i>	PROB STAT-93	Simulation And Selection Of Efficient Decision Rules In Bank's Manual Underwriting Process <i>Mikhail Kononov, Rostislav Razumchik</i>	FES-86	A Plea For Microsimulation <i>Marc Hannappel</i>	AMS-45	Concept Hierarchies For Sensor Data Fusion In The Cognitive IoT <i>Franco Cicirelli, Giandomenico Spezzano</i>	
		DIS-15	Performance Evaluation Of SOA In Clouds <i>Ashraf M. Abusharekh, Alexander H. Levis</i>	FES-33	Individual-Level Simulation Model For Cost Benefit Analysis In Healthcare <i>Nagesh Shukla, Vu Lam Cao, Van Hoang Phuong, Marian Shanahan, Allison Ritter, Pascal Perez</i>	AMS-100	Truck Arrival Management At Maritime Container Terminals <i>Daniela Ambrosino, Lorenzo Peirano</i>	
14:00 - 16:30	30 min per presentation ~2 min introduction 20 min talk ~8 min discussion							
18:00 - 22:30	Meeting at the boat's pier for the Conference Dinner on the river boat "Kristallkönigin" Jetty Donauschiffahrt Wurm&Köck, Anlegestelle Werftstraße, Regensburg							

