From	Due								
		22.05.2018							
		Tuesday							
18:00	20:00	**Welcome Reception (H101)**							

From	Due								
		23.05.2018							
		Wednesday							
08:30	09:00	**Registration & Coffee (H215 a)**							
09:00	09:30	**Welcome Ceremonie (H102)**							
09:30	10:30	**Keynote 1 (H102)** **Thomas Bäck (Leiden Institute of Advanced Computer Science (LIACS))** **Algorithms for Simulation-Based Optimization Problems**							
10:30	11:00	**Coffee break (H215 a)**							

Parallel Sessions (90 min 3 Papers)

From	Due		**H210**		**H211**		**H212**
		Chair: TBA		**Chair:** Zuzana Komínková Oplatková		**Chair:** Mihály Ormos	
11:00	12:30	IBTS 804	Simulation Of An Order Picking System In A Manufacturing Supermarket Using Collaborative Robots / Fabio Coelho, Susana Relvas, Ana P. Barbosa-Povoa	IS 799	Behavior Tree Based Knowledge Reasoning For Intelligent Vessels In Maritime Traffic Simulations / Volker Golluecke, Daniel Lange, Axel Hahn, Soeren Schweigert	FES 796	Developing And Calibrating An ABM Of The Property Listing Task / Enrice Canessa, Sergio E. Chaigneau, Carlos Barra
		IBTS 853	Statistical Evaluation Of Emergency Service Demand In Electric Power Distribution Utilities / Guilherme de Oliveira da Silva, Vinicius Jacques Garcia, Lynceo Falavigna Braghirolli	IS 806	Comparative Analysis Of Metamodeling Techniques Based On An Agent-Based Supply Chain Model / Mert Edali, Gonenc Yucel	FES 798	Econometric Modelling Of Time Series Relationship Between Fertility And Income For The Russian Population: Methodological Issues / Oksana Shubat, Anna Bagirova
		IBTS 857	Simulation Based Analysis Of Ectopic Pregnancy Treatment Process To Support Process Redesign / Janis Grabis, Zane Grabe	IS 877	On A Novel Search Strategy Based On A Combination Of Particle Swarm Optimisation And Levy-Flight / Christoph Tholen, Tarek A. El-Mihoub, Lars Nolle	FES 818	Options With Stochastic Strike Prices / Janos Szaz, Agnes Vidovics-Dancs
12:30	13:30	**Lunch**					

Parallel Sessions (120 min 4 Papers)

From	Due		**H210**		**H211**		**H212**
		Chair: Frank Morelli		**Chair:** Roman Senkerik		**Chair:** Jiri Vojtesek	
13:30	15:30	SIMO 800	Process Optimization In "Smart" Companies Through Condition Monitoring / Frank Morelli, Jan-Felix Mehret, Thorsten Weidt, Moustafa Elazhary	IS 835	Blind Search Patterns For Off-Line Path Planning / Tarek A. El-Mihoub, Christoph Tholen, Lars Nolle	MCT 837	Ball & Plate Model For Robotic System / Lubos Spacek, Jiri Vojtesek, Frantisek Gazdos, Tomas Kadavy
		SIMO 808	A Domain-Specific Language For Routing Problems / Benjamin Hoffmann, Michael Guckert, Thomas Farrenkopf, Kevin Chalmers, Neil Urquhart	IS 841	Realtime Simulation And 3D-Visualisation Of Surface And Underwater Vehicles For Monitoring And Evaluating Autonomous Missions / Tobias Theuerkauff, Yves Wagner, Frank Wallhoff	MCT 839	Multimodel Approach In State-Space Predictive Control / Lukas Rusar, Vladimir Bobal
		SIMO 809	Positivity And Stability Of Descriptor Continuous-Time Linear Systems With Interval State Matrices / Tadeusz Kaczorek	IS 861	Pseudo Neural Networks Via Analytic Programming With Direct Coding Of Constant Estimation / Zuzana Kominkova Oplatkova, Adam Viktorin, Roman Senkerik	MCT 843	Control Of Temperature Inside Plug-Flow Tubular Chemical Reactor Using 1DOF And 2DOF Adaptive Controllers / Jiri Vojtesek, Lubos Spacek, Frantisek Gazdos
		SIMO 812	Web-Based Simulation Of Production Schedules With High-Level Petri Nets / Carlo Simon	IS 865	Study On Velocity Clamping In PSO Using CEC'13 Benchmark / Michal Pluhacek, Roman Senkerik, Adam Viktorin, Tomas Kadavy	MCT 863	A Matlab-Based Simulation Tool For The Analysis Of Unsymmetrical Power System Transients In Large Networks / Michael Kyesswa, Hueseyin K. Cakmak, Uwe Kuehnapfel, Veit Hagenmeyer
15:30	16:00	**Coffee break (H215 a)**					

Parallel Sessions (90 min 3 Papers)

From	Due		**H210**		**H211**		**H212**
		Chair: Karsten Oehlert		**Chair:** Zuzana Komínková Oplatková		**Chair:** Ágnes Vidovics-Dancs	
16:00	17:30	SFMC 828	Towards Immersed Boundary Methods For Complex Roughness Structures In Scale-Resolving Simulations / Konrad M. Hartung, Philipp Gilge, Florian Herbst	IS 882	Predicting System Level ESD Performance / Guido Notermans, Sergej Bub, Ayk Hilbrink	FES 834	The Effects Of Model Selection On The Guarantees On Target Volatility Funds / Gabor Kondor
		SFMC 831	Numerical Supported Design Of Continuously Adapted Riblets For Viscous Drag Reduction On A NREL Wind Turbine Airfoil / Karsten Oehlert, Jan H. Haake, Konrad M. Hartung	IS 867	Comparative Study Of The Distance/Improvement Based SHADE / Adam Viktorin, Roman Senkerik, Michal Pluhacek, Tomas Kadavy	FES 840	Review Of Global Industry Classification / Laszlo Nagy, Mihaly Ormos
		SFMC 860	Optimization Of The Plant Control Systems At Wilhelmshaven Power Plant Based On Coal Mill Models And State Controllers / Nicolas Mertens, Henning Zindler, Uwe Krueger, Marc-Hendrik Prabucki	IS 868	Boundary Strategies For Firefly Algorithm Analysed Using CEC`17 Benchmark / Tomas Kadavy, Michal Pluhacek, Adam Viktorin, Roman Senkerik	FES 842	Supplementation Of The Regulation Of Anti-Cyclical Margin Measures / Csilla Szanyi, Melinda Szorodai, Kata Varadi

From	Due				
		24.05.2018			
		Thursday			
08:30	09:00	**Registration & Coffee (H215 a)**			
09:00	10:00	**Keynote 2 (H102)** **Frederic Stahl (University of Reading)** **Building Adaptive Data Mining Models on Streaming Data in Real-Time, an Outlook on Challenges, Approaches and Ongoing Research**			
10:00	10:30	**Coffee break (H215 a)**			

Parallel Sessions (120 min 4 Papers)

		H210	H211	H212	O106
		Chair: **Mauro Iacono**	Chair: **Miloš Šeda**	Chair: **Roman Senkerik**	
10:30	12:30	DIS 815 — Concrete vs. Symbolic Simulation To Assess Cyber-Resilience Of Control Systems / Giuseppina Murino, Armando Tacchella	SIMO 817 — Minimisation Of Network Covering Services With Predefined Centres / Milos Seda, Pavel Seda	IS 869 — A Review On The Simulation of Social Networks Inside Heuristic Algorithms / Roman Senkerik, Michal Pluhacek, Adam Viktorin, Tomas Kadavy, Jakub Janostik, Zuzana Kominkova Oplatkova	**Board Meeting**
		DIS 847 — Performance Optimisation Of Edge Computing Homeland Security Support Applications / Marco Gribaudo, Mauro Iacono, Agnieszka Jakobik, Joanna Kolodziej	SIMO 822 — Finite Element Modelling Of Pacemaker Electrode For Time Varying Excitation / Shifali Kalra, M. Nabi	IS 871 — Mapping Of Enclosed Buildings Using Mobile Radio Tomography / Anastasia Ingacheva, Vladislav Kokhan, Dmitry Osipov	
		DIS 848 — Anchor Placement In Indoor Object Tracking Systems For Virtual Reality Simulations / Marco Gribaudo, Pietro Piazzolla, Mauro Iacono	SIMO 823 — Improved TPWL Based Nonlinear MOR For Fast Simulation Of Large Circuits / Ammu Chathukulam, Debashree Sarkar, Shifali Kalra, M. Nabi	IS 856 — Model Checking Knowledge And Commitments In Multi-Agent Systems Using Actors And UPPAAL / Christian Nigro, Libero Nigro, Paolo F. Sciammarella	
		DIS 850 — New Fuzzy Numbers Comparison Operators In Energy Effectiveness Simulation And Modeling Systems / Wojciech T. Dobrosielski, Jacek M. Czerniak, Hubert Zarzycki, Janusz Szczepanski	SIMO 826 — Quality Evaluation Of Models And Polymodel Complexes: Subject-Object Approach / Boris Sokolov, Vladislav Sobolevsky, Stanislav Mikoni, Valerii Zakharov, Ekaterina Rostova	IS 866 — Tuning Of The Bison Algorithm Control Parameters / Anezka Kazikova, Michal Pluhacek, Roman Senkerik	

| 12:30 | 13:30 | **Lunch** | | | |

Parallel Sessions (120 min 4 Papers)

		H210	H211	H212
		Chair: **Mauro Iacono**	Chair: **Tuanjai Somboonwiwat**	Chair: **Peter T. Zwierczyk**
13:30	15:30	DIS 872 — Stackelberg Game-Based Models In Energy-Aware Cloud Scheduling / Damian Fernandez-Cerero, Alejandro Fernandez-Montes, Agnieszka Jakobik, Joanna Kolodziej	SIMO 824 — Diode Model Generation For Simulation Of Harmonic Distortion / Jennifer Schuett, Jens Werner, Ayk Hilbrink	FDEM 854 — Coupling Finite And Discrete Element Methods Using An Open Source And A Commercial Software / Akos Orosz, Kornel Tamas, Janos P. Radics, Peter T. Zwierczyk
		DIS 873 — ANN-Based Secure Task Scheduling In Computational Clouds / Jacek Tchorzewski, Ana Respicio, Joanna Kolodziej	SIMO 829 — Optimal Planning For Purchase And Storage With Multiple Transportation Types For Concentrated Latex Under Age-Dependent Constraint / Tuanjai Somboonwiwat, Sutthinee Klomsae, Walailak Atthirawong	FDEM 855 — Coupled DEM-FEM Simulation On Maize Harvesting / Adam Kovacs, Peter T. Zwierczyk
		DIS 874 — Efficiency Analysis Of Resource Request Patterns In Classification Of Web Robots And Humans / Grazyna Suchacka, Igor Motyka	SIMO 832 — Using DEMATEL To Explore The Relationship Of Factors Affecting Consumers' Behaviors In Buying Green Products / Walailak Atthirawong, Wariya Panprung, Kanogkan Leerojanaprapa	FDEM 859 — Investigation The Effect Of The Model Dimension In Soil-Cone Penetrometer Discrete Element Simulations / Krisztian Kotrocz, Gyoergy Kerenyi
		PROBSTAT 846 — Simulation Of Large-Scale Queueing Systems / Sergey A. Vasilyev, Galina Tsareva	SIMO 838 — Solving Location Problem For Vehicle Identification Sensors To Observe And Estimate Path Flows In Large-Scale Networks / Pegah T. Yazdi, Yousef Shafahi	FDEM 881 — Investigation Of Soil-Sweep Interaction In Laboratory Soil Bin And Modelling With Discrete Element Method / Kornel Tamas, Zsofia Olah, Lilla Racz-Szabo, Zoltan Hudoba
				FDEM 875 — Automatic Calibration Of Discrete Element Models / Ferenc Safranyik, Istvan Keppler

| 15:30 | 16:00 | **Coffee break (H215 a)** | | | |

Parallel Sessions (90 min 3 Papers)

		H210	H211	H212
		Chair: **Mauro Iacono**	Chair: **Jiri Vojtesek**	Chair: **Siyang Hu and Chengdong Yuan**
16:00	17:30	PROBSTAT 862 — Global And Local Synchronization In Parallel Space-Aware Applications / Franco Cicirelli, Agostino Forestiero, Andrea Giordano, Carlo Mastroianni, Rostislav V. Razumchik	MCT 797 — MATLAB Toolbox For Self-Tuning Predictive Control Of Time-Delayed Systems / Radek Holis, Vladimir Bobal	MFEM 807 — Modeling And Simulation Of Bioheat Powered Subcutaneous Thermoelectric Generator / Ujjwal Verma, Jakob Bernhardt, Dennis Hohlfeld
		PROBSTAT 864 — Software Package For The Active Queue Management Module Model Verification / Tatyana R. Velieva, Anna V. Korolkova, Migran N. Gevorkyan, Sergey A. Vasilyev, Ivan S. Zaryadov, Dmitry S. Kulyabov	MCT 801 — New Approach To Modelling The Kinetics Of The Fermentation Process In Cultivation Of Lactic Acid Bacteria / Georgi Kostov, Rositsa Denkova-Kostova, Vesela Shopska, Petar Nedyalkov, Zapryana Denkova, Bogdan Goranov, Vasil Iliev, Kristina Ivanova, Desislava Teneva	MFEM 816 — Multiphysics Modeling And Simulation Of A Dual Frequency Energy Harvester / Sofiane Bouhedma, Yuhang Zheng, Dennis Hohlfeld
		PROBSTAT 870 — Simulation Of The Limited Resources Queuing System For Performance Analysis Of Wireless Networks / Eduard Sopin, Kirill Ageev, Sergey Shorgin	MCT 836 — A Variable Detail Model Simulation Methodology For Cyber-Physical Systems / T.G. Broenink, J.F. Broenink	MFEM 833 — Parametric Model Order Reduction Of Induction Heating System / Ananya Roy, M. Nabi

| 17:30 | 19:00 | | | | |
| 19:00 | 22:00 | **Conference dinner (ATLANTIC Hotel Wilhelmshaven Jadeallee 50, 26382 Wilhelmshaven Germany)** | | | |

From	Due					
		25.05.2018				
		Friday				
08:30	09:00	**Registration & Coffee (H215 a)**				
09:00	11:00	**Parallel Sessions (120 min 4 Papers)**				
		H210		**H211**		**H212**
		Chair: **Marco Trost**		**Chair:** **Melinda Szodorai**		
		SIMO 844	**Master Production Scheduling With Integrated Aspects Of Personnel Planning And Consideration Of Employee Utilization Specific Processing Times**	**FES 811**	**Fuzzy Logic Modelling Of The Russian Demographic Space**	
			Marco Trost		**Anna Bagirova, Oksana Shubat, Alexander Akishev**	
		SIMO 852	**Assessing Crop Rotation Sustainability Using Analytical Hierarchy Process**	**FES 802**	**Dynamics Of Volatility Spillover Between Stock And Foreign Exchange Market: Empirical Evidence From Central And Eastern European Countries**	
			Saturnina Fabian Nisperos, Frederic D. McKenzie		**Ngo Thai Hung**	
		SIMO 876	**Ground Vehicle Localization With Particle Filter Based On Simulated Road Marking Image**	**FES 819**	**Competitiveness And Finance Of Supply Chains: Considerations On Optimisation**	
			Oleg Shipitko, Anton Grigoryev		**Peter Juhasz, Janos Szaz, Sandor Misik**	
		SIMO 879	**Thermistor Problem: Multi-Dimensional Modelling, Optimization And Approximation**	**FES 820**	**Healthcare Demand Simulation Model**	
			Ciro D'Apice, Umberto De Maio, Peter I. Kogut		**Bozena Mielczarek, Jacek Zabawa**	
11:00	11:30	**Coffee break (H215 a)**				
11:30	12:30	**Best Paper Award and Closing Ceremonie**				
12:30	13:30	**Lunch**				