I3M Multiconference Program

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I3M: The 9th International Multidisciplinary Modelling & Simulation Multiconference

General Chair
Agostino G. Bruzzone - Simulation Team MISS DIME - University of Genoa, Italy
Yuri Merkuryev - Department of M&S, Riga TU, Latvia

Program Chair
Francesco Longo - MSC-LES, University of Calabria, Italy

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EMSS: The 24rd European Modelling & Simulation Symposium,

EMSS General Chairs:
Francesco Longo, MSC-LES, M&SNet Center, University of Calabria, Italy
Felix Breitenecker, Vienna University of Technology, Vienna, Austria

EMSS Program Chairs:
Emilio Jimenez, University of La Rioja, Spain
Boris Sokolov, St. Petersburg Institute for Informatics and Automation, Russia

HMS: The 14th International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation

HMS General Chairs:
Agostino Bruzzone, MISS - Genoa Center, University of Genoa, Italy
Yury Merkuryev, Riga Technical University, Latvia

HMS Program Chair:
Manfred Gronalt, University of Natural Resources and Life Sciences Vienna, Austria
Wayne Talley, Old Dominion University, Virginia, USA

MAS: The 11th International Conference on Modelling & Applied Simulation

MAS General Chairs:
Michael Affenzeller, Upper Austria University of Applied Sciences,Austria
Marina Massei, Liophant Simulation, Italy

MAS Program Chairs:
Fabio De Felice, University of Cassino, Italy
David Del Rio Vilas, University of a Coruna, Spain

IMAACA: The 5th International Conference on Integrated Modeling and Analysis in Applied Control and Automation

IMAACA Conference Chairs:
Sergio Junco, Universidad Nacional de Rosario, Argentina
Geneviève Dauphin-Tanguy, Ecole Centrale de Lille, France

DHSS: The International Defense and Homeland Security Simulation Workshop

DHSS General Chairs:
Agostino Bruzzone, Simulation Team MITIM DIME, University of Genoa, Italy
John A. Sokolowski, Virginia Modeling, Analysis and Simulation Center, VA, USA

DHSS Program Chair:
Wayne Buck, HQ Supreme Allied Commander Transformation, NATO
Robert Sottilare, US Army, USA

I_WISH: The International Workshop on Innovative Simulation for Health Care

I_WISH General Chairs:
Werner Backfrieder, Upper Austrian University of Applied Sciences, Austria
Vera Novak, BIDMC, Harvard Medical School, USA

I_WISH Program Chair:
Joseph Rosen, Thayer School of Engineering at Darmouth, USA

I3M: The International Multidisciplinary Modelling & Simulation Multiconference is involving EMSS, MAS, IMAACA, HMS, DHSS, I_WISH and Workshops; All Sessions are open to all I3M Attendees

EMSS: European Modelling & Simulation Symposium, 24th Edition, Part of I3M2012

MAS: The International Conference on Modelling & Applied Simulation, 11th Edition, Part of I3M2012

IMAACA: The International Conference on Integrated Modeling and Analysis in Applied Control and Automation, 6th Edition, Part of I3M2012

HMS: The International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, 14th Edition, Part of I3M2012

DHSS: The International Defense and Homeland Security Simulation Workshop, 2nd Edition, Part of I3M2012

I_WISH: The International Workshop on Innovative Simulation for Healthcare, 1st Edition, Part of I3M 2012

Workshops: Special Sessions

JS: Joint Session I3M/DHSS/EMSS/HMS/IMAACA/MAS/IWISH freely open to all the attendees (i.e. Plenary Joint Opening)

I3M Event: A Special I3M Event (I3M Gala Dinner) is open to I3M / DHSS/ EMSS/ HMS/ IMAACA/ MAS/IWISH Attendees

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Wednesday 2012-09-19 8:30-10:00
Joint I3M Opening - Prater 1-4
Welcome Address I3M, Prof.Agostino G. Bruzzone, DIME, University of Genoa, Italy
Welcome Address, Prof. Felix Breitenecker, Technical University of Vienna, Austria

Conference Welcome
-EMSS - Prof.Francesco Longo, MSC-LES, University of Calabria, Italy
-HMS - Prof.Yuri Merkuryev, Riga Technical University, Latvia
-MAS Conference - Prof.Michael Affenzeller, Upper University of Applied Science, Austria
-IMAACA - Prof. Sergio Junco, Rosario University, Argentina
-DHSS - Wayne Buck, HQ Supreme Allied Commander Transformation, NATO
-I_WISH Address - Prof.Vera Novak Harvard Medical School, USA

Welcome of Societies & Networks

-I_M_CS - Prof.Emilio Jimenez, La Rioja University, Spain
-Liophant - Dr. Marina Massei, University of Genova, Italy
-Simulation Team - Prof. Miquel Angel Piera, UAB, Spain
-M&S Net - Prof.Claudia Frydman, LSIS, France
-National Russian Simulation Society - Prof. Boris Sokolov, SPIIRAS, Academy of Sciences, Russia
-Conference Updates

Wednesday 2012-09-19 10:00-10:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Wednesday 2012-09-19 10:30-12:00
Joint I3M Opening - Prater 1-4
Plenary Speeches:

Multidisciplinary Perspectives: an Opportunity for Modeling & Simulation
-Prof.Felix Breitenecker, Head of ARGESIM, TU Wien, Austria

Smart Grid Technologies for Increased Penetration of Renewable Energies
-Prof. Adrian Ilinca, Director of Wind Energy Research Laboratory, Université du Québec à Rimouski , Canada

M&S in Maritime Environment: Challenges and Opportunities
-Prof.A.Bruzzone, Dr.E.Gough, Scientific Director of Center for Maritime Research and Experimentation, NATO

Willkommen Wiener

All Around for I3M Conference Pictures

Wednesday 2012-09-19 12:00-13:30
LUNCH Co-Sponsored by Lio-Tech, CAL-TEK, MAST

Wednesday 2012-09-19 13:30-15:00
Room: Prater 1
EMSS: Agent Directed Simulation - Session I
Chair(s): Tuncer Oren, University of Ottawa

EMSS_66: Agent-monitored anticipatory multisimulation: a systems engineering approach for threat-management training
Tuncer Oren, Levent Yilmaz
University of Ottawa; Auburn University - Canada/ USA

EMSS_25: Simulating innovation adoption behavior: Lessons learned for modelers and programmers
Christian Stummer, Elmar Kiesling
 Bielefeld University; Vienna University of Technology - Germany/ Austria

EMSS_37: AEMOS: an agent-based electronic market simulator with ontology-services and social network support
Maria João Viamonte, Virgínia Nascimento, Nuno Silva, Paulo Maio
Polytechnic of Porto - Portugal

EMSS_51: Towards the implementation of a handball player agent framework
Joao Jacob, Rosaldo Rossetti, António Coelho, Rui Rodrigues
INESC TEC – INESC Technology and Science; LIACC DEI, University of Porto - Portugal

EMSS_42: Analysis of agents' behavior in multiagent system
Katerina Slaninova, Jan Martinovic, Pavla Drazdilova, Dominik Vymetal, Roman Sperka
Technical University of Ostrava; University in Opava - Czech Republic

Wednesday 2012-09-19 13:30-15:00
Room: Prater 2
EMSS: Workshop on Soft Computing Modeling and Simulation - session I
Chair: Michael Affenzeller, Upper University of Applied Sciences

EMSS_54: Simulation optimisation and monitoring in tactical and operational planning of deliveries
Galina Merkuryeva, Vitaly Bolshakov
Riga Technical University - Latvia

EMSS_80: Evolution tracking in genetic programming
Bogdan Burlacu, Michael Affenzeller, Michael Kommenda, Stephan Winkler, Gabriel Kronberger
University of Applied Sciences Upper Austria - Austria

EMSS_81: On the analysis, classification and prediction of metaheuristic algorithm behavior for combinatorial optimization problems
Andreas Scheibenpflug, Stefan Wagner, Erik Pitzer, Bogdan Burlacu, Michael Affenzeller
University of Applied Sciences Upper Austria - Austria

EMSS_83: Symbolic regression using tabu search in a neighborhood of semantically similar solutions
Gabriel Kronberger, Andreas Beham
University of Applied Sciences Upper Austria - Austria

EMSS_76: Enhanced confidence interpretations of GP based ensemble modeling results
Michael Affenzeller, Stephan M. Winkler, Stefan Forstenlechner, Gabriel Kronberger, Michael Kommenda, Stefan Wagner, Herbert Stekel
University of Applied Sciences Upper Austria; General Hospital Linz
Central Laboratory
 - Austria

Wednesday 2012-09-19 13:30-15:00
Room: Prater 3
MAS: Decision Support Systems Applications - Session I
Chair(s): Marina Massei, DIME University of Genoa

MAS_33: MOSIPS agent-based model for predicting and simulating the impact of public policies on SMEs

Federico Pablo-Martì, María Teresa Gallo, Antonio García-Tabuenca, Juan Luis Santos, Tomás Mancha
 University of Alcala - Spain

MAS_80: Models & interactive simulation for civil military interoperabiltiy in humanitarian aid and civil protection
Agostino G. Bruzzone, Alberto Tremori, Francesco Longo, Michele Turi, Giulio Franzinetti
University of Genoa; Simulation Team; University of Calabria - Italy

MAS_31: Simulation of uncertainty in rainfall-runoff models and their statistical evaluation in the FLOREON+ system
Štěpán Kuchař, Tomáš Kocyan, Pavel Praks, Martina Litschmannová, Jan Martinovič, Vít Vondrák
 Technical University of Ostrava - Czech Republic

MAS_29: A construction kit of flexible IT-services for supply chain planning and operations
Sebastian Steinbuß, Katja Klingebiel, Gökhan Yüzgülec, Tobias Hegmanns
Fraunhofer Institute for Software and Systems Engineering; Fraunhofer Institute for Material Flow and Logistics - Germany

MAS_62: Analysis of airport check-in counter allocation policies using simulation
Özden Onur Dalgiç, Yusuf Seçerdin, Gizem Sultan Nemutlu, Nilgün Fescioglu Unver
TOBB University of Economics and Technology - Turkey

Wednesday 2012-09-19 13:30-15:00
Room: Prater 4

IWISH: Mathematical Modeling and Health Technology Assessment - Session I
Chair(s): Niki Popper, dwh Simulation Services Vienna; Felix Breitenecker, Vienna Univ. of technolog

IWISH_30: IFEDH - solving health system problems using modelling and simulation
Niki Popper, Ingrid Wilbacher, Felix Breitenecker
dwh Simulation Services ; Main Association of Austrian Social Security Institutions; Vienna University of Technology - Austria

IWISH_24: Modelling health care utilisation: a method comparison
Stephanie Parragh, Patrick Einzinger
 Vienna University of Technology; dwh Simulation Services - Austria

IWISH_25: A comparison of system dynamics and Markov models for cost-effectiveness analysis of chronic diseases
Patrick Einzinger, Ruth Leskovar, Claudia Wytrzens
 Vienna University of Technology; dwh Simulation Services - Austria

IWISH_31: Modular modelling and hybrid combination in health technology assessment models – examples and technology

Günther Zauner, Patrick Einzinger, Florian Miksch, I. Zechmeister, Gottfried Endel, Felix Breitenecker
dwh Simulation Services ; Ludwig Boltzmann Institute for Health Technology Assessment; Main Association of Austrian Social Security Institutions; Vienna University of Technology - Austria

IWISH_26: Analysis and comparison of different modelling approaches based on an SIS epidemic
Andreas Bauer, Carina Pöll, Nina Winterer, Florian Miksch, Felix Breitenecker
 Vienna University of Technology; dwh Simulation Services - Austria

Wednesday 2012-09-19 13:30-15:00
Room: Messe 5+6
HMS: Integrated Intelligent Platform for Monitoring the Cross Border Natural Technological Systems - Session I
Chair(s): Yuri Merkuryev, Riga Technical University

HMS_7: Integrated intelligent platform for monitoring the cross-border natural-technological systems
Yuri Merkuryev, Boris Sokolov, Galina Merkuryeva
Riga Technical University; St. Petersburg Institute For Informatics and Automation of Russian Academy
of Sciences - Latvia/ Russia

HMS_41: Modeling and evaluation of IDS capabilities for prevention of possible information security
breaches in a web-based application
Pjotrs Dorogovs, Andrejs Romanovs
Riga Technical University - Latvia

HMS_27: The intelligent monitoring technology based on integrated ground and aerospace data
Boris V. Sokolov, Mikhail Yu. Okhtilev, Viacheslav A. Zelentsov, Marina A. Maslova
St. Petersburg Institute For Informatics and Automation of Russian Academy of Sciences - Russia

HMS_25: Information fusion multiple-models quality definition and estimation
Boris V. Sokolov, Viacheslav A. Zelentsov, Rafael M. Yusupov, Yuri A. Merkuryev
St. Petersburg Institute For Informatics and Automation of Russian Academy of Sciences; Riga Technical
University - Russia/ Latvia

HMS_21: Classification of natural-technogenic objects in remote sensing applications
Julija Petuhova, Arnis Lektauers, Viacheslav Zelentsov
Riga Technical University; St. Petersburg Institute For Informatics and Automation of Russian Academy
of Sciences - Latvia/ Russia

Wednesday 2012-09-19 13:30-15:00
Room: Messe 4

Wednesday 2012-09-19 15:00-15:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Wednesday 2012-09-19 15:30-17:00
Room: Prater 1
EMSS: Petri Nets Based on M&S - Session I
Chairs(s) Emilio Jiménez, University of La Rioja

EMSS_121: The translation of CPN into NETLOGO environment for the modelling of political issues:
FUPOL project
Miguel Mujica, Miquel Angel Piera
Autonomous University of Barcelona - Spain

EMSS_99: Transformation algorithm from an alternatives aggregation Petri net to a compound Petri net.
Two representations of an undefined Petri net with a non-empty set of exclusive entities.
Juan Ignacio Latorre-Biel, Emilio Jiménez-Macías
Public University of Navarre; University of La Rioja - Spain

EMSS_97: Decision making in the Rioja wine production sector
Juan Ignacio Latorre-Biel, Emilio Jiménez-Macías, Julio Blanco-Fernandez, Juan Carlos Sáenz-Díez
 Public University of Navarre; University of La Rioja - Spain

EMSS_96: Automatic design based on the Petri nets paradigm
Juan Ignacio Latorre-Biel, Emilio Jiménez-Macías
 Public University of Navarre; University of La Rioja - Spain

EMSS_95: Sequence of decisions on discrete event systems with structural alternative configurations
Juan Ignacio Latorre-Biel, Emilio Jiménez-Macías, Mercedes Pérez-Parte
 Public University of Navarre; University of La Rioja - Spain

Wednesday 2012-09-19 15:30-17:00
Room: Prater 2
EMSS: Workshop on Soft Computing Modeling and Simulation - session II
Chair: Michael Affenzeller, Upper University of Applied Sciences

EMSS_55: Unsupervised learning approach to feature selection in biological data analysis
Witold Jacak, Karin Proell
Upper Austria University of Applied Sciences - Austria

EMSS_63: Variable interaction networks in medical data
Stephan Winkler, Michael Affenzeller, Gabriel Kronberger, Michael Kommenda, Stefan Wagner, Witold
Jacak, Herbert Stekel
University of Applied Sciences Upper Austria; General Hospital Linz
Central Laboratory
 - Austria

EMSS_29: Simulation of grass phenophases in Inner Mongolia, China
Yurong Wei, Xuebiao Pan, Yanfang Cao, He Zhou
China Agriculture University; Meteorological Bureau of Inner Mongolia - China

EMSS_64: Identification of patterns in microscopy images of biological samples using evolution strategies
Daniela Borgmann, Julian Weghuber, Susanne Schaller, Jaroslaw Jacak, Stephan Winkler
University of Applied Sciences Upper Austria; Johannes Kepler University Linz
 - Austria

Wednesday 2012-09-19 15:30-17:00
Room: Prater 3
MAS: Decision Support Systems Applications - Session II
Chair(s): Marina Massei, DIME University of Genoa

MAS_6: Generation of alternatives for model predictive control in manufacturing
Sören Stelzer, Sören Bergmann, Steffen Strassburger
Ilmenau University of Technology - Germany

MAS_25: Unsupervised algorithm for retrieving characteristic patterns from time-warped data collections
Tomáš Kocyan, Jan Martinovič, Michal Podhorányi, Ivo Vondrák
 Technical University of Ostrava - Czech Republic

MAS_1: Intelligent systems for the core of anthropocentric objects and its modeling
Boris Fedunov
State Research Institute of Aviation Systems; Moscow Aviation Institute - Russia

MAS_37: Visualization in business process simulation
Xiaoming Du, Terrence Finandor, Kuzhen Wu, Jialiang Yao
University of Salford - UK

MAS_75: Modeling selectivity banks for mixed model assembly lines
Alex Blatchford, Yakov Fradkin, Oleg Gusikhin, Ravi Lote, Marco Pucciano, Onur Ulgen
Ford Motor Company; PMC; University of Genova; University of Michigan-Dearborn - USA/ Italy

Wednesday 2012-09-19 15:30-17:00
Room: Prater 4
IMAACA: Lumped and Distributed parameters Systems- Session I
Chair(s): Sergio Junco, Universidad National de Rosario

IMAACA_9: Modeling and simulation of severe slugging in air-water systems including inertial effects
Jorge Luis Baliño
 Universidade de São Paulo - Brazil

IMAACA_31: Operation strategies to minimize methanol recovery in batch distillation of hydroalcoholic mixtures
Franco De Luca, Raúl Munizaga-Miranda, Claudio Gelmi, José Ricardo Pérez-Correa
Pontificia Universidad Católica de Chile - Chile

IMAACA_2: Finite horizon h_infinity cheap control problem for a class of linear systems with state delays
Valery Y. Glizer
Ort Braude College - Israel

IMAACA_42: Unknown input observer: a physical approach
Dapeng Yang, Christophe Sueur
Ecole Centrale de Lille - France

IMAACA_39: Generalized controlled switched bond graph structures with applications to abrupt fault modeling
Matías Nacusse, Sergio Junco

 Universidad Nacional de Rosario; Consejo Nacional de Investigaciones Científicas y Técnicas - Argentina

Wednesday 2012-09-19 15:30-17:00
Room: Messe 5+6

HMS: Modeling and Simulation in Logistics, Traffic and Transportation- Session I

Chair(s): Massimo Tronci, Francesco Costantino, Giulio di Gravio, University of Rome La Sapienza

HMS_9: Collision avoidance method for multi-car elevator systems with more than two cars in each shaft
Shunji Tanaka, Daiki Hoshino
Kyoto University - Japan

HMS_6: Safety control of Latvian state road network using statistical modelling methods
Vladimirs Jansons, Vitalijs Jurenoks, Konstantins Didenko
Riga Technical University - Latvia

HMS_37: Comparative study of multiple criteria methods for choosing cargo transportation mode
Eugene Kopytov, Dmitry Abramov
 Transport and Telecommunication Institute,Riga - Latvia

HMS_11: Conceptual procedure for grouping logistics objects for mesoscopic modeling and simulation
Markus Koch, Tobias Reggelin, Juri Tolujew
Otto von Guericke University Magdeburg; Fraunhofer Institute for Factory Operation and Automation IFF
Magdeburg - Germany

HMS_34: Network data envelopment analysis of container shipping lines
Sebastián Lozano, Ester Gutiérrez, Salvador Furió, José Luís Salmerón
University of Seville; Fundación Valenciaport - Spain

Wednesday 2012-09-19 15:30-17:00
Room: Messe 4

Wednesday 2012-09-19 17:00-18:00
Room: Prater 2
Special Session: CIMIC And Planning Research In Complex Operational Realistic Network
Chair: Marina Massei, Simulation Team, Italy

"CAPRICORN Project" - Alberto Tremori, Univesity of Genoa, Italy
"Experimentation on a Complex CIMIC/PSYOPS Scenario", Francesca Madeo, MISS DIPTEM, Italy
Panel Discussion

Wednesday 2012-09-19 17:00-18:00
Room: Prater 3
Special Joint Simulation Team
Chair: Agostino G. Bruzzone, MISS MITIM Genoa Univ.

Simulation Team Initiatives and Proposals

Thursday 2012-09-20 8:30-10:00
Room: Prater 1
EMSS: Cloud Manufacturing - Session I
Chair: Lin Zhang, Beihang University; Enrico Bocca, Simulation Team

EMSS_123: Innovative C2 and simulation for crowdsourcing as force multiplier
Agostino Bruzzone, Henrique C. Marques, Giovanni Cantice, Michele Turi
University of Genoa; George Mason University;   DIME (Department of Mechanic, Energy, Production, Transports and Mathematic Models) PhD Program - Italy/ USA

EMSS_33: The cloud manufacturing services platform structure and key technologies research in the mould industry
Songxin Shi, Youmin Rong, Guojun Zhang, Wang Shi

Huazhong University of Science and Technology; DG-HUST Manufacturing Engineering Institute - China

EMSS_82: Cloud manufacturing platform architecture
Lei Ren
Beihang University; Ministry of Education - China

EMSS_15: Study on the description method of manufacturing capability based on description logics in cloud manufacturing
Yongliang Luo, Lin Zhang, Fei Tao, Yongkui Liu, Lei Ren
Beihang University - China

Thursday 2012-09-20 8:30-10:00
Room: Prater 2
EMSS: Industrial Engineering Modeling and Simulation- Session I
Chair(s): Tuncer Oren, University of Ottawa

EMSS_40: Electric field and strain effects on surface roughness induced spin relaxation in silicon field-effect transistors
Dmitri Osintsev, Oskar Baumgartner, Zlatan Stanojevic, Viktor Sverdlov, Siegfried Selberherr
Technical University of Vienna; Volgograd State Technical University - Austria/ Russia

EMSS_77: Multidimensional modelling of the in-cylinder processes in a GDI engine
Alessandro Montanaro, Ugo Sorge, Francesco Catapano, Bianca Maria Vagliecc
CNR Istituto Motori Napoli; DIME, University of Naples - Italy

EMSS_32: Capability of today's program verification: a practical approach for better quality and reliability in industrial applications
Michael Bogner, Johannes Schiller, Franz Wiesinger
University of Applied Sciences - Austria

EMSS_26: The high speed train interior noise reduction using multi-channel ANC system
Young Min Kim, Jong Il Bae, Kwon Soon Lee
Dong-A University; Pukyong National University - Korea

EMSS_125: An advanced framework for inventory management in reverse logistics
Francesco Longo
University of Calabria - Italy

Thursday 2012-09-20 8:30-10:00
Room: Prater 3
MAS: Simulation Based Design and Optimization - Session I
Chair(S):Pasquale Legato, University of Calabria

MAS_26: Simulation of the flood warning process with competency-based description of human resources
Štěpán Kuchař, Michal Podhorányi, Jan Martinovič, Ivo Vondrák
Technical University of Ostrava - Czech Republic

MAS_32: Autonomous logistic processes of bike courier services using multiagent-based simulation
Max Gath, Thomas Wagner, Otthein Herzog
University of Bremen - Germany

MAS_8: Open benchmark database for multidisciplinary optimization problems
Tuomo Varis, Tero Tuovinen
 University of Jyväskylä - Finland

MAS_10: Start-up business success prediction by means of artificial neural networks
Francisco García Fernadez, Ignacio Soret Los Santos, Santiago Izquierdo, Francisco Llamazares Redondo, Francisco José Blanco Jiménez
Universidad Politecnica de Madrid; ESIC; MTP; Universidad Rey Juan Carlos - Spain

MAS_34: Monte Carlo simulation - the bank account selection in the Czech Republic according to the bank charges
Martina Kuncova, Lenka Lizalova
College of Polytechnics Jihlava - Czech Republic

Thursday 2012-09-20 8:30-10:00
Room: Prater 4
EMSS/HMS: General Applications and methdologies in M&S - Session I
Chair: Michael Affenzeller, Upper University of Applied Sciences

EMSS_124: Serious games for developing intuition and agile thinking for decision makers
Agostino Bruzzone, Alberto Tremori, Claudia Baisini
 Simulation Team DIME University Genoa; Swedish Defense College - Italy/ Sweden

EMSS_10: Retrieving the performance overhead of synchronization mechanisms of various popular operating systems
Michael Bogner, Johannes Schütz, Franz Wiesinger
University of Applied Sciences - Austria

EMSS_90: Simulation of dynamically adaptive bandwidth allocation protocols using coloured Petri nets
Julija Asmuss, Viktors Zagorskis, Gunars Lauks
Riga Technical University - Latvia

HMS_45: Marine ports environmental sustainability: a state of the art overview
Agostino Bruzzone, Letizia Nicoletti, Alessandro Chiurco, Emanuela Palaia
University of Genoa; University of Calabria - Italy

EMSS_34: Monte Carlo ray-tracing approach to effectively design the ellipsoidal reflector of solar simulators
Marco Bortolini, Mauro Gamberi, Alessandro Graziani, Riccardo Accorsi, Emilio Ferrari
 University of Bologna; University of Padova - Italy

Thursday 2012-09-20 8:30-10:00
Room: Messe 5+6
IMAACA: Adaptive Control, Intelligent Control, Multivariable Control, Non Linera Control, Robust Control - Session I
Chair(s): Sergio Junco, Universidad National de Rosario

IMAACA_8: Air-heating set control via direct search method and structured singular value
Marek Dlapa
Tomas Bata University in Zlin - Czech Republic

IMAACA_36: ARMA model based GPC

Yuchen Zhao, Anibal Zanini
 Buenos Aires University - Argentina

IMAACA_3: Robust controllability sets of linear and saturated linear strategies with discontinuous gains
Valery Glizer, Vladimir Turetsky, Josef Shinar
Ort Braude College; Israel Institute of Technology - Israel

IMAACA_46: On the partial guidance of an autonomous blimp by various feedback laws
Chaker Jammazi, Adel Khadaraoui, Maali Zaghdoudi
Ecole Polytechnique de Tunisie - Tunisie

IMAACA_4: Model predictive control for formation keeping in an orbit
Adel Abdulrahman, Mohamad Bagash, Osama Abdelkhalik
Sana'a University; Taiz University; MTU - Yemen/ MTU

Thursday 2012-09-20 8:30-10:00
Room: Messe 4
IWISH: Patient Specific Modeling of the Cardiovascular Respiratory system: interdisciplinary approaches - Session I
Chair(s): Jerry Batzel, University of Graz; Nandu Goswami, Medical University of Graz; Mette Olufsen, North Carolina State University

IWISH_34: Structural correlation method for practical estimation of patient specific parameters in heart rate regulation
Johnny Ottesen, Mette Olufsen
 Roskilde University; North Carolina State University - USA/ Denmark

IWISH_32: Volatile organic compounds in exhaled breath: real-time measurements, modeling, and bio-monitoring applications
Julian King, Karl Unterkofler, Susanne Teschl, Anton Amann, Gerald Teschl
 University of Vienna; Vorarlberg University of Applied Sciences; Austrian Academy of Sciences, Rathausplatz; University of Applied Sciences Technikum Wien - Austria

IWISH_22: Qualitative features of a novel baroreceptor model
Adam Mahdi, Johnny Ottesen, Mette Olufsen
 North Carolina State University; Roskilde University - USA/ Denmark

IWISH_23: Global sensitivity and identifiability analysis applied to a model predicting baroreflex regulation during head-up tilt
Christian Haargaard Olsen, Jesper Mehlsen, Johnny T. Ottesen, Hien T. Tran, Mette S. Olufsen
 North Carolina State University; Frederiksberg Hospital; Roskilde University - USA/ Denmark

Thursday 2012-09-20 10:00-10:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Thursday 2012-09-20 10:30-12:00
Room: Prater 1
EMSS: M&S in and for Education - Session I

Chair(s): Maja Atanasijevic-Kunc, Univ. Ljubljana, ; Andreas Körner, Vienna Uiv. of Technology

EMSS_103: Achievements in results visualization with the computer numeric e-learning system MMT
Irene Hafner, Martin Bicher, Thomas Peterseil, Stefanie Winkler, Ursula Fitsch, Nicole Nagele, Wolfgang Wild, Felix Breitenecker
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_110: About the integration of simulink into the matlab-based simulation and experiment server MMT
Andreas Körner, Irene Hafner, Martin Bicher, Stefanie Winkler, Ursula Fitsch
Vienna University of Technology - Austria

EMSS_105: Improvement of advanced mathematical skills and abilities using the computer algebra based e-learning system MAPLE T.A.
Stefanie Winkler, Andreas Körner, Vilma Urbonaite
Vienna University of Technology - Austria

EMSS_106: Modelling and simulation e-learning set of hydraulic models

Martin Bicher, Ursula Fitsch, Maja Atanasijevic-Kunc, Nicole Nagele, Wolfgang Wild, Felix Breitenecker
Vienna University of Technology; University of Ljubljana - Austria/ Slovenia

EMSS_116: Mathematical modelling for experimental archaeology: case studies for mechanical tools in Hallstatt salt mines
Bernhard Heinzl, Erik Auer, Benedikt Slowacki, Kerstin Kowarik, Hans Reschreiter, Niki Popper, Felix Breitenecker
Vienna University of Technology; Natural History Museum Vienna; dwh Simulation Services - Austria

Thursday 2012-09-20 10:30-12:00
Room: Prater 2
EMSS: Industrial Engineering Modeling and Simulation- Session II
Chair(s): Tuncer Oren, University of Ottawa

EMSS_79: Automotive processes simulated by an ODE - PDE model
Nicola Pasquino, Luigi Raritá
University of Salerno - Italy

EMSS_94: Studies on the thermodynamical coupling of a machine tool and its environment using the object-oriented modelling approach of MODELICA
Matthias Rößler, Michael Landsiedl, Friedrich Bleicher, Christian Salvatori, Wolfgang Kastner, Felix Breitenecker
Vienna University of Technology, - Austria

EMSS_100: Object-oriented multi-domain modelling of machine tools: a case study
Bernhard Heinzl, Michael Landsiedl, Niki Popper, Alexandros-Athanassios Dimitriou, Fabian Dür, Friedrich Bleicher, Christian Reinisch, Felix Breitenecker
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_101: Dynamic analysis of a workpiece deformation in the roll bending process by FEM simulation
Tran Hoang Quan, Henri Champliaud, Zhengkun Feng, Dao Thien-My
École de Technologie Supérieure, Quebec - Canada

EMSS_58: The impacts of data inaccuracy on retailer's perishable inventory

Mert Bal, Alp Ustundag
Yildiz Technical University; Istanbul Technical University - Turkey

Thursday 2012-09-20 10:30-12:00
Room: Prater 3
MAS: Simulation based Design- Session I
Chair(s): Yilin Huang , Delft University of Technology, Alexander Verbraeck, Delft University of Technology

MAS_44: A simulation based design framework for large scale infrastructure systems design
Yilin Huang, Mamadou D. Seck, Michele Fumarola
Delft University of Technology; Macomi Systems Simulation - Netherlands/ Italy

MAS_22: The effect of toe mechanism for simulation of small biped walking robot by gait generation
Krissana Nerakae, Hiroshi Hasegawa
Shibaura Institute of Technology - Japan

MAS_72: Grid generation from video capture for meshless method thermal simulations
Khaoula Lassoued, Tonino Sophy, Luis Le Moyne, Nesrine Zoghlami
Drive-ISAT EA; CONPRI - France/ Tunisia

MAS_81: Renewable energy sources: advanced solutions for floating photovoltaic systems
Giovanni Mirabelli, Letizia Nicoletti, Teresa Pizzuti, Pierluigi Stumpo
University of Calabria - Italy

Thursday 2012-09-20 10:30-12:00
Room: Prater 4
SESDE Simulation for Environment, Sustainable Development and Energy- Session I
Chair: Marina Massei, DIME University of Genoa

MAS_63: Investigating spatial nuclear power effects using 3D real-time model
Janos Sebestyen Janosy
Hungarian Academy of Sciences - Hungary

MAS_42: Mathematical modeling of a heat recovery steam generator and its integration to a combined cycle power plant simulator
Jose Tavira-Mondragón, Luis Jiménez-Fraustro, Fernando Jiménez-Fraustro
Instituto de Investigaciones Electricas, Cuernavaca - Mexico

MAS_40: Lumped parameters modelling of the furnace and steam systems of a 350 MW boiler
Edgardo J. Roldan-Villasana, Ma. Cardoso-G., Jose A. Tavira-Mondragon, Miguel Rossano-Román
Instituto de Investigaciones Electricas, Cuernavaca - Mexico

IMAACA_26: Mathematical modeling of a 500 We power module composed by a PEM fuel cell combined with a DC-DC enhanced potential output converter
Roque Machado de Senna, Marcelo Linardi, Douglas Alves Cassiano, Ivan Santos, Edgar Ferrari da Cunha, Henrique de Senna Mota, Rosimeire Aparecida Jerônimo

Universidade de São Paulo; Universidade Federal do ABC; Universidade Federal de São Paulo - Brazil

IMAACA_41: Unknown input observer for detecting current sensor faults for a DFIG in wind turbine
Hakim Ouyessaad, Houcine Chafouk

Technopole du Madrillet - France

Thursday 2012-09-20 10:30-12:00
Room: Messe 5+6
IMAACA: Modeling and Control of Mechatronic Systems- Session I
Chair(s): Genevieve Tanguy, Ecole Centrale de Lille

IMAACA_43: Reducing vibrations on flexible rotating arms through the movement of sliding masses: modeling, optimal control and simulation
Eder Terceiro, Agenor de Toledo Fleury
Universidade de S˜ao Paulo; Centro Universitario da FEI - Brazil

IMAACA_11: Robust model matching control applied to a crane
Eduardo L. Lozano De Campos, Fabrizio Leonardi
Centro Universitário da FEI, São Bernardo do Campo - Brazil

IMAACA_49: Dynamic modelling of multi section bionic manipulator: application to Robotino-XT
Sonam Behl, Coralie Escande, Pushpraj Mani Pathak, Rochdi Merzouki, Bhanu Mishra
 Indian Institute of Technology; LAGIS FRE CNRS - India/ France

IMAACA_21: QFT control applied to a drive by wire (dbw) system
Fabio Delatore, Fabrizio Leonardi, Alexsander T. Carvalho, Carlos A. Morioka
Centro Universitario da FEI; FATEC Santo Andre - Brazil

IMAACA_33: CFD modeling of thermal distribution in industrial server centers for configuration optimisation and control
Pierre-Luc Paradis, Drishtysingh Ramdenee, Adrian Ilinca, Hussein Ibrahim, Abderrazak El-Ouafi, Jean-Sébastien Deschênes, Alexandre Boudreau, Daniel Rousse
 Université du Québec à Rimouski; École de technologie supérieure - Canada

Thursday 2012-09-20 10:30-12:00
Room: Messe 4
IWISH: Patient Specific Modeling of the Cardiovascular Respiratory system: interdisciplinary approaches - Session II
Chair(s): Jerry Batzel, University of Graz; Nandu Goswami, Medical University of Graz; Mette Olufsen, North Carolina State University

IWISH_27: A kalman filtering based approach for the modeling of the cardiovascular regulation system
Brett Matzuka, Jesper Mehlsen, Mette Olufsen, Hien Tran, Nakeya Williams
 North Carolina State University; Frederiksberg Hospital - USA/ Denmark

IWISH_42: Modeling the effects of intra-abdominal hypertension
Jerry Batzel, Stefan Fürtinger, Daniel Schneditz
Institute of Phisiology Medical University of Graz; Institute of Matemathics and Scientific Computing University of Graz - Austria

IWISH_41: Baroreflex sensitivity during the gravitational stimulus: physiology and pathophysiology
Raffaello Furlan, Franca Dipaola, Veronica Pacetti, Carlo Selmi, Francesca Meda, Ilaria Bianchi, Franca Barbic
Humanitas Clinical and Research Center, Rozzano; University of Milan - Italy

IWISH_38: Uncertainty quantification for cerebral perfusion

Rachael Gordon-Wright, Pierre Gremaud, Esther Martens, Vera Novak
North Carolina State University; Eindhoven University of Technology; Harvard Medical School - USA

IWISH_8: Three-dimensional numerical simulations of the aortic flow in presence of a left ventricle assist device
Rosario Mazzitelli, Attilio Renzulli, Giuseppe Filiberto Serraino, Gionata Fragomeni
 "Magna Graecia" University - Italy

Thursday 2012-09-20 12:00-13:30
LUNCH Co-Sponsored by Lio-Tech, CAL-TEK, MAST

Thursday 2012-09-20 13:30-15:00
Room: Prater 1
EMSS: Simulation Approaches in Logistic systems- Session I
Chair(s): Maria Pia Fanti, Polytechnic of Bari ;Chrysostomos Stylios, echnological Educational Institute of Epirus

EMSS_39: A decision support system for intermodal transportation networks management
Maria Pia Fanti, Giorgio Iacobellis, George Georgoulas, Chrysostomos Stylios, Walter Ukovich
Polytechnic of Bari; Technological Educational Institute of Epirus; Teorema Engineering S.r.l.; University of Trieste - Italy/ Greece

EMSS_59: Simulation for assessing security-based policies in import/export operations
Pasquale Legato, Rina Mary Mazza
University of Calabria - Italy

EMSS_6: A simulation tool for high-fidelity modeling of complex logistical networks
Reejo Mathew, Thomas W. Mastaglio, Andrew Lewis
MYMIC LLC - USA

EMSS_88: Operations by forklifts in warehouses
Aurelija Burinskiene
Vilnius Gediminas technical university - Lithuania

Thursday 2012-09-20 13:30-15:00
Room: Prater 2
EMSS: Industrial Engineering Modeling and Simulation- Session III
Chair(s): Stefano Saetta, University of Perugia

EMSS_13: Modeling and simulation based on inverse finite element method for unfolding large and thick blades of francis turbines
Zhengkun Feng, Henri Champliaud, Michel Sabourin, Sebastien Morin
University of Quebec; Alstom Hydro Canada Inc. - Canada

EMSS_14: Optimization of production ramp-up by using a simulation for personnel requirements planning
Gisela Lanza, Anna Sauer
Karlsruhe Institute of Technology - Germany

EMSS_21: A new practical approach to asset liability management for BASEL III and SOLVENCY II
Vojo Bubevski
Bubevski Systems & Consulting TATA Consultancy Services - UK

EMSS_11: FPGA, physics-based modeling of IGBT and PIN diode for hardware co-simulation of complex power electronic converters and systems
Philippos Aristidou, Patrick Palmer
University of Cambridge - UK

EMSS_52: Modelling the effect of sugar refinery pollution in a rural area in central Mexico
Ann Wellens, Julio González, Ricardo Torres-Jardón, Hugo Barrera
Universidad Nacional Autónoma de México - Mexico

Thursday 2012-09-20 13:30-15:00
Room: Prater 3
EMSS: Discrete, Combined, Distributed and Parallel Simulation - Session I
Chair(s): Gasper Music, University of Ljubljana,

EMSS_113: Change of independent variable for state event detection in system simulation - evaluation with ARGESIM benchmarks
Felix Breitenecker, Horst Ecker, Bernhard Heinzl, Andreas Körner, Matthias Rößler, Niki Popper
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_114: Developing a multihybrid system to simulate a university campus
Shabnam M. Tauböck, Felix Breitenecker, Dietmar Wiegand, Nikolas Popper, Gerald Hodecek
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_104: Possibilities and limits of co-simulating discrete and continuous models via the building controls virtual test bed
Irene Hafner, Matthias Rössler, Bernhard Heinzl, Andreas Körner, Michael Landsiedl, Felix Breitenecker, Christian Reinisch
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_44: Using graphic processors for highspeed simulations and other high performance computations
Thomas Wiedemann
University of Applied Science Dresden - Germany

Thursday 2012-09-20 13:30-15:00
Room: Prater 4
MAS: Workshop on Modeling and Simulation of Food Processing and Operations- Session I
Chair(s): Andrea Grassi, University of Modena and Reggio Emilia,; Giuseppe Vignali, University of Parma

MAS_70: Modeling and thermo-fluid dynamic simulation of a fresh pasta pasteurization process

Eleonora Bottani, Gino Ferretti, Matteo Folezzani, Michele Manfredi, Roberto Montanari, Giuseppe Vignali
 University of Parma - Italy

MAS_64: Advanced design of industrial mixers for fluid foods using computational fluid dynamics
Davide Marchini, Federico Solari, Mattia Armenzoni, Roberto Montanari, Marta Rinaldi, Eleonora Bottani, Gino Ferretti, Giuseppe Vignali
 University of Parma - Italy

MAS_66: Supply chain simulation: a study on reorder policies for perishable food products

Marta Rinaldi, Eleonora Bottani, Gino Ferretti, Mattia Armenzoni, Davide Marchini, Federico Solari, Giuseppe Vignali, Roberto Montanari
 University of Parma - Italy

MAS_56: Modeling of rheological behaviour of tomato spreads
E. Rosa, I.Peinado, A. Heredia, A. Andrés
Universitat Politècnica de València - Spain

MAS_20: Modeling of water retention in substrates used in production of tomato "sweet grape"
Honorato C. Pacco, Delvio Sandri, Sebastiãn Avelino Neto, Marco Antonio Amaral Jr., Ananda Helena Nunes Cunha
UnUCET-UEG, Anapolis; College of Agriculture and Veterinary Medicine UNB, Brasilia-GO - Brazil

Thursday 2012-09-20 13:30-15:00
Room: Messe 5+6
EMSS: Simulation and Optization approaches in Industry, Services and Logistic Processes- Session I
Chair(s): Idalia Flores, University of Mexico; Miguel Mújica Mota, Universitat Autonoma de Barcelon

EMSS_69: Optimal ambulance location, at University of Mexico, employing simulation
Jose Vindel
 University of Mexico - Mexico

EMSS_85: Simulation of hydrocarbon sales services of the National University of Mexico for the scenario analisys that improves return on equity
Israel Andrade Canades, Citlalli Dorantes Bolanos
National University of Mexico - Mexico

EMSS_70: Simulation of the operation of a metro station
Jorge Andres Garcia, Idalia Flores
UNAM - Mexico

EMSS_49: Performance of earliest completion strategy in order sortation systems
Fahrettin Eldemir, Elif Karakaya
Fatih University; TechnischeUniversität Dortmund - Turkey/ Germany

EMSS_24: The study of a deteriorating manufacturing system using simulation and response methodology
Annie Francie Kouedeu, Jean-Pierre Kenne, Pierre Dejax, Victor Songmene
University of Quebec; École des Mines de Nantes - Canada/ France

Thursday 2012-09-20 13:30-15:00
Room: Messe 4
IWISH: HealthCare Management and Healthcare problems- Session I
Chair(s): Felix Breitenecker, Technical University of Vienna

IWISH_45: MARIA: an agent driven simulation for a web based serious game devoted to renew education processes in health care
Agostino G. Bruzzone, Marco Frascio, Francesco Longo, Marina Massei, Anna Siri, Alberto Tremori
MITIM DIME University of Genoa; Simulation Center DISC University of Genoa; MSC-LES University of Calabria - Italy

IWISH_44: MORBISIMMOD - morbidity based needs assessment using microsimulation
M. Gyimesi, I. Czasny, G. Fülöp, S. Mathis-Edenhofer
Gesundheit Österreich GmbH, Österreichisches Bundesinstitut für Gesundheitswesen - Austria

IWISH_10: Simulations of uterine electrical activity using parallel computing
Tanguy Hedrich, Jeremy Laforet, Catherine Marque
Universite de Technologie de Compiegne - France

IWISH_11: Inner simulation sustaining the deliberative process in a cognitive architecture
Othalia Larue, Pierre Poirier, Roger Nkambou
GDAC Research Laboratory; Philosophy Dept University du Quebec - Canada

IWISH_15: Improving patient's waiting time at a health screening center
Thanon Wongsammacheep, Juta Pichitlamken, Waressara Weerawat
 Kasetsart University; Mahidol University - Thailand

Thursday 2012-09-20 15:00-15:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Thursday 2012-09-20 15:30-17:00
Room: Prater 1
EMSS: Effective design and Optimization by Using Modeling and Simulation Session I
Chair(s): Ijuan gnacio Latorre,Public University of Navarre

EMSS_53: Enriching a DEVS meta-model with OCL constraints
Stéphane Garredu, Evelyne Vittori, Jean-François Santucci, Dominique Urbani
 University of Corsica - France

EMSS_87: Designing PID controller for 4th order system by means of enhanced PSO algorithm with discrete chaotic dissipative standard map
Michal Pluhacek, Roman Senkerik, Donald Davendra, Ivan Zelinka
Tomas Bata University in Zlin; VB-TUO - Czech Republic

EMSS_57: Improved linearity CMOS multifunctional structure using computational circuits
Cosmin Popa
University Politehnica of Bucharest - Romania

EMSS_98: Utilization of analytic programming for the stabilization of high order oscillations of chaotic logistic equation
Roman Senkerik, Zuzana Oplatkova, Ivan Zelinka, Donald Davendra, Michal Pluhacek
Tomas Bata University in Zlin; Technical University of Ostrava - Czech Republic

EMSS_74: Optimal control strategies for low fuel consumption in a GDI engine under single and multiple injection
Michela Costa, Luigi Allocca, Paolo Sementa
CNR - Istituto Motori Napoli - Italy

Thursday 2012-09-20 15:30-17:00
Room: Prater 2
DHSS: Defense and Homeland Security - Session I

Chair(s): Robert Sottilare, US Army

DHSS_11: Securing Freight Trains for Hazardous Material Transportation: a WSN-Based Monitoring System
Valentina Casola, Alessandra De Benedicitis, Annarita Drago, Mariana Esposito, Francesco Flammini, Nicola Mazzocca
 Università di Napoli Federico II ; ANSALDO STS - Italy

DHSS_7: Criticality Assessment via Opinion Dynamics
Gabriele Oliva, Estefania Etcheves Miciolino
University Campus BioMedico - Italy

DHSS_15: Critical Infrastructure Protection: Threats Mining and Assessment
Giusj Digioia, Stefano Panzieri
Università degli Studi Roma Tre - Italy

DHSS_18: Evidence Marshalling with Inference Networks: An Application to Homeland Security
Ken McNaught, Peter Sutovsky
Cranfield University - UK

DHSS_13: A Smart Monitoring System Based on a Fast Classifier and a Semantic Post Reasoner
Flora Amato, Valentina Casola, Mariana Esposito, Nicola Mazzocca, Antonino Mazzeo
 Università di Napoli Federico II - Italy

Thursday 2012-09-20 15:30-17:00
Room: Prater 3
EMSS: Discrete, Combined, Distributed and Parallel Simulation- Session II
Chair(s): Gasper Music, University of Ljubljana,

EMSS_102: Process mining of production management data for improvement of production planning and manufaturing execution
Gasper Music, Primoz Rojec
University of Ljubljana; INEA d.o.o, Ljubljana - Slovenia

EMSS_2: Stability of the convex linear combination of fractional positive discrete-time linear systems
Tadeusz Kaczorek
Bialystok University of Technology - Poland

EMSS_108: Data independent model structure for simulation within Vienna UT more space project
Benjamin Rozsenich, Salah Alkilani, Martin Bruckner, Stefan Emrich, Gabriel Wurzer
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_47: Project management games using high level architecture
Ronald Ekyalimpa, Simaan Abourizk, Yasser Mohamed, Farzaneh Saba
University of Alberta - Canada

EMSS_84: Customizing Code Of Devs Models According To User Requirements Using LSIS_DME
Maamar Hamri, Rabah Messouci
Aix-Marseille Université - France

Thursday 2012-09-20 15:30-17:00
Room: Prater 4

MAS/EMSS Workshop on Modeling and Simulation of Food Processing and Operations- Session II
Chair(s): Andrea Grassi, University of Modena and Reggio Emilia; Giuseppe Vignali, University of Parma

MAS_52: Modelling and simulation of direct steam injection for tomato concentrate sterilization
Paolo Casoli, Gabriele Copelli
 University of Parma - Italy

MAS_67: Modelling and simulation of a fish processing factory ship

Nadia Rego Monteil, Raquel Botana Lodeiros, Diego Crespo Pereira, David del Rio Vilas, Rosa Rios Prado
 University of A Coruña - Spain

MAS_59: A BPMN general framework for managing traceability in a food supply chain
Giovanni Mirabelli, Teresa Pizzuti, Fernando Gómez-González, Miguel Angel Sanz-Bobi
 University of Calabria; Comillas Pontifical University - Italy/ Spain

MAS_60: Food traceability models: an overview of the state of the art
Giovanni Mirabelli, Teresa Pizzuti, Fernando Gómez-González, Miguel Angel Sanz-Bobi
 University of Calabria; Comillas Pontifical University - Italy/ Spain

EMSS_126: Simulation based analysis of a manufacturing system devoted to produce hazelnut based products
Agostino Bruzzone, Francesco Longo
University of Genoa; University of Calabria - Italy

Thursday 2012-09-20 15:30-17:00
Room: Messe 5+6
HMS: Intermodal transportation systems and services- Session I
Chair(s): Manfred Gronalt, University of Natural Resources and Applied Life Sciences

HMS_44: A simulation-based approach for resource management and control: a real case study of a Spanish container terminal
Carlos Arango, Agostino Bruzzone, Letizia Nicoletti, Pablo Cortes
University of Seville; University of Genoa; University of Calabria; University of Seville - Italy/ Spain

HMS_40: A parameterized model of multimodal freight transportation for maritime services optimization
Rosa Rios Prado, Diego Crespo Pereira, Juan Manuel Bastida Sardiña, David del Rio Vilas, Nadia Rego Monteil
 University of A Coruña - Spain

HMS_18: Simulation of the passage of containers through Le Havre seaport
Abderaouf Benghalia, Jaouad Boukachour, Dalila Boudebous
IUT du Havre - France

HMS_12: Analysing the efficiency of an intermodal terminal using simulation
Katrien Ramaekers, An Caris, Leen Gorissen
Hasselt University - Belgium

Thursday 2012-09-20 15:30-17:00 - Room: Messe 4

Special Session: SMACKDOWN at Liophant Booth Exhibition Area - Chair: Agostino G.Bruzzone, MISS DIPTEM, Italy - Bill Waite,Aegis Technologies, USA - Smackdown Initiative

Thursday 2012-09-20 17:00-18:00
Room: Prater 2
Special Session I3M2013
Chair: Yuri Merkuryev, Riga TU; Francesco Longo, MSC-LES, Italy

Presenting I3M2013
I3M Proposals & New Initiatives

Thursday 2012-09-20 17:00-18:00
Room: Prater 3

Social Event

Thursday 2012-09-20 20:00-22:30

20:00 I3M Gala Dinner at Zwölf Apostelkeller, Sonnenfelsgasse 3, A-1010 Wien

During Gala Dinner the I3M Best Paper Awards & Gianni Cantice Award for Gifted Simulation Students will be presented

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Friday 2012-09-21 8:30-10:00
Room: Prater 1
HMS: Intermodal transportation systems and services- Session II
Chair(s): Manfred Gronalt, University of Natural Resources and Applied Life Sciences

HMS_19: Synchronous railway simulation of shunting yards
Benno Hüttler, Jan Zazgornik, Manfred Gronalt
 University of Natural Resources and Life Sciences - Austria

HMS_10: Time-dependent routing of drayage operations in the service area of intermodal terminals
Kris Braekers, An Caris, Gerrit K. Janssens
Hasselt University; Research Foundation Flanders - Belgium

HMS_8: Analysis of the operations of an intermodal barge terminal
Lotte Verdonck, An Caris, Katrien Ramaekers, Gerrit K. Janssens
Hasselt University; Research Foundation Flanders - Belgium

HMS_32: Whatif: a decision support system for planning and management of rail freight networks
Andrea Emilio Rizzoli, Matteo Salani, Corrado Valeri, Janos Barta, Simone Croci-Torti, Aldo Croci, Angelo Barbone, Luca Maria Gambardella
Istituto Dalle Molle di Studi sull'Intelligenza Artificiale - Switzerland

HMS_17: Identifying opportunities of co-loading by means of simulation
An Caris, Tom van Lier, Cathy Macharis, Gerrit Janssens
Hasselt University; Vrije Universiteit Brussel; Research Foundation Flanders - Belgium

Friday 2012-09-21 8:30-10:00
Room: Prater 2
EMSS: Simulation Approaches in Logistic systems- Session II
Chair(s): Maria Pia Fanti, Polytechnic of Bari ; Chrysostomos Stylios, echnological Educational Institute of Epirus

EMSS_36: Development and evaluation of visualization system of global container flow for international manufacturers
Hisashi Takizawa, Hiromichi Akimoto, Kenji Tanaka, Jing Zhang
Ministry of Land, Infrastructure, Transport and Tourism of Japan ; Korea Advanced Institute of Science and Technology; The University of Tokyo - Japan

EMSS_22: Spectral approach to reliability evaluation of flow networks
Ilya Gertsbakh, Yoseph Shpungin
Ben-Gurion University; Shamoon College of Engineering - Israel

EMSS_7: On the incorporation of parameter uncertainty for inventory management
David F. Muñoz, David G. Muñoz
Instituto Tecnológico Autónomo de México; AOL Advertising - Mexico/ USA

EMSS_50: Reconfigurable and layout-aware storage system for network-based simulation models in the simulator D3FACT
Hendrik Renken, Felix Eichert, Markus Monhof
University of Paderborn - Germany

Friday 2012-09-21 8:30-10:00
Room: Prater 3
MAS: High Performance Simulation of Biological systems- Session I
Chair(s): Horacio Pérez-Sánchez, Universidad de Murcia, (Murcia) ; José M. Cecilia Universidad Católica

MAS_48: Ultra-fast registration of 2D electron microscopy images
Santiago Garcia, Julio Kovacs, Pablo Chacon
 Rocasolano Physical Chemistry Institute; QG Research, Los Angeles - Spain/ USA

MAS_57: Simulation of dilute-solution properties of biological macromolecules with the aid of high-performance computing
Ricardo Rodríguez Schmidt, Diego Amorós Cerdán, José Hernández Cifre, Guillermo Díaz Baños, José García de la Torre
 Universidad de Murcia - Spain

MAS_50: GPU-accelerated modelling of biological membranes ION-transport
Adam Gorecki, Krzysztof Dolowy
Warsaw University of Life Sciences - Poland

MAS_53: eSBMTools: python tools for enriched structure based modeling
Benjamin Lutz, Claude Sinner, Geertje Heuermann, Abhinav Verma, Alexander Schug
 Karlsruhe Institute of Technology - Germany

Friday 2012-09-21 8:30-10:00
Room: Prater 4
IWISH: HealthCare Management and Healthcare problems- Session II
Chair(s): Vera Novak, Harvard Medical School, USA

IWISH_7: Innovative online training framework supporting immersive scenario-based simulation for clinical decision making and large healthcare community of practice
Bruce Joy, Liz Chung, Susan Harrison, Tim Gray, Marco Biagini, Nerida Bardon, George Kantianis
VastPark Services Inc.; VastPark Pty Ltd; Australian Centre for Health Innovation; Genoa University - USA/ Australia/ Italy

IWISH_19: Adaptive behavior in complex healthcare interventions: assessment using computer simulation
Jean-Christophe Chiem, Thérèse Van Durme, Florence Vandendorpe, Olivier Schmitz, Niko Speybroeck, Sophie Cès, Jean Macq
Université Catholique de Louvain - Belgium

IWISH_37: Application of discrete systems simulation to reduce waiting time in the outpatient service of a hospital in the city of São Paulo, Brazil
Alexandre A. Massote, Domenico Caruso, João Batista Gonçalves Sousa
Centro Universitário da FEI - Brazil

IWISH_35: Pre-tender hospital simulation using naive diagrams as models
Gabriel Wurzer, Wolfgang Lorenz, Manfred Pferzinger
Vienna University of Technology ; UMIT - Austria

Friday 2012-09-21 8:30-10:00
Room: Messe 5+6
IMAACA: Qualitative Modeling, Bond Graph Modeling, Mathematical Modeling, Numerical Modeling- Session I
Chair(s): Genevieve Tanguy, Ecole Centrale de Lille

IMAACA_22: Mechanical analysis of 2d-brazed joint using a new hybrid "max-fem" model
Abderrazzaq Ifis, François Bilteryst, Mohammed Nouari
LEMTA CNRS-UMR - France

IMAACA_25: Towards a methodology for modelling and validation of an agricultural vehicle's dynamics and control
Martin Peter Christiansen, Kim Bjerge, Gareth Edwards, Peter Gorm Larsen
Aarhus University Finlandsgade - Demmark

IMAACA_35: Jacobian based control of walking robot with compliant legs
M. M. Gor, P. M. Pathak, A. K. Samantaray, Jung-Ming Yang, Seong Woo Kwak
 Indian Institute of Technology Roorkee; Indian Institute of Technology, Kharagpur; Catholic University of Daegu; Keimyung University - India/ South Korea

IMAACA_34: Neural network simulation of simple biological systems including optimal control problems
Tibor Kmet, Maria Kmetova
Constantine the Philosopher University in Nitra - Slovakia

IMAACA_28: A method predicting temperature rise of oil-hydraulic system considering heat balance between oil-passage and housing

Kohki Tomioka, Kazuhiro Tanaka, Hiroshi Higo, Fumio Shimizu
 NITTO DENKO Co.; Kyushu Institute Technology - Japan

Friday 2012-09-21 8:30-10:00
Room: Messe 4

Friday 2012-09-21 10:00-10:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Friday 2012-09-21 10:30-12:00
Room: Prater 1
EMSS: Simulation and Optization approaches in Industry, Services and Logistic Processes- Session II
Chair(s): Idalia Flores, University of Mexico; Miguel Mújica Mota, Universitat Autonoma de Barcelon

EMSS_92: Simulation models to support GALB heuristic algorithms and to evaluate multi objective performance index
Sergio Amedeo Gallo, Giovanni Davoli, Andrea Govoni, Riccardo Melloni, Gabriele Pattarozzi
University of Modena and Reggio Emilia - Italy

EMSS_75: Production scheduling on multiple lines with shared resources
Francesco Costantino, Giulio Di Gravio, Fabio Nonino, Matteo Cappannoli, Tommaso Silvestri
University of Rome "La Sapienza" - Italy

EMSS_68: Research on simplified modelling strategy for virtual commissioning
Peter Hoffmann, Reimar Schumann, Talal M.A. Maksoud, Giuliano C. Premier
 University of Applied Sciences and Arts Hannover; University of Glamorgan - Germany/ UK

EMSS_19: An integrated binary-tabu search approach for the buffer allocation problem: an industrial case study
Leyla Demir, Simge Yelkenci Kose, Semra Tunali, Deniz Tursel Eliiyi
Pamukkale University; Ministry of Science, Industry and Technology ; Izmir University of Economics - Turkey

EMSS_41: Detecting thin bones and modeling COD skeleton
Thordur Helgason, Rannveig Ása Gudundsdottir, Kristín Líf Valtýsdóttir, Kristinn Andersen
Landspitali-University Hospital; Reykjavik University; Marel ehf - Iceland

Friday 2012-09-21 10:30-12:00
Room: Prater 2
EMSS: Effective design and Optimization by Using Modeling and Simulation Session II
Chair(s): Miguel Mujyca Mota, UAB

EMSS_28: Multi-actors distributed control systems: reinforcement signal by shannon's entropy
Youcef Zennir, Denis Pomorski
Laboratoire d'automatique de Skikda; Polytech'Lille - Algérie/ France

EMSS_20: Comprehensive protocol for artificial intelligence development
Bruce L. Toy
Lockheed Martin - USA

EMSS_93: Using UWB for human trajectory extraction
Gonçalo Vasconcelos, Marcelo Petry, João Almeida, Rosaldo Rossetti, António Coelho

 University of Porto; INESC Technology and Science; Laboratório Nacional de Engenharia Civil - Portugal

EMSS_115: A simulation model for analysing unmanned aerial vehicle flight paths
Halil Cicibas, Kadir Alpaslan Demir, Murat M. Gunal, Nafiz Arica
Turkish Naval Academy Tuzla - Turkey

Friday 2012-09-21 10:30-12:00
Room: Prater 3
MAS: Workshop on Virtual and Augmented Reality - Session I
Chair(s): Gerson Cunha, LAMCE/COPPE/UFRJ

MAS_58: Augmented gallery guide
Zuzana Haladova, Csaba Bolyos
 Comenius University in Bratislava - Slovakia

MAS_16: Augmented reality system with chroma key for simulators
Mario L. Ribeiro, Gerson Cunha, Jose L.D. Alves, Maria Celia Santos Lopes, Gabriel A. Fernandes, Luiz
Landau, Cezar H.V. Da Costa
Universidade Federal do Rio de Janeiro - Brazil

MAS_12: Field experiments for engineering augmented reality tools
Gabriel Fernandes, Gerson Cunha, Celia Lopes, Luiz Landau, Alvaro L. G. de Azeredo Coutinho
Universidade Federal do Rio de Janeiro - Brazil

MAS_7: Wrinkle effect in cloth simulation using fluidity control
Jaruwan Mesit
Grambling State University - USA

Friday 2012-09-21 10:30-12:00
Room: Prater 4
IWISH: HealthCare Management and Healthcare problems- Session III
Chair(s): Vera Novak, Harvard Medical School, USA

IWISH_36: Towards leaner healthcare facility: application of simulation modelling and value stream
mapping
Waleed Abo Hamad, John Crowe, Amr Arisha
Dublin Institute of Technology - Ireland

IWISH_16: Reduction of turnaround time in a hospital's clinical laboratory by simulation modeling
Kanyarat Luangmul, Juta Pichitlamken, Waressara Weerawat
 Kasetsart University; Mahidol University - Thailand

IWISH_2: Simulating the bone-titanium interfacial changes around transfemoral osseointegrated implants
using physical models and modal analysis
Nicola J. Cairns, Mark J. Pearcy, James Smeathers, Clayton J. Adam

University of Strathclyde; Queensland University of Technology - UK/ Australia

IWISH_46: Agent Based Simulation Model For Obesity Epidemic Analysis
Agostino G. Bruzzone, Vera Novak, Francesca Madeo
MITIM DIME University of Genoa; BIDMC, Harvard Medical School; Simulation Team - Italy/ USA

Friday 2012-09-21 10:30-12:00
Room: Messe 5+6
IMAACA: Supervision System Design in Industrial Processes - Session I
Chair(s): Genevieve Tanguy, Ecole Centrale de Lille

IMAACA_13: Fault diagnosis in ncs under communication constraints: a quadrotor helicopter application
Karim Chabir, Mohamed Amine Sid, Dominique Sauter
Nancy University - France

IMAACA_38: Diagnosis of PEMFC by using statistical analysis
Zhongliang Li, Rachid Outbib, Daniel Hissel, Stefan Giurgea
 University of Aix-Marseille; University of Franche-Comte; FCAB (Fuel Cell Lab) Research Federation - France

IMAACA_17: Integrated management and optimization of the sanitation cycle by the combined use of expert systems and supervisory systems in real time operation
Marcelo De Souza, Alexandre Acácio De Andrade, Sergio Luiz Pereira
Pontifícia Universidade Católica de São Paulo; Universidade Federal do ABC-UFABC; Escola Politecnica da Universidade de São Paulo - Brazil

IMAACA_18: Voltage envelope, noise and hilbert transform
Federico Muiño, Maximiliano Carabajal, Marcela Morvidone, Carlos D'attellis, Matías Fabbro
Universidad Tecnológica Nacional; Universidad Nacional de San Martín - Argentina

IMAACA_7: Review of "fault detection, diagnosis and decision support methods" in industry
Rambabu Kandepu, Tor Inge Waag, Karl Magnus Laundal, Anis Yazidi
 Teknova AS - Norway

Friday 2012-09-21 10:30-12:00
Room: Messe 4

Friday 2012-09-21 12:00-13:30
LUNCH Co-Sponsored by Lio-Tech, CAL-TEK, MAST

Friday 2012-09-21 13:30-15:00
Room: Prater 1

EMSS/IWISH: Modeling and Simulation in Physiology and Medicine - session I

Chair(s): Maja Atanasijevic-Kunc, Univ. Ljubljana, ; Felix Breitenecker, Vienna Uiv. of Technology

EMSS_107: A modular architecture for modelling obesity in inhomogeneous populations in Austria with system dynamics – first step: a population model and how to integrate it in a disease model
Barbara Glock, Patrick Einzinger, Felix Breitenecker
Vienna University of Technology; dwh Simulation Services - Austria

EMSS_73: Optimizing ventricular work: a matter of constraints

Bernhard Hametner, Stephanie Parragh, Christopher Mayer, Johannes Kropf, Siegfried Wassertheurer
Austrian Institute of Technology GmbH; Vienna University of Technology - Austria

EMSS_72: Automated verification of cardiovascular models with continuous integration tools
Martin Bachler, Bernhard Hametner, Christopher Mayer, Johannes Kropf, Matthias Gira, Siegfried Wassertheurer
Austrian Institute of Technology GmbH; Vienna University of Technology - Austria

EMSS_67: Motivation problems in the process of mass reduction through modelling and simulation
Maja Atanasijevic-Kunc, Tina Sentocnik, Simon Tomažič, Jože Drinovec
University of Ljubljana; Medico dr. Sentočnik; University of Maribor - Slovenia

EMSS_122: The effects of transit corridor developments on the healthcare access of medically fragile vulnerable populations
Rafael Diaz, Asad Khattak, Joshua Behr, Anna Jeng, Francesco Longo, Jun Duanmu
Old Dominion University; University of Calabria - USA

Friday 2012-09-21 13:30-15:00
Room: Prater 2
DHSS: Defense and Homeland Security - Session II
Chair(s): Robert Sottilare, US Army

DHSS_8: Situation Awareness in Critical Infrastructures
Vincenza Abate, Ludovica Adacher, Federica Pascucci
Università degli Studi Roma Tre - Italy

DHSS_9: Detection of and Reaction to Cyber Attacks in a Critical Infrastructures Scenario: the CockpitCI Approach
Donato Macone, Francesco Liberati, Andrea Simeoni, Francesco Delli Priscoli, Marco Castrucci, Stefano Panzieri, Serguei Iassinovski, Michele Minichino, Ester Ciancamerla

Università di Roma "Sapienza"; Università degli Studi Roma Tre; Multitel ASBL; ENEA - Italy/ Belgium

DHSS_20: Application of UML for Risk Based Interdependencies Modelling in Critical Infrastructures
Anatolijs Zabasta, Oksana Nikiforova, Nadezhda Kunicina
Riga Technical University - Latvia

DHSS_16: The Use of Artificial Intelligence for Enhanced Network Defense
Michael Knight, Kortney Raulston, Kennard Laviers, Kenneth Hopkinson
Air Force Institute of Technology - USA

DHSS_21: CAX Methodology for Civil Protection Purposes and Civil Military Co operation
Konstantinos Tsiakalos
University of Genoa - Greece

Friday 2012-09-21 13:30-15:00

Room: Prater 3

IWISH: Modeling and Simulation for Biosciences and Bioinformatics - Session I
Chair(s): Werner Backfrieder, Upper University of Applied Sciences

IWISH_18: A new hybrid algorithm based on watershed method, confidence connected thresholding and region merging as preprocessing for statistical classification of general medical images
Gerald Zwettler, Werner Backfrieder
 Upper Austria University of Applied Sciences - Austria

IWISH_9: RANSAC-based enhancement in drug concentration predictions using support vector machine
Wenqi You, Alena Simalatsar, Giovanni De Micheli
Ecole Polytechnique Federale de Lausanne - Switzerland

IWISH_33: Investigation of the effect of drugs on solid tumours within a systems-based mathematical modelling framework
Cong Liu, J. Krishnan, Xiao Yun Xu
Imperial College London - UK

IWISH_39: Experimental and numerical studies of digital arterial elasticity by volume oscillometric analysis
Pichitra Uangpairoj, Masahiro Shibata
Shibaura Institute of Technology - Japan

Friday 2012-09-21 13:30-15:00
Room: Prater 4
HMS: Supply Chains Design and Management - Session I
Chair(s): David del Rio Vilas, University of a Coruna

HMS_20: Mesoscopic supply chain simulation
Til Hennies, Tobias Reggelin, Juri Tolujew
Fraunhofer Institute for Factory Operation and Automation IFF Magdeburg; Otto von Guericke University Magdeburg - Germany

HMS_43: Interoperable simulation for protecting port as critical infrastructures
Agostino Bruzzone, Francesco Longo, Alberto Tremori
University of Genoa; University of Calabria; Simulation Team - Italy

HMS_33: Economic assessment for a RFID application in transfusion medicine
Gianluca Borelli, Pier Francesco Orrù, Francesco Zedda
Azienda Ospedaliera G. Brotzu ; Università degli Studi di Cagliari - Italy

HMS_29: A container terminal management system
Mehdi Najib, Abdelaziz El Fazziki, Jaouad Boukachour
University of Le Havre France; Cadi Ayyad University - France/ Morocco

HMS_42: Designing two-echelon supply chain using simulation and pricing strategy
Seyed Mohammad Mahdi Kazemi, Peyman Taki, Seyed Mohamad kazemi
 Islamic Azad Univesity, Tehran - Iran

Friday 2012-09-21 13:30-15:00
Room: Messe 5+6

IMAACA: General Applications and Methodologies in Modeling and Simulation - Session I
Chair(s): Sergio Junco, Universidad National de Rosario

IMAACA_24: A study on the ecms parameter adaptation for the driver characteristic variation
Joohee Son, Taeho Park, Kanghee Won, Hyeongcheol Lee
Hanyang University - Korea

IMAACA_29: Dynamics of torque converter with lock-up clutch
Takeshi Yamaguchi, Kazuhiro Tanaka, Katsuya Suzuki
Aisin AW Co.; Kyushu Institute Technology - Japan

IMAACA_48: Interval approach for robust fault diagnosis
Mayank Shekhar Jha, Genevieve Dauphin-Tanguy, Belkacem Ould Bouamama
Ecole Centrale de Lille; Polytech-Lille - France

IMAACA_5: Modal analysis reduction of multi-body systems with generic damping
Loucas S. Louca
University of Cyprus - Cyprus

Friday 2012-09-21 13:30-15:00
Room: Messe 4

Friday 2012-09-21 15:00-15:30

COFFEE BREAK Co-Sponsored by CAL-TEK, LIO Tech Ltd and MAST - Foyer area

Friday 2012-09-21 15:30-17:00
Room: Prater 1
MAS: Simulation based Methodologies, applications and tools- Session I
Chair(s): Boris Sokolov, SPIIRAS, Academy of Sciences, Russia

MAS_28: Supervised training of conversive hidden non-markovian models: increasing usability for gesture recognition
Sascha Bosse, Claudia Krull, Graham Horton
Otto-von-Guericke-University Magdeburg - Germany

MAS_3: Developing a simulation training tool for ultrasonography
John Sokolowski, Catherine Banks, William Richards
 Old Dominion University - USA

MAS_41: CFD simulations as a tool for flow and thermal analysis in boilers of power plants
Ivan F. Galindo-García, Ana K. Vazquez-Barragan, Miguel Rossano-Román
Instituto de Investigaciones Electricas, Cuernavaca - Mexico

MAS_79: A model of a biofilter for mechanical pulping waste-water treatment
Stefano Saetta, Lorenzo Tiacci, Markku Tapola,Sara Hihnala
University of Perugia; Meehanite Technology - Italy/ Finland

MAS_9: Remarks on Qubit neuron-based quantum neural servo controller

Kazuhiko Takahashi
Doshisha University - Japan

Friday 2012-09-21 15:30-17:00
Room: Prater 2
MAS: Inventory Management Simulation . Session I
Chair(s): Adriano Solis, York University

MAS_24: Simulation of house prices for improved land valuation
Terry Bossomaier, Zahid Islam, Rod Duncan, Junbin Gao
Charles Sturt University - Australia

MAS_71: A lot-size simulation model with batch demand with special attention towards the holding costs
Gerrit K. Janssens, Roongrat Pisuchpen, Patrick Beullens
 Hasselt University; Kasetsart University; University of Southampton - Belgium/ Thailand/ UK

MAS_78: Intermittent demand forecasting and stock control: an empirical study
Adriano O. Solis, Letizia Nicoletti, Somnath Mukhopadhyay, Laura Agosteo, Antonio Delfino, Mirko Sartiano
 York University; University of Calabria; The University of Texas at El Paso - Canada/ Italy/ USA

EMSS_127: Modeling and simulation of a one-warehouse, N-retailer inventory System: reassessing a negative binomial approximation
Adriano O. Solis, Francesco Longo, Pietro Caruso, Elisa Fazzari
 York University; University of Calabria - Canada/ Italy

MAS_21: Cross-docking transhipment problem approached by non linear programming and simulation analysis
Giuseppe Aiello, Mario Enea, Cinzia Muriana
 Università degli studi di Palermo - Italy

Friday 2012-09-21 15:30-17:00
Room: Prater 3
MAS: Production systems design and Production Scheduling - Session I
Chair(s): David del Rio Vilas, Unuiversity of a Coruna

MAS_51: Description and optimization of the structure of horizontally homogeneous parallel and distributed processing systems
Tiit Riismaa
Institute of Cybernetics at Tallinn University of Technology - Estonia

MAS_11: A new design of FMS with multiple objectives using goal programming
Berna Dengiz, Yusuf Tansel Iç,, Selin Coşkun, Nil Dağsalı, Damla Aksoy, Gözde Çizmeci
 Baskent University - Turkey

MAS_30: Improvement of thermochemical finishing processes: an application of a batch tracing system
Robert Schoech, Ruth Fleisch, Christian Hillbrand
V-Research GmbH, Industrial Research and Development - Austria

MAS_65: Autonomous control in event logistics
Florian Harjes, Bernd Scholz-Reiter

University of Bremen - Germany

MAS_73: Customer/supplier requirements and behaviour modelling & simulation in service delivery
Thècle Alix, Gregory Zacharewicz, Bruno Vallespir
University of Bordeaux - France

Friday 2012-09-21 15:30-17:00
Room: Prater 4
HMS: Workshop on Modeling & Simulation in e-mobility- Session I
Chair(s): Thomas Kern , University of Applied Sciences

HMS_16: Policy evolution for large scale electric vehicle charging control
Stephan Hutterer, Michael Affenzeller, Franz Auinger
 University of Applied Science Upper Austria - Austria

HMS_13: Transformer modeling taking into account hysteresis behaviour
Wolfgang Baumgartinger, Manfred Kaltenbacher, Mario Jungwirth
 University of Applied Science Wels; Vienna University of Technology - Austria

HMS_22: Modeling rich and dynamic vehicle routing problems in Heuristiclab
Stefan Vonolfen, Michael Affenzeller, Stefan Wagner
University of Applied Science Upper Austria - Austria

HMS_38: Basic architecture of the "semantically enriched e-working platform"
Thomas Kern, Gerald Petz
 University of Applied Science Upper Austria - Austria

Friday 2012-09-21 15:30-17:00
Room: Messe 5+6
DHSS: Defense and Homeland Security - Session III
Chair(s): Gabriele Oliva, Universita' Campus Biomedico di Roma; Federica Pascucci, University of Roma 3

DHSS_3: Beyond Serious Games: Transmedia For More Effective Training & Education
Elaine M. Raybourn
Sandia National Laboratories; Advanced Distributed Learning Initiative - USA

DHSS_4: Adaptive Game-Based Tutoring: Mechanisms for Real-Time Feedback And Adaptation
Benjamin Goldberg, Keith Brawner, Heather Holden, Robert A. Sottilare
United States Army Research Laboratory - USA

DHSS_6: Considerations in the Development of an Ontology for a Generalized Intelligent Framework for Tutoring
Robert A. Sottilare
United States Army Research Laboratory - USA

DHSS_1: Underwater Warfare Simulation In Distributed System With Delta3d
Won Kyung Hwam, Yongho Chung, Young N. Na, Yongjin Kwon, Sang C. Park
 Ajou University; Agency for Defense Development - South Korea

DHSS_10: Heuristic Approach for Paths' Computing of a Marine Fleet for an Underwater Patrolling Mission
Domenico Balestrieri, Giulia Vaccaro, Francesca Lancia, Fabio Portieri

INTECS S.p.A.; Università degli Studi Roma Tre - Italy

DHSS_22: Experimentation on CIMIC and PSYOPS simulators
Agostino Bruzzone, Francesca Madeo, Claudia Frydman, Simonluca Poggi, Marina Massei, Gregory Zacharewicz
Simulation Team; DIME University of Genoa; LSIS; MAST srl; Lio Tech ltd; Liophant Simulation; IMS Bordeaux University - Italy/ France/ UK

Friday 2012-09-21 15:30-17:00
Room: Messe 4

Friday 2012-09-21 17:00-18:00
Room: Prater 1

Friday 2012-09-21 17:00-18:00
I3M Closing Ceremony

I3M Next Year

Be Ready for I3M in Greece
I3M2013 in Greece
If you are interested in being active in I3M2013 in Greece, please visit the web site www.liophant.org/i3m/i3m2013.html and/or contact the Program Chair Dr.Francesco Longo (francesco.longo@simulationteam.com)

International Journal Special Issues for I3M

The I3M Organization finalized an agreement to publish most interesting I3M papers in International Journals; the following Special Issues will include a collection of best papers submitted and presented at I3M2012:

-International Journal of Food Engineering
Special Issue on: "Modelling and Simulation of Food Processing and Operations"

-International Journal of Critical Infrastructures
Special Issue on: "Homeland security: a Control System Point of View"

-International Journal of Simulation and Process Modelling
Special Issue on: "The Future of Modeling & Simulation: Applications in Industrial Plants, Processes and Services"

-International Journal of Simulation and Process Modelling
Special Issue on: "The Future of Modeling & Simulation: Training, Experimentation and Decision Making"

-International Journal of Privacy and Health Information Management
Special Issue on: "Modeling, Simulation and Computational Methods for Privacy and Healthcare Information"

-Journal of Computational Science
Special Issue on: "Multidisciplinary Modeling and Simulation"

I3M Best Paper Awards
In the I3M Best Paper Awards will be delivered during I3M at the Gala Dinner; these are assigned by the I3M Best Paper Award International Committee and selected among the top quality papers of each Conference based on their originality, scientific quality and impact on each specific domain.

Gianni Cantice Award for Gifted Simulation Students
The "Gianni Cantice Research Award for Gifted Simulation Students" will be announced during I3M Gala Dinner and attributed to the best simulation student applicants; the Award is entitled to Col.Cantice as recognition for his long activity in Simulation; the Gianni Cantice Award Winner will receive the Award Certificate, a financial contribution and the opportunity to spend a period in a M&S Excellence Center world wide, as visiting researcher of the Simulation Team. The Master and PhD students interested, in applying for this competition, need to submit their application, as described on the web site (www.liophant.org/i3m/cantice), to Dr.Marina Massei (massei@itim.unige.it) before the deadline (September 10, 2012). For information about next edition of Gianni Cantice Award, please visit the web site www.liophant.org/i3m/cantice.

I3M Hotel and Venue
the I3M 2012 multiconference will be held at Hotel Courtyard by Marriott Wien Messe - Wien, Austria
Rooms Rates, Conditions and Reservation are available on the web site www.liophant.org/i3m

The organizing committee has arranged special rooms rates for I3M 2012 participants booking at the Hotel Courtyard by Marriott Wien Messe :
-Please Check Single and Double Room

Lunches will be provided to all conference attendees with regular full registration. You make your hotel reservation through the links on the www.liophant.org/i3m links or directly on hotel web sites
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Author and Chair Guidelines for I3M2012

On the I3M web site guidelines for Track / Session Chairs and for Authors / Presenters are available please check them in order to proper deliver your presentation in best way avoiding any inconvenience.
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I3M as Evolving Framework

Dear attendee, the whole I3M Organization is very glad for having you here and for your support to this important event; we really hope you enjoyed the conference, therefore we are looking forward to further develop and improve it; by participating in I3M it is evident that a major stronghold of this Multiconference is its capability to mix very experience people with young blood. So we will be glad if you could consider to be more involved in future events by submitting session or track proposals, by proposing new topics or by providing your availability for being candidate for paper review; in addition you can find on the web site I3M Quality Assessment Forms for providing your feedback, thanks in advance for your support.

I3M2013, Greece

I3M2013 will be held next year in Greece during September 2013. Please consider to be active and to participate in this important event by submitting a paper or even by proposing a track and/or a session to the I3M Organization and Conference Chairs; for further information please check the web site: www.liophant.org/i3m/i3m2013.html or write to I3M2013 Program Chair Francesco Longo (f.longo@unical.it)

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IGI Global Disseminator of Knowledge - International Journal of Privacy and Health Information Management (IJPHIM)
Halldale Media Group - Military Simulation and Training Magazine (MS&T)
Halldale Media Group - The Journal for Healthcare Education, Simulation and Training (MEdSim)
Euromerci - Logistics and Transportation Journal for ASSOLOGISTICA and ASSOLOGISTICA Cultura e Formazione

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Synergies & Other Opportunities

SESDE

During I3M2012, it was activated a Session of SESDE (The International Workshop on Simulation for Energy, Sustainable Development & Environment); this event will further develop during I3M2013 in Greece and you are welcome to submit proposals for tracks, sessions for the next year event

WAMS2013

WAMS2013 (the Interntaional Workshop in Applied Modeling & SImulation) will be held next year in Buenos Aires Argentina during November 2013. Please consider to be active and to participate in this thematic workshop by submitting a paper or even by proposing a track and/or a session to the WAMS Organization and Conference Chairs; for further information please check the web site: www.liophant.org/conferences/2013/wams or write to Dr.Marina Massei (marina.massei@liophant.org)

SIREN M&S Courses

The Modeling & Simulation Professional Courses are organized with scientific sponsorization of MITIM-DIPTEM University of Genoa, Simulation Team, MSC-LES and Liophant. Attendees have the opportunity to select among different M&S courses levels (i.e. Fundamentals, Regular, Advanced Educational Package) and categories (i.e. M&S, VV&A, PM and Interoperability). Each M&S course includes lecturing and exercises provided by world-wide experts, with several years of experience, from major center of excellence, i.e. MITIM-DIPTEM University of Genoa, Virginian Modeling & Simulation Center (VMASC), GrVa Universidad Federal de Rio de Janeiro, LSIS Marseille, MAST, MSC-LES, National Center for Simulation (NSC), NASA, Riga TU, UAB, University of Arizona, etc. If you are interested in next SIREN Courses please visit www.mastsrl.eu/mscourses or contact info@mastsrl.eu

Further details on I3M Conferences are available in www.liophant.org/i3m