



I3M: The 13rd International Multidisciplinary Modelling & Simulation Multiconference

General Chairs

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

Program Co-Chair

Francesco Longo - MSC-LES, DIMEG, University of Calabria, Italy

EMSS: The 28th European Modelling & Simulation Symposium,

EMSS General Chairs:

Francesco Longo, MSC-LES, DIMEG, University of Calabria, Italy
Emilio Jiménez, University of La Rioja

EMSS Program Chairs:

Loucase S. Louca, University of Cyprus, Cyprus
Lin Zhang, Beihang University, China

HMS: The 18th International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation

HMS General Chairs:

Agostino Bruzzone, DIMEG, University of Genoa, Italy
Yury Merkuryev, Riga Technical University, Latvia

HMS Program Chair:

Michael Affenzeller, Upper Austria University of Applied Sciences, Austria

MAS: The 15th International Conference on Modelling & Applied Simulation

MAS General Chairs:

Marina Massei, Liophant Simulation, Italy
Claudia Frydman, LSIS, France

MAS Program Chairs:

Fabio De Felice, University of Cassino, Italy
Adriano Solis, York University, Canada

DHSS: The 6th International Defense and Homeland Security Simulation Workshop

DHSS General Chair:

Agostino Bruzzone, MITIM DIME, University of Genoa, Italy

DHSS Program Chair

Robert Sottolare, Army Research Laboratory, USA

I_WISH: The 5th International Workshop on Innovative Simulation for Health Care

I_WISH General Chairs:

Vera Novak, BIDMC, Harvard Medical School, USA

I_WISH Program Chair:

Marco Frascio, University of Genoa, Italy

SESDE: The 4th International Workshop on Simulation for Energy, Sustainable Development & Environment

SESDE General Chair:

Janos Sebestyén Janosy, MTA EK Centre for Energy Research Hungarian Academy of Sciences, Hungary

SESDE Program Chair:

Gregory Zacharewicz, IMS Université Bordeaux, France

FOODOPS: The 2nd International Food Operations and Processing Simulation Workshop

FOODOPS General Chairs:

Giuseppe Vignali, University of Parma, Italy

FOODOPS Program Chair:

Francesco Longo, University of Calabria, Italy

I3M: The International Multidisciplinary Modelling & Simulation Multiconference involves EMSS, MAS, HMS, IMAACA, DHSS, I_WISH, SESDE, FOODOPS and related Workshops and Special Sessions; All Sessions are open to all I3M Attendees

EMSS: European Modelling & Simulation Symposium, 28th Edition, Part of I3M2016

MAS: The International Conference on Modelling & Applied Simulation, 15th Edition, Part of I3M2016

IMAACA: The International Conference on Integrated Modeling and Analysis in Applied Control and Automation, 9th Edition, Part of I3M2016

HMS: The International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, 18th Edition, Part of I3M2016

DHSS: The International Defense and Homeland Security Simulation Workshop, 6th Edition, Part of I3M2016

I_WISH: The International Workshop on Innovative Simulation for Healthcare, 5th Edition, Part of I3M 2016

SESDE: The International Workshop on Simulation for Energy, Sustainable Development & Environment, 4rd edition, Part of I3M 2016

FOODOPS: The International Food Operations and Processing Simulation Workshop, 2nd Edition, Part of I3M 2016

Special Session: I3M Special Session freely open to all the attendees (i.e. Plenary Joint Opening, I3M 2016 Special session, etc.)

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

Monday 2016-09-26 9:00-10:30

Joint I3M Opening, Room - Les Etoiles

Welcome Address I3M, Prof. Agostino G. Bruzzone, DIME, University of Genoa, Italy

Conferences, Societies and Networks Welcome

- EMSS Conference - Prof. Francesco Longo, MSC-LES, University of Calabria, Italy
- HMS Conference - Prof. Yuri Merkuryev, Riga Technical University, Latvia
- MAS Conference - Prof. Adriano Solis, York University, Canada
- IMAACA Conference - Sergio Junco, Universidad Nacional de Rosario, Argentina

- DHSS Workshop - Prof. Agostino Bruzzone, University of Genoa, Italy
- I_WISH Workshop - Prof. Werner Backfrieder, Upper Austria University of Applied Sciences, Austria
- SESDE Workshop - Prof. Janos Sebestylen Janosy, Centre for Energy Research, Hungary
- FOODOPS Workshop - Prof. Giuseppe Vignali, University of Parma, Italy
- Liophant - Dr. Marina Massei, University of Genova, Italy
- M&S Societies (IMCS, Simulation Team, MISS, MSNet) - Prof. Miquel Angel Piera, UAB, Spain
- I3M 2017 and Conference Updates, Miquel Angel Piera, Autonomous University of Barcelona

Monday 2016-09-26 10:30-11:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Monday 2016-09-26 11:00-12:30

Joint I3M Opening, Room - Les Etoiles

Plenary Speeches

Janos Sebestylen Janosy, Hungarian Academy of Sciences

Integration of Renewable Power Sources - SmartGrid

Filippo Paradiso, Bios, Italy

New Opportunities for Simulation: Healthcare Services and Nursing Homes as a service to Society

Monday 2016-09-26 12:30-14:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Monday 2016-09-26 14:00-15:30

Room: Venus

EMSS: Industrial Engineering Modeling & Simulation - Session I

Chair(s): Emilio Jimenez, University of La Rioja

EMSS_35: Improving planning and resource utilization of a shipbuilding process based on simulation
Mar Cebral-Fernandez, Diego Crespo-Pereira, Alejandro Garcia-del-Valle, Marcos Rouco-Couzo
University of A Coruña; UMI Navantia-UDC - Spain

EMSS_11: Optimization of paint shop department using discrete event simulation
Pavel Raska, Zdenek Ulrych
University of West Bohemia - Czech Republic

EMSS_34: Discrete event simulation to improve cutting-welding workshop in a shipyard
Marcos Rouco-Couzo, Diego Crespo-Pereira, Alejandro Garcia-del-Valle, Mar Cebral-Fernandez, Rosa Rios-Prado

University of A Coruña; UMI Navantia-UDC - Spain

EMSS_48: Balancing of a manufacturing workstation, using a simulation and optimization model
F.D. Chaves Almanza, A. Wellens
National Autonomous Mexico University - Mexico

EMSS_46: Paysim: a financial mobile money simulator for fraud detection
Edgar Alonso Lopez-Rojas, Ahmad Elmir, Stefan Axelsson

Blekinge Institute of Technology; The Norwegian University of Science and Technology - Sweden/ Norway

Monday 2016-09-26 14:00-15:30

Room: Minerva

EMSS: Simulation and Optimization Approaches in industry, aviation, services and transport - Session I

Chair(s): Miguel Mujica Mota, Amsterdam University of Applied Sciences

EMSS_12: No more conflicts: the development of a generic airport model in a sequence-optimization framework

P. Scala, M. Mujica Mota, D. Delahaye

Amsterdam University of Applied Sciences- Aviation Academy; Ecole Nationale de l'Aviation Civile - The Netherlands/ France

EMSS_52: A proposal for optimizing urban mobility in Mexico City based on the public transport network

Idalia Flores De La Mota, Aída Huerta Barrientos

National Autonomous Mexico University - Mexico

EMSS_32: Simulation optimization of pedestrian evacuation in mexican subway: the case of Pino Suarez station

Alma Vera-Morales, Aida Huerta-Barrientos

National Autonomous Mexico University - Mexico

EMSS_31: Simulation and optimization of the manufacturing process of e- bicycles: the case of innovaunam

Pedro González-Hernández, Aida Huerta-Barrientos

National Autonomous Mexico University - Mexico

Monday 2016-09-26 14:00-15:30

Room: Diana

MAS-EMSS: Forecast and Inventory Management

Chair(s): Adriano Solis, York University

MAS_15: A buffer allocation problem in automotive body shop

Dug Hee Moon, Dong Su Son, Ye Seul Nam, Yang Woo Shin

Changwon National University - South Korea

EMSS_49: Service level definition from forecast error cost evaluation

A. Sosa, A. Wellens

National Autonomous Mexico University - Mexico

MAS_6: Multi-objective evolutionary algorithms of correlated storage assignment strategy

Yipeng Zhang

Technical University of Munich - Germany

MAS_9: Multi-criteria decision support system coupling logistics and financial performance in inventory management

Maroua Kessentini, Narjès Bellamine Ben Saoud, Malika Charrad, Sami Sboui
Univ. Manouba; Université de Gabes; SQLI Services - Tunisie

Monday 2016-09-26 14:00-15:30

Room: Chloe

IWISH-EMSS-MAS: Modeling & Simulation in Healthcare - Session I

Chair(s): Werner Backfrieder, Upper Austria University of Applied Sciences

IWISH_3: Rehabilitation monitoring and biosignal identification using IoT-modules

Volkhard Klinger

Department of Embedded Systems FHDW Hannover - Germany

IWISH_7: Coupling brain-computer interface and electrical stimulation for stroke rehabilitation and tremor reduction in parkinson's disease

V. S. Adama, J.Hoffman, M.Bogdan

Universität Leipzig - Germany

EMSS_53: Simulation optimization for an age-based vaccines distribution strategy against the spread of influenza epidemic

Javier Lara de Paz, Idalia Flores

Universidad Nacional Autónoma de México - Mexico

MAS_16: Modelling trauma physiology for large crisis management

Alessandro Borri, Christos Dimopoulos, Simona Panunzi, Rachele Brancaleoni, Claudio Roberto Gaz, Daniele Gui, Sabina Magalini, Andrea De Gaetano

CNR-IASI Biomathematics Laboratory; European University Cyprus; Catholic University of the Sacred Heart - Italy/ Cyprus

Monday 2016-09-26 15:30-16:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Monday 2016-09-26 16:00-17:30

Room: Venus

EMSS-MAS: Industrial Engineering Modeling & Simulation - Session II

Chair(s): Emilio Jimenez, University of La Rioja

EMSS_8: Forecasting construction duration of watermain upgrade project by using discrete event simulation

Dongwoo Kim, Yi Zong, Yasser Mohamed, Simaan AbouRizk

University of Alberta - Canada

EMSS_60: Simulation system of mining works

Aleksey N. Starodubov, Vasily V. Sinoviev, Victor V. Okolnishnikov

Russian Academy of Sciences - Russia

EMSS_38: Simulation of longwall coal mining technologies

Victor V. Okolnishnikov, Sergey V. Rudometov, Sergey S. Zhuravlev, Vasily V. Sinoviev

Russian Academy of Sciences - Russia

MAS_18: Heuristic and metaheuristic simulation-based optimization for solving a hybrid flow shop scheduling problem

A. Nahhas, P. Aurich, T. Reggelin, J. Tolujew

Otto von Guericke University Magdeburg; Fraunhofer Institute for Factory Operation and Automation - Germany

Monday 2016-09-26 16:00-17:30

Room: Minerva

EMSS-MAS: Simulation and Optimization Approaches in industry, aviation, services and transport - Session II

Chair(s): Miguel Mujica Mota, Amsterdam University of Applied Sciences

EMSS_44: A simulation model for assigning secure waiting areas on subway platforms to minimize accidents

Gerardo de Jesús Portillo-Villasana, Aida Huerta-Barrientos

National Autonomous Mexico University - Mexico

EMSS_22: Simulating the assorting planning process to support the decision-making of grocery wholesalers: the mexican market case

Salutino Flores Monroy

Universidad Nacional Autónoma de México - Mexico

EMSS_41: Minimizing the impact of escalator failures in metro tacubaya subway station on user's mobility

Hector Omar Israel Bautista-Martínez, Aida Huerta-Barrientos, Gerardo de Jesús Portillo-Villasana

National Autonomous Mexico University - Mexico

MAS_2: Innovation process improvement – a best practice approach

Sameh M. Saad, Maan N. Alafeefi

Sheffield Hallam University - United Kingdom

Monday 2016-09-26 16:00-17:30

Room: Diana

SESDE-HMS: Simulation for Sustainability

Chair(s): Janos Sebestyen Janosy, Hungarian Accademy of Sciences

SESDE_12: Comparison of traditional and climate-controlled mushroom cultivation processes

F.J.Leiva-Lázaro, J.Blanco-Fernández, E.Martínez-Cámara, JI Latorre-Biel, E.Jiménez-Macías

University of La Rioja; Public University of Navarre - Spain

SESDE_5: Multi-architecture / multi-application modelling approach for hybrid electric vehicle using energetic macroscopic representation

Daniela CHRENKO, Shiyu GAN, Phillipe BOUILLOT, Luis LE MOYNE

Univ. Bourgogne Franche Comté; SODEMO Moteurs - France

SESDE_11: An approach to estimate the water footprint of the bioethanol supply chain and its dynamic simulation

Armin Trujillo-Mata, Guillermo Cortés-Robles, Cuauhtémoc Sánchez-Ramírez, Julio Blanco-Fernández, Emilio Jiménez-Macías

Orizaba Institute of Technology; University of La Rioja - Mexico/ Spain

SESDE_14: Building structure models. impact on cumulative energy demand and carbon footprint

Esteban Fraile-García, Javier Ferreiro-Cabello, Francisco J. Marrodán-Esparza, Emilio Jiménez-Macías

University of La Rioja - Spain

Monday 2016-09-26 16:00-17:30*Room: Chloe***DHSS-EMSS-HMS: Defense and Homeland Security Simulation - Session I****Chair(s): Agostino Bruzzone, University of Genoa**

DHSS_6: Modeling drug trafficking routes using potential surface analysis for the simulation of military training scenarios

Ornprapa P. Robert, Chamnan Kumsap, Ampun Janpengpen
Silpakorn University; Defence Technology Institute Thailand - Thailand

DHSS_7: DTI's modeling and simulation initiative project to strive for the hadr mission of thailand's ministry of defense

Chamnan Kumsap, Yongyoot Witheetrirong, Prakorn Pratoomma
Defence Technology Institute; Silpakorn University - Thailand

EMSS_9: A flexible and graphical operational effectiveness evaluation tool

Wei Li, Shenglin Lin, Zhizhao Liu, Ping Ma, Ming Yang
Harbin Institute of Technology - China

HMS_21: Model of advanced planner for interoperable computer interactive simulation

Agostino G. Bruzzone, Marina Massei, Riccardo Di Matteo, Gianluca Maglione
University of Genoa; Simulation Team - Italy

Tuesday 2016-09-27 9:00-10:30*Room: Venus***EMSS: Industrial Engineering Modeling & Simulation - Session III****Chair(s): Emilio Jimenez, University of La Rioja**

EMSS_30: Two time steps predictive control application to a bioprocess simulator

S Altuntaş, H Hapoğlu
Provincial Directorate of Environment and Urbanization; Ankara University - Turkey

EMSS_54: Modelling a biomass boiler using an artificial neural network

Paula Ruiz, Gorka Sorrosal, Cruz E. Borges, Ana M. Macarulla
DeustoTech; University of Deusto - Spain

EMSS_58: Modeling and simulation of the effects of thermal expansion mismatch and temperature on thermal induced stresses in modern nano pMOS

Abderrazzak El Boukili
Al Akhawayn University in Ifrane - Morocco

EMSS_64: A comparative study of hyperelastic constitutive models for an automotive component material

Rafael Tobajas, Daniel Elduque, Carlos Javierre, Elena Ibarz, Luis Gracia
University of Zaragoza - Spain

Tuesday 2016-09-27 9:00-10:30*Room: Minerva*

EMSS: Modeling & Simulation in Logistics

Chair(s): Yuri Merkuryev, Riga Technical University

EMSS_5: Scalable simulation models of railway traffic
Radek Novotny, Antonin Kavicka
University of Pardubice - Czech Republic

EMSS_19: The method of nested simulations supporting decision-making process within a mesoscopic railway simulator
Roman Diviš, Antonín Kavička
University of Pardubice - Czech Republic

EMSS_3: Dual use bicycle path network designing and exploitation environment - Velorouter
Egils Ginters, Mikelis Baltruks, Inita Sakne, Yuri Merkuryev
Riga Technical University; Sociotechnical Systems Engineering Institute - Latvia

EMSS_23: Use of web services for the localization of rolling stock with utilization technology oracle spatial
Jan Fikejz, Jan Merta, Jakub Oborník
University of Pardubice - Czech Republic

Tuesday 2016-09-27 9:00-10:30

Room: Diana

MAS-EMSS: Decision Support Systems

Chair(s): Mercedes Perez De La Parte, University of La Rioja

MAS_11: Prioritising the safety management elements through ahp model and key performance indicators
Fabio De Felice, Antonella Petrillo, Balduino Di Salvo, Federico Zomparelli
University of Cassino and Southern Lazio; University of Naples - Italy

MAS_5: A simulation model to evaluate the laundry order scheduling and effect of disruptive events in industrial laundries
Susann Arndt, Meik Hüppler, Carina Gehrs, Annegret Brandau
Otto-von-Guericke-University Magdeburg - Germany

MAS_12: Investigation into erp-based symbiotic simulation project implementation on ford engine production line: challenges, opportunities and prospects
Emmanuel Chiroma, John Ladbrook, Hassan Abdalla
University of East London; Ford Motor Company - United Kingdom

MAS_17: Discrete events simulation to improve manufacturing process of jackets offshore structures
Adolfo Lamas-Rodríguez, Diego Crespo-Pereira, Roi Sánchez-Tutor
Universidade da Coruña - Spain

Tuesday 2016-09-27 9:00-10:30

Room: Chloe

HMS: Simulation for Airports Design and Management

Chair(s): Miquel Angel Piera, Autonomous University of Barcelona

HMS_3: An efficient constraint programming model for cooperative flight departures
Nina Schefers, Dr. Juan José Ramos González, Dr. Jenaro Nosedal
Universitat Autònoma de Barcelona - Spain

HMS_13: Simulation framework for testing performance of multi-uav missions
Ernesto Santana, Romualdo Moreno, Christian Sánchez, Miquel Àngel Piera
Autonomous University of Barcelona - Spain

HMS_14: A socio-technological approach to improve the performance of the aircraft boarding process
Miquel A. Piera-Eroles, Jenaro Nosedal-Sánchez, Romualdo Moreno, Ruben Martinez, Núria Alsina
Universitat Autònoma de Barcelona; Advanced Logistics Group - Spain

HMS_19: Simulating the impacts of airport closures on airline route networks
Ali Asgary, Jenaro Nosedal, Adriano O. Solis, Francesco Longo, Luigi Emanuele Alessio, Maria Chiara Curinga
York University; University of Calabria - Canada/ Italy

Tuesday 2016-09-27 10:30-11:00

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Tuesday 2016-09-27 11:00-12:30

Room: Venus

EMSS: Modelling, Computer Simulation and Visualisation of Heritage

Chair(s): Galina Merkuryeva, Riga Technical University

EMSS_33: Preserving and managing heritage buildings in a sustainable way with integration of BIM – a review

Lina Seduikyte, Angeliki Kylili, Jolanta Sadauskiene, Paris Fokaides
Kaunas University of Technology; Frederick University - Lithuania/ Cyprus

EMSS_61: Intelligent simulation for tourism and cultural heritage management
Galina Merkuryeva, Vitaly Bolshakov, João Martins, Ricardo Gonçalves, Gumersindo Bueno Benito
Riga Technical University; Universidade Nova de Lisboa; Fundación Santa María la Real - Latvia/
Portugal/ Spain

EMSS_65: An intelligent, interactive and interoperable platform for the 21st century museums
Francesco Longo, Letizia Nicoletti, Antonio Padovano, Adriano Solis, Arianna Monzon
University of Calabria; CAL-TEK; York University - Italy/ Canada

Tuesday 2016-09-27 11:00-12:30

Room: Minerva

DHSS: Defense and Homeland Security Simulation - Session II

Chair(s): Chamnam Kumsap, Ministry of Defence Thailand

DHSS_1: Architecture-oriented combat system effectiveness simulation modeling
Yonglin Lei, Ning Zhu, Jian Yao, Zhi Zhu, Shuai Chen
National University of Defense Technology - China

DHSS_2: The proposal of security and safety management system with fuzzy logic support
Lucia Duricova, Martin Hromada, Jan Mrazek
Tomas Bata University in Zlin - Czech Republic

DHSS_3: Cyber attacks on SCADA of critical infrastructures by an hybrid testbed
Ester Ciancamerla, Benedetto Fresilli, Michele Minichino, Tatiana Patriarca
ENEA - Italy

DHSS_5: Increased safety road transporter
Jan Mrazek, Lucia Duricova, Martin Hromada
Tomas Bata University in Zlin - Czech Republic

Tuesday 2016-09-27 11:00-12:30

Room: Diana

IWISH: Modeling & Simulation in Healthcare - Session II

Chair(s): Jonata Fragomeni, University of Calabria

IWISH_2: Titanium craniofacial prostheses: a design procedure for identifying the optimal fixation system and its application to a case study

Maria Vittoria Caruso, Giuseppina Ambrogio, Luigi De Napoli, Gionata Fragomeni
University of Calabria; University of Catanzaro - Italy

IWISH_4: An active surface approach for segmentation of bone fragments in trauma surgery planning

Werner Backfrieder, Berthold Kerschbaumer, Gerald Zwettler
University of Applied Sciences Upper Austria - Austria

IWISH_6: Hybrid optimisation-simulation approach for the design and operation of an urgent care centre

A.M. Aguirre, R. Pulido, L. G. Papageorgiou, A. García-Sánchez
University College London; Universidad Politécnica de Madrid - United Kingdom/ Spain

Tuesday 2016-09-27 11:00-12:30

Room: Chloe

HMS: Simulation of Logistic Systems

Chair(s): Eleonora Bottani, University of Parma

HMS_1: Simulation research on seaport fairway capacity and its promotion measure: a case study of Jingtang port area in China

Qi Tian, Zijian Guo, Wenyuan Wang, Yun Peng
Dalian University of Technology - China

HMS_2: Discrete event system conceptual modelling for a logging company

Peter Mensah, Yuri Merkurjev, Jelena Pecherska
Riga Technical University - Latvia

HMS_6: An information fractal for supply network inventory optimisation

Sameh M. Saad, Ramin Bahadori
Sheffield Hallam University - United Kingdom

HMS_7: Assessing service quality improvement through horizontal cooperation in last-mile distribution

Adrian Serrano-Hernandez, Patrick Hirsch, Javier Faulin, Christian Fikar
Public University of Navarra; University of Natural Resources and Life Sciences - Spain/ Austria

Tuesday 2016-09-27 12:30-14:00

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Tuesday 2016-09-27 14:00-15:30

Room: Venus

EMSS: Discrete and Combined Simulation

Chair(s): Chair(s): Gasper Music, University of Ljubljana; Thomas Wiedemann, HTW Dresden FB Informatik

EMSS_56: Mesoscopic simulation models for the automotive industry
Andreas Hennig, Tobias Reggelin, Daniel Wolff
Otto von Guericke University Magdeburg; INPRO - Germany

EMSS_25: An advanced approach to simulation of super-wide bandwidth information and communication systems combining microwave and photonic industrial technologies
M.E. Belkin, V. Iakovlev, A. Sigov, Y. Tyschuk, V. Golovin
Moscow State Technological University; RTI Research S.A.; Sevastopol State University - Russian Federation/ Switzerland

EMSS_40: Fuzzy modelling of air preparation stage in an industrial exhaust air treatment process
Aleš Šink, Gašper Mušič
Inea d.o.o.; University of Ljubljana - Slovenia

EMSS_63: Using NodeJS for discrete simulation in a web-based environment
Thomas Wiedemann
University of Applied Science Dresden - Germany

Tuesday 2016-09-27 14:00-15:30

Room: *Minerva*

IMAACA: Industrial Applications

Chair(s): Sergio Junco, Universidad Nacional de Rosario

IMAACA_2: Power distribution substations and distribution network infrastructure's control tool development with wireless sensors network
Anatolijs Zabasta, Kaspars Kondratijevs, Nadezhda Kunicina
Riga Technical University - Latvia

IMAACA_10: Agricultural Robotic Candidate Overview using Co-model Driven Development
Martin Peter Christiansen, Peter Gorm Larsen, Rasmus Nyholm Jørgensen
Aarhus University; Agro Intelligence - Denmark

IMAACA_12: HEVs with reconfigurable architecture: a novel design and optimal energy management
Mauro G. Carignano, Norberto M. Nigro, Sergio Junco
Universidad Nacional de Rosario; CIMEC - Argentina

IMAACA_13: Closed loop system identification using genetic algorithm
Lucchesi Alejandro, Campomar Guillermo, Zanini Aníbal
Universidad Tecnológica Nacional; Universidad de Buenos Aires - Argentina

IMAACA_15: Non-uniform finite segment representation and reduction of a cantilever beam model
Loucas S. Louca
University of Cyprus - Cyprus

Tuesday 2016-09-27 14:00-15:30

Room: *Diana*

MAS: Simulation in Industry, Logistics and Retail

Chair(s): Diego Crespo Pereira, University of La Coruna

MAS_7: Browsing or buying: adding shop dynamics and additional mall visit constraints in regional versus city mall simulations

Steven D'Alessandro, Roderick Duncan, Terry Bossomaier, Daniel Murphy
University Panorama Avenue - Australia

MAS_22: Automated exchange system between simulation, visualization and construction tools

David Weigert
Otto-von-Guericke-Universität Magdeburg - Germany

MAS_8: Optimal structure coordination in supply chain (SC): principles, models, methods and algorithms for the sc structure dynamics control

Boris Sokolov, Semyon Potryasaev, Nikolay Mustafin, Sergey Nemykin, Vladimir Kalinin
SPIIRAS; ITMO University ; The Arsenal Design Bureau named after M.V. Frunze Federal State Unitary Enterprise; Military-space academy named after A.F. Mozhaisky - Russia

MAS_13: Process driven framework for augmented reality in a manufacturing environment

Krzysztof J. Rechowicz, Hector Garcia
Old Dominion University - USA

Tuesday 2016-09-27 14:00-15:30

Room: Chloe

Special Session: I3M 2017 and MISS-MSNet Board of Directors Meeting

Chair(s): Francesco Longo, University of Calabria; Miquel Angel Piera, Autonomous University of Barcelona

Tuesday 2016-09-27 15:30-16:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Tuesday 2016-09-27 16:00-17:30

Room: Venus

EMSS: Advanced Simulation for Logistics and Manufacturing

Chair(s): Mercedes Perez De La Parte, University of La Rioja

EMSS_37: A simulation-based tool to support decision-making in logistics design of a cans packaging line

Victoria G. Achkar, Valentina Bär, Franco Cornú, Carlos A. Méndez
INTEC (UNL-CONICET); Facultad de Ingeniería Química - Argentina

EMSS_4: Development and simulation-based evaluation of an algorithm for the retrieval-in-sequence for shuttle systems

T. Lienert, W. A. Günthner
Technical University of Munich - Germany

EMSS_43: Automatic simulation models generation of warehouses with milkruns and pickers

António Vieira, Luís S. Dias, Guilherme B. Pereira, José A. Oliveira, M. Sameiro Carvalho, Paulo Martins
University of Minho - Portugal

EMSS_50: Supplier selection: single sourcing vs. dual sourcing with sustainability considerations

Mistral Accorsi, Roberto Montanari, Marta Rinaldi, Piera Centobelli, Eleonora Bottani
FRANCHI S.r.l.; University of Parma ; University of Naples Federico II - Italy

Tuesday 2016-09-27 16:00-17:30*Room: Minerva***IMAACA: Bond Graph Modeling & Non Linear Controls****Chair(s): Sergio Junco, Universidad Nacional de Rosario**

IMAACA_3: Disturbance rejection with derivative state feedback

Christophe Sueur

Ecole Centrale de Lille - France

IMAACA_8: True bond graph formulation for compressible thermofluid duct flows

J. L. Baliño

Universidade de São Paulo - Brazil

IMAACA_9: Robust stabilization of DC-DC buck converter via bond-graph prototyping

Sergio Junco, Juan Tomassini, Matías Nacusse

Universidad Nacional de Rosario - Argentina

IMAACA_11: A LV-MPC strategy for trajectory tracking in batch processes

José L. Godoy, Jacinto L. Marchetti, Jorge R. Vega

INTEC, CONICET – UNL; FRFSF-UTN - Argentina

IMAACA_1: Highly non linear rigid flexible manipulator state estimation using the extended and the unscented kalman filters

Mohammed Bakhti, Badr Bououlid Idrissi

Moulay Ismail University - Morocco

Tuesday 2016-09-27 16:00-17:30*Room: Diana***FOODOPS-SESEDE: Food Production Simulation****Chair(s): Giuseppe Vignali, University of Parma**

FOODOPS_16: Petri net model of a production process for agaricus bisporus mycelium

JI Latorre-Biel, E.Jiménez-Macías, M Pérez de la Parte, FJ Leiva-Lázaro, E.Martínez-Cámara, J.Blanco-Fernández

Public University of Navarre; University of La Rioja - Spain

FOODOPS_17: Petri net modelling and operational optimization of a facility for the preparation, cultivation and production of common mushroom (agaricus bisporus)

J.I. Latorre-Biel, E. Jiménez-Macías, M.Pérez de la Parte, F.J. Leiva-Lázaro, E. Martínez-Cámara, J.Blanco-Fernández

Public University of Navarre; University of La Rioja - Spain

SESEDE_6: Modeling mechanical damage to corn seeds

Feizollah Shahbazi

Lorestan University - Iran

SESEDE_8: Analysis and evaluation a WEEE management system in Italy: a simulation study

Roberto Montanari, Marta Rinaldi, Teresa Murino, Liberatina C. Santillo, Eleonora Bottani

University of Parma ; University of Naples - Italy

Tuesday 2016-09-27 16:00-17:30*Room: Chloe***Special Session: Simulation Exploration Experience, SEE 2016**

Chair(s): Agostino Bruzzone, University of Genoa

MAS_24: Using the hla standard in the context of an international simulation project: the experience of the "smashteam"

Alberto Falcone, Alfredo Garro
University of Calabria - Italy

Social Event

Tuesday 2016-09-27 18:30-23:00

19:30 I3M Gala Dinner @ Golden Bay Beach Hotel

During Gala Dinner the I3M Best Paper Awards will be presented

Wednesday 2016-09-28 9:00-10:30

Room: Venus

EMSS: Modelling and Simulation Approaches for Education and Security

Chair(s): Miguel Mujica Mota and Paolo Scala, Amsterdam University of Applied Sciences

EMSS_24: Emulation as part of an integrated logistics learning environment

Sebastian Langer, Wladimir Hofmann, Sebastian Lang, Tobias Reggelin, David Weigert
Otto-von-Guericke University - Germany

EMSS_15: Process simulation as support in learning theoretical-practical within the lean manufacturing laboratory of UTFV

Carlos Quintero Aviles, Wendy Guerrero Coronel, Omar A. González Manzanares
Universidad Nacional Autónoma de México; Technological University Fidel Velázquez - Mexico

EMSS_18: Radio frequency safety device applied to chair children in cars

Robson da Cunha Santos, Karina Barros de Oliveira, Marcos Antônio Cruz Moreira, Severino Joaquim Correia Neto, Gerson Gomes Cunha
Fluminense Federal Institute; Estácio de Sá University; Federal University of Rio de Janeiro - Brazil

EMSS_29: Performance of FDS versions 5 and 6 in passenger car fire computer simulation

P.Weisenpacher, J.Glasa, V.Sipkova
Slovak Academy of Sciences - Slovakia

Wednesday 2016-09-28 9:00-10:30

Room: Minerva

MAS-HMS-DHSS: Human and Social Behavior Modeling & Simulation

Chair(s): Antonio Padovano, University of Calabria

MAS_21: Methodological and technical basis for interdisciplinary investigation in the field of cyber-physical-socio systems

Boris Sokolov, Semyon Potryasaev, Karim Benyamna, Irina Sokolova, Dmitri Ivanov
SPIIRAS; ITMO University; St. Petersburg University; Berlin School of Economics and Law - Russia/
Germany

HMS_18: Pedestrian social groups modeling & simulation: a state of the art

Elvezia Maria Cepolina, Federico Menichini
University of Pisa - Italy

DHSS_10: Human behavior modeling: a state of the art
Antonio Padovano, Letizia Nicoletti, Marco Vetrano, Francesco Pasquale Vartuli
University of Calabria; CAL-TEK - Italy

Wednesday 2016-09-28 9:00-10:30

Room: Diana

HMS: Intermodal and Urban Logistics Modeling & Simulation

Chair(s): Manfred Gronalt, Boku University

HMS_5: Simulating the impact of inter-regional rail disruptions
Christian Fikar, Manfred Gronalt
University of Natural Resources and Life Sciences - Austria

HMS_9: Multimodal freight transport model for infrastructure analysis
Rosa Rios-Prado, Diego Crespo-Pereira, Alejandro García-Del-Valle
Universidade da Coruña - Spain

HMS_12: Comparison between a macro and a des approach to the transport mode choice problem
Diego Crespo-Pereira, Rosa Rios-Prado, Óscar de Gregorio-Vicente
Universidade da Coruña; Consultrans. S.A - Spain

HMS_15: Urban logistics: the role of urban consolidation centre for the sustainability of transportation systems
Stefano Saetta, Valentina Caldarelli
Università di Perugia - Italy

Wednesday 2016-09-28 9:00-10:30

Room: Chloe

Special Session: SISOM Project

Chair(s): Francesco Longo, University of Calabria, Giuseppe Vignali, University of Parma; Luciano Di Donato, INAIL

FOODOPS_18: Feasibility study of an Augmented Reality application to enhance the operators' safety in the usage of a fruit extractor
S. Spanu, M. Bertolini, E. Bottani, G. Vignali, L. Di Donato, A. Ferraro, F. Longo
University of Parma; INAIL; University of Calabria - Italy

EMSS_67: Virtual and augmented reality as enablers for improving the service on distributed assets
Agostino G. Bruzzone, Marina Massei, Gianluca Maglione, Matteo Agresta, Giulio Franzinetti, Paolo Porro, Antonio Padovano
University of Genoa; Simulation Team; G2P Scenario Solutions - Italy

EMSS_66: Augmented reality and mobile technologies for maintenance, security and operations industrial facilities
Agostino Bruzzone, Francesco Longo, Letizia Nicoletti, Marco Vetrano, Luigi Bruno, Alessandro Chiurco, Caterina Fusto, Giuseppe Vignali
University of Genoa; University of Calabria; CAL-TEK; University of Parma - Italy

Wednesday 2016-09-28 10:30-11:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE**Wednesday 2016-09-28 11:00-12:30***Room: Venus***EMSS-MAS: Distributed, Interoperable and Parallel Simulation****Chair(s): Miquel Angel Piera, Autonomous University of Barcelona**

EMSS_6: HLA listener – A gui driven mapping of HLA standard services
Mostafa Ali, Yasser Mohamed
University of Alberta - Canada

EMSS_14: Interactive distributed simulation realised as a web application
Stepan Kartak
University of Pardubice - Czech Republic

EMSS_13: High-performance web simulation
Jan Voracek
University of Pardubice - Czech Republic

MAS_25: Developing an enterprise operating system (EOS) with the federated interoperability approach
Joseph Rahme Youssef, Gregory Zacharewicz, David Chen, Zhiying Tu
University of Bordeaux; Harbin Institute of Technology - France/ China

EMSS_47: Analysis and evaluation of performance issues of parallel software on multi-core processors
Franz Wiesinger, Mustafa Tunca, Michael Bogner
University of Applied Sciences Upper Austria - Austria

Wednesday 2016-09-28 11:00-12:30*Room: Minerva***FOODOPS: Food Process Simulation****Chair(s): Giuseppe Vignali, University of Parma**

FOODOPS_1: Modes for predication the mass of green bell pepper fruit with some physical characteristics
Feizollah Shahbazi, Satar Rahmati
Lorestan University - Iran

FOODOPS_11: Lifecycle modelling of an innovative durum wheat debranner
Davide Marchini, Roberto Montanari, Eleonora Bottani, Giorgia Tagliavini, Simona Digiuni
University of Parma - Italy

FOODOPS_13: CFD simulation of a co-rotating twin-screw extruder: validation of a rheological model for a starch-based dough for snack food
Giorgia Tagliavini, Federico Solari, Roberto Montanari
University of Parma - Italy

FOODOPS_14: Modelling and simulation of nitrogen injection in vegetable olive oil
Filippo Ferrari, Simone Spanu, Giuseppe Vignali
University of Parma - Italy

Wednesday 2016-09-28 11:00-12:30

Room: Diana

Special Session: M&S for Disaster Prevention and Relief

Chair(s): Agostino Bruzzone, University of Genoa

DHSS_13: Modeling, interoperable simulation and serious games as an innovative approach for disaster relief

Agostino G. Bruzzone, Marina Massei, Riccardo Di Matteo, Matteo Agresta, Giulio Franzinetti, Paolo Porro
University of Genoa; Simulation Team; G2P Scenario Solutions - Italy

SESDE_15: A decision support system for disasters prevention in urban areas

Agostino G. Bruzzone, Marina Massei, Matteo Agresta, Giuseppina Murino
University of Genoa; Simulation Team - Italy

Wednesday 2016-09-28 11:00-12:30

Room: Chloe

SESDE: Renewable Energy Systems

Chair(s): Janos Sebestyen Janosy, Hungarian Accademy of Sciences

SESDE_7: A complex model for forest ecosystem state assessment based on remote sensing data: case study in Baikalsky Nature Reserve

O. Grigorieva, O. Brovkina, V. Mochalov, Y. Akhtman, V. Zelentsov, S. Potryasaev, I. Kozyr, N. Belova
St. Petersburg Institute for Informatics and Automation of RAS; Global Change Research Institute;
GAMAYA company; Baikalsky State Nature Biosphere Reserve - Russia/ Czech Republic/ Switzerland

SESDE_9: Including reliability in the analysis of market driven renewable energy systems with storage

Pedro Mateo, Cristina Azcárate, Fermín Mallor
University of Zaragoza; Public University of Navarre - Spain

SESDE_10: Eco-model for dc electrical systems in standalone buildings

Tony Castillo C., Ana M. Macarulla, Oihane Kamara, Cruz E. Borges
University of Deusto; DeustoTech - Deusto Foundation; University of Oriente - Spain/ Venezuela

SESDE_13: Analysys of spanish self-consumption normative: profitability based on consumption profiles

P. Escobar-Forján, E. Jiménez-Macías, E. Martínez-Cámara, J.L. García-Alcaraz, J.C. Sáenz-Díez
University of La Rioja; Autonomous University of Ciudad Juarez - Spain/ Mexico

Wednesday 2016-09-28 12:30-14:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Wednesday 2016-09-28 14:00-15:30

Room: Venus

EMSS: Soft Computing Modeling & Simulation

Chair(s): Michael Affenzeller, Upper Austria University of Applied Sciences

EMSS_10: A tree-search based heuristic for a complex stacking problem with continuous production and retrieval

Sebastian Raggl, Beham Andreas, Fabien Tricoire, Michael Affenzeller
University of Applied Sciences Upper Austria; Johannes Kepler University Linz; University of Vienna - Austria

EMSS_20: Analysis of uncertainty in engineering design optimization problems
Philipp Fleck, Michael Kommenda, Michael Affenzeller, Thorsten Prante
University of Applied Sciences Upper Austria; Johannes Kepler University Linz; V-Research GmbH - Austria

EMSS_21: Generation of dispatching rules for job sequencing in single-machine environments
Johannes Karder, Andreas Scheibenpflug, Stefan Wagner, Michael Affenzeller
University of Applied Sciences Upper Austria; Johannes Kepler University - Austria

EMSS_55: Comparison of PSO and DE in the task of optimal control of chaotic lozi map
Roman Senkerik, Michal Pluhacek, Ivan Zelinka, Adam Viktorin
Tomas Bata University in Zlin; Technical University of Ostrava - Czech Republic

EMSS_2: Using pipeline and binary-tree as CPANS for solving the sorting problem. A comparative study
M. Rossainz-López, Manuel I. Capel, O. Carrasco-Limón, B. Sánchez-Rinza
Autonomous University of Puebla; University of Granada - Mexico/ Spain

Wednesday 2016-09-28 14:00-15:30

Room: Minerva

FOODOPS: Simulation for Food Production and Supply Chain

Chair(s): Eleonora Bottani, University of Parma

FOODOPS_3: Applying artificial neural network modeling for predicting postharvest loss in some common agrifood commodities

Adesoji Matthew Olaniyan, Abdulhmeed Babatunde Owolabi

Federal University; Nigerian Stored Products Research Institute - Nigeria

FOODOPS_2: Discrete event simulation for sustainable batch production in food processing

Mohamed Elmasry, FatmaTarek

Qatar University - Qatar/ Egypt

FOODOPS_15: Joining simulation and situation awareness for an italian production system

Massimo De Falco, Vincenzo Loia, Luigi Rarità, Stefania Tomasiello

University of Salerno - Italy

FOODOPS_7: Mathematical modeling of microwave assisted fluidized bed drying of hazelnuts

Narjes Malekjani, Zahra Emam-Djomeh, Seyed Hassan Hashemabadi, Gholam Reza Askari

University of Tehran; Iran University of Science and Technology - Iran

Wednesday 2016-09-28 14:00-15:30

Room: Diana

DHSS: Defense and Homeland Security Simulation - Session III

Chair(s): Agostino Bruzzone, University of Genoa

DHSS_11: An agent-based modeling and simulation tool for estimation of forced population displacement flows in Iraq

Ali Asgary, Adriano O. Solis, Francesco Longo, Jenaro Nosedal, Maria Chiara Curinga, Luigi Emanuele Alessio

York University; University of Calabria - Canada/ Italy

DHSS_8: A model to describe hybrid conflict environments

Erdal Cayirci, Agostino Bruzzone, Francesco Longo, Hakan Gunneriussor
FMV Işık University; University of Genoa; University of Calabria; Swedish Defense University - Turkey/
Italy/ Sweden

DHSS_12: Simulation of Manned & Autonomous Systems for Critical Infrastructure Protection
Agostino G. Bruzzone, Marina Massei, Gianluca Maglione, Riccardo Di Matteo, Giulio Franzinetti
University of Genoa; Simulation Team - Italy

DHSS_9: Combined approach for emergency management using AHP and system dynamics
Francesco Longo, Letizia Nicoletti, Antonio Padovano, Nicola Cersullo, Beatrice Zaccaro, Fabio De Felice,
Antonella Petrillo
University of Calabria; CAL-TEK; University of Cassino; Parthenope University of Naples - Italy

Wednesday 2016-09-28 15:30-16:00

COFFEE BREAK Co-Sponsored by CAL-TEK, MAST, LIO-TECH, SIM4FUTURE

Wednesday 2016-09-28 16:00-17:30

Room: Venus

I3M Closing Ceremony

Chair(s): Agostino Bruzzone, University of Genoa; Francesco Longo, University of Calabria

I3M Next Year

Be Ready for I3M in Cyprus

I3M2017 in Barcelona, Spain

If you are interested in being active in I3M2017 in Barcelona, Spain please visit:

www.msc-les.org/conf/i3m2017

and/or contact the Program Chair Dr.Francesco Longo (f.longo@unical.it)

International Journal Special Issues for I3M

The I3M Organization has finalized an agreement to publish most interesting I3M papers in International Journals and to provide the opportunity to I3M authors to submit papers on International journals featuring Special Issues on simulation topics. The following Special Issues will include a collection of best papers submitted and presented at I3M or will feature topics in the area of Modeling & Simulation

-International Journal of Food Engineering

Special Issue on: "Modeling & Simulation of food processing and operations"

-International Journal of Simulation and Process Modelling

Special Issue on: "New Advances of Modeling & Simulation for business processes, Production, services and supply chains"

-International Journal of Simulation and Process Modelling

Special Issue on: "Recent Developments of simulation theories, methodologies, techniques and tools"

-International Journal of Service and Computing-Oriented Manufacturing

Special Issue on: "Advanced Computing and Simulation based Manufacturing"

-International Journal of Privacy and Health Information Management

Special Issue on: "M&S technologies and methodologies for complex real-world systems design and management"

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 the I3M Opening Ceremony 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, 2016). 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 2016 multiconference will be held at Golden Bay Beach Hotel, Larnaca, Cyprus.
Further Information are available on the web site www.msc-les.org/conf/i3m2016

The Golden Bay Beach Hotel,
Dekelia Road
Tel +357 24645444
Fax +357 24644844
Email: gbadmin@goldenbay.com.cy
URL: www.goldenbay.com.cy/en

Directions to Golden Bay Beach Hotel :

The Golden Bay Beach Hotel is perfectly situated at the edge of the tourist part of Larnaca, right on a long and wide stretch of fine and clear sandy beach, 10 km from the town center, just 15 km from Larnaca International Airport and 30 minutes from the capital city of Nicosia.

Directions to The Golden Beach Hotel

The Golden Bay Beach Hotel can arrange transportation upon guest's request, whether it is private taxis for a single person or a big bus for 22 people.

TAXI TRANSFER: Price 25,00 € per taxi per way . Can be shared between 4 persons if arrival or departure time is the same.

There is also a public bus service, which stops directly in front of the hotels that can take you into town and back, the times for the buses vary according to season, it is provided from the front desk.

The Hotel reservation form is available in the conference website at: http://www.msc-les.org/conf/i3m2016/index_file/ConferenceHotel.htm

A Taxi Service on demand is also available: please check the conference website for additional information at: http://www.msc-les.org/conf/i3m2016/index_file/ConferenceHotel.htm

Lunches, coffee breaks and a gala dinner will be provided to all conference attendees with regular full registration.

Author and Chair Guidelines for I3M2016

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.

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.

I3M2017, Barcelona, Spain

I3M2017 will be held next year in Cyprus, September 2017. 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.msc-les.org/conf/i3m2017 or write to I3M2017 Program Chair Francesco Longo (f.longo@unical.it)

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SAGE - Simulation Transaction of SCS
IGI Global Disseminator of Knowledge - International Journal of Privacy and Health Information Management (IJPHIM)
Halldale - The Journal of Healthcare, Education, Simulation and Training
Halldale - The Military Simulation and Training Magazine
De Gruyter - International Journal of Food Engineering

Synergies & Other Opportunities

WAMS 2016

WAMS 2016, the International Workshop in Applied Modeling & Simulation will be held in Cagliari, Italy, November 3-4, 2016. Please consider to be active and to participate in this thematic workshop; for further information please check the web site: <http://www.msc-les.org/conf/wams2016> or write to Dr. Marina Massei (marina.massei@liophant.org)

SIREN M&S Courses

The Modeling & Simulation Professional Courses are organized with scientific sponsorship of MITIM-DIME 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.mastssl.eu/mscourses or contact info@mastssl.eu

SILENI

SILENI (Simulation LEarning iNitiative) is an initiative devoted to promote M&S applied to real problems with special attention to Defense and Industry; SILENI promotes Seminars, Courses and Lectures on application of M&S. The name SILENI (Simulation LEarning iNitiative) is inspired by Greek mythology where Sileni (companions of Dionysus) were said to possess special knowledge and power of prophecy such as Modeling & Simulation. If you are interested in next SILENI Initiatives and Seminars please visit www.liophant.org/sileni or contact info@liophant.org

***Further details on I3M Conferences are available in www.liophant.org/i3m,
www.msc-les.org/conf/i3m2016***