



I3M Multiconference Program

I3M: The 8th International Mediterranean & Latin American Modelling Multiconference

General Chair

Agostino G. Bruzzone - McLeod Institute of Simulation Science, Genoa Center - University of Genoa, Italy
 Miquel Angel Piera - McLeod Institute of Simulation Science, Spanish Center – Universitat Autònoma de Barcelona, Spain

Program Chair

Francesco Longo - MSC-LES, Italy

EMSS: The 23rd European Modelling & Simulation Symposium,

EMSS General Chairs:

Francesco Longo, MSC-LES, M&SNet Center, University of Calabria, Italy
 Priscilla Elfrey, Kennedy Space Center, NASA, USA

EMSS Program Chairs:

Michael Affenzeller, Upper Austrian University of Applied Sciences, Austria
 Osman Balci, Virginia Tech, VA, USA

HMS: The 13th International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation

HMS General Chairs:

Agostino Bruzzone, MISS - Genoa Center, University of Genoa, Italy
 Yury Merkuriev, Riga Technical University, Latvia

HMS Program Chair:

Miquel Angel Piera, MISS - Spanish Center, Univ. Autònoma de Barcelona, Spain

MAS: The 10th International Conference on Modelling & Applied Simulation

MAS General Chairs:

Claudia Frydman, LSIS, Domaine Universitaire de Saint-Jerôme France
 Mike McGinnis, University of Nebraska, USA

MAS Program Chairs:

Marina Massei, Liophant Simulation

Gregory Zacharewicz, IMS Université Bordeaux 1, France

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, Director of the M&S Net

John A. Sokolowski, Director of the Virginia Modeling, Analysis and Simulation Center, VA, USA

DHSS Program Chair:

Wayne Buck, HQ Supreme Allied Commander Transformation, USA

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

EMSS: European Modelling & Simulation Symposium, 23rd Edition, Part of I3M2011

MAS: The International Conference on Modelling & Applied Simulation, 10th Edition, Part of I3M2011

IMAACA: The 5th International Conference on Integrated Modeling and Analysis in Applied Control and Automation, Part of I3M2011

HMS: The International Conference on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, Part of I3M2011

DHSS: The International Defense and Homeland Security Simulation Workshop, Part of I3M2011

Workshops: Special Sessions

JS: Joint Session I3M/DHSS & CAX Forum freely open to all the attendees (i.e. Plenary Joint Opening)

I3M Event: Special I3M Event is open only to I3M / DHSS/ EMSS/ HMS/ IMAACA/ MAS Attendees; CAX Forum Attendees need to pay ticket at I3M Registration Desk for Getting Access to the Event

CAX Forum: CAX Forum Sessions are open to CAX Forum Attendees and also to I3M / DHSS/ EMSS/ HMS/ IMAACA/ MAS Attendees, if not classified contents are presented

CAX Event: Special CAX Forum Event is open only to CAX Forum Attendees; I3M / DHSS/ EMSS/ HMS/ IMAACA/ MAS Attendees need to pay ticket at CAX Forum Registration Desk for Getting Access to the Event

Monday, September 12, 2011 9:00-10:30

Joint I3M and CAX Forum Opening - Leptis Magna I-II Gran Ballroom

Welcome Address I3M, Prof. Agostino G. Bruzzone, MISS DIPTM

Welcome Address, Col. Francesco Mastrorosa, M&S COE

-Italian MoD Address, Rear Admiral Ruggiero Di Biase, Italian Defence General Staff

Conference Welcome

-CAX Forum - Prof. Erdal Cayirci, ACT

-EMSS - Prof. Francesco Longo, MSC-LES

-HMS - Prof. Yuri Merkuriev, MIK Riga TU

-MAS Conference - Prof. Gregory Zacharewicz, IMS Université Bordeaux 1, France

-IMAACA - Prof. Sergio Junco, Rosario University

-DHSS Address - Prof. John Sokolowski, VMASC ODU

Welcome of Societies & Networks

-I_M_CS - Prof. Miquel Angel Piera, UAB Barcelona

-Liophant - Dr. Marina Massei, MISS DIPTM

-MISS - Prof. Gerson Cunha, GRVA LAMCE COPPE UFRJ

-Simulation Team - Dr. Alberto Tremori, University of Genoa

-MIMOS - Dr. Davide Borra, No Real

-M&S Net - Prof. Claudia Frydman, LSIS Marseille

Monday, September 12, 2011 10:30-11:00

COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar

Monday, September 12, 2011 11:00-12:30

Joint I3M and CAX Forum Opening - Leptis Magna I-II Gran Ballroom

Plenary Speeches:

Supply Chain Dynamics: Simulation Based Training & Education

-Yuri Merkuriev, Director of MIK, Riga TU

Human Behavior Modeling as an Enabling Technology for Our World Challenges

-Agostino G. Bruzzone, Director of M&S Net

Health Care and Medicine as Opportunity for M&S

-Joseph Rosen, Dartmouth Hitchcock Medical Center

Hymn to the Fallen and National Anthem by Italian Army Band

Monday, September 12, 2011 11:00-12:30

LUNCH Co-Sponsored by CAE, CAL-TEK, MAST

Monday, September 12, 2011 13:30-15:00

Room: Massalia I

EMSS: Simulation in Healthcare Workshop - Session 1

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

EMSS_29: Side Differences in MRI-Scans In Facial Palsy: 3-D Modeling, Segmentation And Gray Value Analysis

Paolo Gargiulo, Carsten Michael Klingner, Egill A. Friðgeirsson, Hartmut Peter Burmeister, Gerd Fabian Volk, Orlando Guntinas-Lichius

University Hospital Landspítali; University of Reykjavik; Hans Berger Clinic for Neurology University Hospital Jena Friedrich-Schiller-University; Institute of Diagnostic and Interventional Radiology University Hospital Jena Friedrich-Schiller-University; University Hospital Jena Friedrich-Schiller-University - Italy/ Iceland

EMSS_31: Accelerated fully 3D iterative reconstruction in SPECT

Werner Backfrieder, Gerald Zwettler

University of Applied Sciences Upper Austria, Institute of Software Engineering, Campus Hagenberg - Austria

EMSS_33: Gyrus And Sulcus Modelling Utilizing A Generic Topography Analysis Strategy For Processing Arbitrarily Oriented 3d Surfaces

Gerald Zwettler, Werner Backfrieder

School of Informatics Communications/Media, Upper Austria University of Applied Sciences; Bio- and Medical Informatics, Research and Development Department, Upper Austria University of Applied Sciences - Austria

EMSS_42: Effect of Reject Option on Classifier Performance

Stephan Dreiseitl, Melanie Osl

Upper Austria University of Applied Sciences at Hagenberg; Division of Biomedical Informatics, UCSD - Austria/ USA

EMSS_45: Providing Semantic Interoperability for Integrated Healthcare Using a Model Transformation Approach

Barbara Franz, Herwig Mayr

Upper Austria University of Applied Sciences, Research Center Hagenberg; Upper Austria University of Applied Sciences, Department of Medical Informatics and Bioinformatics - Austria

Monday, September 12, 2011 13:30-15:00

Room: Massalia II

EMSS: Industrial Processes and Engineering MS - Session 1

Chair: Cesar De Prada, Universidad de Valladolid, Spain

EMSS_148: Service Optimization For System-Of-Systems Based On Pool Scheduling And Inventory Management Driven By Smart Simulation Solutions

Agostino Bruzzone, Marina Massei, Enrico Bocca

MISS DIPTTEM University of Genoa; Simulation Team - Italy

EMSS_63: Revisitation Of The Simulation Methodologies And Applications In Manufacturing

T. Radha Ramanan, Ihsan Sabuncuoglu

Mechanical Engineering Department, National Institute of Technology
Calicut; Department of Industrial Engineering, Bilkent University - India/ Turkey

EMSS_66: Advanced Container Transportation Equipment using Transfer Robot and Alignment System
Young Jin Lee, Dong Seop Han, Dae woo Kang, duk Kyun Lee, Geun Choi, Kwon Soon Lee
Korea Aviation Polytechnic College; Dong A University; Bumchang Eng. Co., Ltd - South Korea

EMSS_137: Business Process Simulation for Management Consultants: A DEVS-based Simplified
Business Process Modelling Library
Igor Rust, Deniz Cetinkaya, Mamadou Seck, Ivo Wenzler
Systems Engineering Group; Faculty of Technology, Policy, Management, Delft University of Technology;
Accenture Nederland - The Netherlands

EMSS_37: 3D Physics Based Modeling and Simulation of Intrinsic Stress in SiGe for Nano PMOSFETs
Abderrazzak EL boukili
Al Akhawayn University - Morocco

Monday, September 12, 2011 13:30-15:00

Room: Mylasa

**MAS: Modeling and Simulation in Food, Beverage and Perishable Goods Industry -
Session 1**

Chair: Andrea Grassi, University of Modena and Reggio Emilia, Italy

MAS_30: Modelling noni (*Morinda citrifolia* L) pulp spray drying using a crossed mixture-process design
and feed optimization

Eliosbel Márquez González, Débora Castro Espín, Margarita Núñez de Villavicencio, José Luis Rodríguez
Food Industry Research Institute, Cuba; Finlay Institute - Cuba

MAS_35: Release Kinetics of Cardamom Oil From Microcapsules Prepared By Spray And Freeze Drying
Masoud Najaf Najafi, Rassoul Kadkhodae
Institute of Scientific - Applied Higher Education Jihad-e- Agriculture, Iran; Department of Food
Technology, Khorasan Research Institute for Food Science and Technology, Mashhad - Iran

MAS_97: A Multi-Item Multi-Rack Approach for Designing LIFO Storage Systems: a Case Study from the
Food Industry
Elisa Gebennini, Andrea Grassi, Bianca Rimini, Rita Gamberini
Department of Science and Engineering Methods, University of Modena and Reggio Emilia - Italy

MAS_72: Advanced Design of A Static Dryer for Pasta with Simulation Tools
Mattia Armenzoni, Federico Solari, Davide Marchini, Roberto Montanari, Gino Ferretti
Department of Industrial Engineering, Faculty of Engineering, University of Parma - Italy

MAS_73: Bakery Production Scheduling Optimization - a PSO Approach
Florian Hecker, Walid Hussein, Mohamed Hussein, Thomas Becker
Department for Process Analysis and Cereal Technology (FG Prozessanalytik und Getreidetechnologie),
University of Hohenheim; Department of Life Science Engineering (Ingenieurwissenschaften für
Lebensmittel und biogene Rohstoffe Arbeitsgruppe Bio-Prozesstechnik und Prozessanalyse, Technische
Universität München - Germany

Monday, September 12, 2011 13:30-15:00

Room: Cesarea

MAS: Decision support Systems Applications - Session 1**Chair: Fabio De Felice, University of Cassino, Italy**

MAS_4: An Efficient Hybrid Approach based on SVM and Binary ACO for feature Selection
 Hayet Mouss, Ouahab kadri, Fouad Merah, Adel Abdelhadi, Djamel Mouss
 Laboratory Automation & Production Engineering University of Batna; Department of Mathematics
 University of Khenchela - Algerie

MAS_15: Comparing Decision Support Tools for Cargo Screening Processes
 Peer-Olaf Siebers, Galina Sherman, Uwe Aickelin, David Menachof
 School of Computer Science, Nottingham University; Business School, Hull University - UK

MAS_19: Restoring Aquatic Ecosystems on the Basis of the GMAA DSS
 Antonio Jiménez, Alfonso Mateos
 Departamento de Inteligencia Artificial, Universidad Politécnica de Madrid - Spain

MAS_57: Data Presentation and Transformation in Train Schedule Information Systems
 Eugene Kopytov, Vasilijš Demidovs, Natalia Petukhova
 Transport and Telecommunication Institute, Riga; State Joint-Stock Company "Latvian Railway" - Latvia

MAS_103: Modeling Logistics & Operations in a Port Terminal for Environmental Impact Evaluation and Analysis
 Marina Massei, Francesca Madeo, Francesco Longo
 Simulation Team University of Genoa; Simulation Team MSC-LES Univ.of Calabria - Italy

Monday, September 12, 2011 13:30-15:00*Room: Hama***IMAACA: Bond Graph - session 1****Chair: Sergio Junco, Universidad Nacional de Rosario, Argentina**

IMAACA_19: A new Bond-Graph Model of Photovoltaic Cells

Stephan Astier, Guillaume Fontes, Xavier Roboam, Christophe Turpin, Frédéric Gailly, Laurianne Menard
 University of Toulouse - France

IMAACA_27: Study of Coupled Dynamics Between Body And Legs Of A Four Legged Walking Robot
 Krishnan L V, P M Pathak, S C Jain
 Robotics and Control Laboratory, Mechanical and Industrial Engineering Department, Indian Institute of
 Technology - India

IMAACA_55: Bond Graph Modeling of Reverse-Flow Monolith Reactor for Air Pollutant Abatement
 Antoine Riaud, Sebastien Paul, Genevieve Dauphin-Tanguy
 Ecole Centrale de Lille; Univ. Lille Nord de France; CNRS UMR818, Villeneuve d'Ascq Cedex; CNRS
 FRE 3303, LAGIS, Ecole Centrale de Lille - France

IMAACA_65: New Concept of Modeling To Predict Temperature In Oil-Hydraulic Cylinder Chamber
 Considering Internal Flow
 Kazuhiro Tanaka, Kouki Tomioka, Masaki Fuchiwaki, Katsuya Suzuki
 Kyushu Institute of Technology; NITTO DENKO Co - Japan

IMAACA_66: Modeling and Simulation of Power Hacksaw Machine Using Bond Graph
 Anand Vaz, Aman Maini
 Department of Mechanical Engineering, Dr. B.R. Ambedkar National Institute of Technology; Department
 of Mechanical Engineering, DAV Institute of Engineering & Technology - India

Monday, September 12, 2011 13:30-15:00*Room: Sabratha***HMS: MS in Logistics Traffic and Transportation - session 1****Chair: Massimo Tronci, University of Rome La Sapienza, Italy**

HMS_1: Investigation of Financial Flows in Logistics Using Multivariate Statistical Modelling Methods
Vladimirs Jansons, Vitalijs Jurenoks, Konstantins Didenko
Riga Technical University - Latvia

HMS_32: Performance Comparison between Immediate and Nonimmediate Passenger Guidance in Group Control for a Multi-Car Elevator System
Shunji Tanaka, Takuto Miyoshi
Department of Electrical Engineering, Kijoto University - Japan

HMS_15: Modelling of multimodal freight transportation system using process approach
Eugene Kopytov, Dmitry Abramov
Transport and Telecommunication Institute - Latvia

HMS_25: Extended Great Deluge Approach For The Integrated Dynamic Berth Allocation And Crane Assignment Problem
Neila El Asli, Thien-My Dao, Séraphin Abou
École de technologie supérieure; University of Minnesota Duluth - Canada/ USA

HMS_14: Identification Of Constitutive Characteristics For Adaptable Logistics Chains As Basis For An Assessment By Simulation
Henrik Gommel, Markus Florian, Lothar März, Daniel Palm
Fraunhofer Austria Research GmbH; Vienna University of Technology; LOM Innovation GmbH & Co KG - Austria/ Germany

Monday, September 12, 2011 15:00-15:30**COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar****Monday, September 12, 2011 15:30-17:00***Room: Massalia I***EMSS: Simulation in Healthcare Workshop - Session 2****Chair: Murat M.Günel, Turkish Naval Academy, Turkey**

EMSS_60: Reconstruction of Clinical Workflows based on the IHE integration profile "Cross-Enterprise Document Workflow"

Melanie Strasser, Franz Pfeifer, Emmanuel Helm, Andreas Schuler, Josef Altmann
Upper Austria University of Applied Sciences, Research & Development; Upper Austria University of Applied Sciences,
School of Informatics, Communications, and Media - Austria

EMSS_91: Using Query Extension And User Feedback To Improve Pubmed Search
Viktoria Dorfer, Sophie A. Blank, Stephan M. Winkler, Thomas Kern, Gerald Petz, Patrizia Faschang
University of Applied Sciences Upper Austria, School of Informatics, Communications and Media,
Bioinformatics Research Group; University of Applied Sciences Upper Austria, School of Management,
Digital Economy Research Group - Austria

EMSS_86: Modelling and Simulation of A Wireless Body Area Network Prototype For Health Monitoring

Yeray Callero, Rosa María Aguilar

Department of Systems Engineering and Automation, and Computer Architecture, University of La Laguna
- Spain

EMSS_96: CT Based Models for Monitoring Bone Changes in Paraplegic Patients Undergoing Functional Electrical Stimulation

Páll Jens Reynisson, Benedikt Helgason, Stephen J. Ferguson, Thordur Helgason, Rúnar Unnþórsson, Páll Ingvarsson, Helmut Kern, Winfried Mayr, Ugo Carraro, Paolo Gargiulo

School of Engineering and Natural Sciences, Faculty of Industrial Engineering, Mechanical Engineering and Computer Science, University of Iceland; Computer Science, University of Iceland; Department of Development and Consultancy UTS, Landspítali-University Hospital, Reykjavik, Iceland; Department of Biomedical engineering, University of Reykjavik, Iceland; Department of Rehabilitation Medicine, Landspítali-University Hospital; Ludwig Boltzmann Institute of Electrostimulation and Physical Rehabilitation, Department of Physical

Medicine, Wilhelminenspital. Vienna, Austria; Medical University of Vienna, Center of Biomedical Engineering and Physics; Laboratory of Translational Myology of the University of Padova, Department of Biomedical Sciences - Austria/ Iceland/ Italy

EMSS_143: Simulation Of Vascular Volume Pulsation Of Radial Index Artery

Pichitra Uangpairoj, Masahiro Shibata

Department of Bio-science and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology - Japan

Monday, September 12, 2011 15:30-17:00

Room: Massalia II

EMSS: Industrial Processes and Engineering MS - Session 2

Chair: Cesar De Prada, Universidad de Valladolid, Spain

EMSS_95: Automatic Selection of Relevant Data During Ultrasonic Inspection

Thouraya Merazi Meksen, Malika Boudraa, Bachir Boudraa

University of Science & Technology H. Boumedienne - Algeria

EMSS_98: Eigenfrequency Based Sensitivity Analysis Of Vehicle Drivetrain Oscillations

Oliver Manuel Krieg, Jens Neumann, Bernhard Hoess, Heinz Ulbrich

BMW Group Research and Technology; BMW AG; Institute of Applied Mechanics, Technical University of Munich - Germany

EMSS_122: A Simulation-Based Capacity Planning Model: A Case Study In A Contract Furnishing Sme

Nadia Rego Monteil, David del Rio Vilas, Diego Crespo Pereira, Rosa Rios Prado, Arturo Nieto de Almeida
Integrated Group for Engineering Research (GII), University of A Coruna - Spain

EMSS_25: Simulation Of Gesmey Generator Manoeuvres

Amable López, José A. Somolinos, Luis R. Núñez, Alfonso M. Carneros

Universidad Politécnica de Madrid; F.C.T. SOERMAR - Spain

EMSS_11: A Local Search Genetic Algorithm for the Job Shop Scheduling Problem

Mebarek Kebabla, Leila Hayet Mouss, Nadia Mouss

Université Hadj Lakhdar - Algeria

Monday, September 12, 2011 15:30-17:00

Room: Mylasa

MAS: Modeling and Simulation in Food, Beverage and Perishable Goods Industry - Session 2

Chair: Giuseppe Vignali, University of Parma, Italy

MAS_38: Mechanical Damage to Navy Beans as Affected by Moisture Content, Impact Velocity and Seed Orientation

Feizollah Shahbazi

Lorestan University Khoram Abad - Iran

MAS_39: How important is price leadership in the UK fresh fruit and vegetable market?

Cesar Revoredo-Giha, Alan Renwick

Land Economy and Environment Research Group, Scottish Agricultural College (SAC) - UK

MAS_47: Modeling of Drying Process of Candies Obtained with Starch Molding Technique

Noemi Baldino, Lucia Seta, Francesca Romana Lupi, Domenico Gabriele, Bruno de Cindio

Department of Engineering Modeling, University of Calabria - Italy

MAS_51: Modelling and interpolation of spatial temperature during food transportation and storage by the Variogram

Reiner Jedermann, Javier Palafox-Albarrán, Pilar Barreiro, Luis Ruiz-García, Jose Ignacio Robla, Walter Lang

IMSAS, University of Bremen; Universidad Politécnica de Madrid; National Center for Metallurgical Research, Spanish Council for Scientific Research (CENIM-CSIC) - Germany/ Spain

MAS_106: Modelling & Simulation of Sterilization Process of Pouch Packaging in an Aseptic Lines

Paolo Casoli, Gabriele Copelli, Michele Manfredi, Giuseppe Vignali

Department of Industrial Engineering, University of Parma; Interdepartmental Center SITEIA.Parma, University of Parma; Interdepartmental Center CIPACK, University of Parma - Italy

Monday, September 12, 2011 15:30-17:00

Room: Cesarea

MAS: Decision support Systems Applications - Session 2

Chair: Fabio De Felice, University of Cassino, Italy

MAS_63: Impact of Occupants Behavior on Building Energy Use: an Agent-Based Modeling Approach

Carol Menassa, Elie Azar

University of Wisconsin-Madison; Department of Civil and Environmental Engineering at the University of Wisconsin-Madison - USA

MAS_69: Building a System for Automated Modeling and Simulation of Plants

Robert Schöech, Susanne Schmid, Christian Hillbrand

V-Research GmbH, Industrial Research and Development - Austria

MAS_75: RFID-Based Real-Time Decision Support in Supply Chains

Tobias Hegmanns, Michael Toth

Fraunhofer-Institute for Material Flow and Logistics - Germany

MAS_89: Simulation as a Decision Support Tool in Maintenance Float Systems – System Availability Versus Total Maintenance Cost

Francisco Peito, Guilherme Pereira, Armando Leitão, Luís Dias

Industrial Management Dpt., Polytechnic Institute of Bragança; Research Centre ALGORITMI, University of Minho - Portugal

MAS_90: ANP Approach For Improving Public Participation In Strategic Environmental Management Planning

Fabio De Felice, Antonella Petrillo

D.i.M.S.A.T - Department of Mechanism, Structures and Environment - University of Cassino - Italy

Monday, September 12, 2011 15:30-17:00

Room: Hama

IMAACA: Bond Graph Modeling - session 2

Chair: Sergio Junco, Universidad Nacional de Rosario, Argentina

IMAACA_15: Analytical Redundancy Relations from Bond Graphs of Hybrid System Models

Wolfgang Borutzky

Bonn-Rhein-Sieg University of Applied Sciences - Germany

IMAACA_22: Passive Fault Tolerant Control: A Bond Graph Approach

Matías Nacusse, Sergio Junco

LAC, Laboratorio de Automatización y Control, Departamento de Control, Facultad de Ciencias Exactas, Ingeniería y Agrimensura, Universidad Nacional de Rosario - Argentina

IMAACA_49: Algebraic characterization of the invariant zeros structure of LTV bond graph models

Dapeng Yang, Christophe Sueur, Geneviève Dauphin-Tanguy

Ecole Centrale de Lille - France

IMAACA_62: Diodes and an alternative Procedure to derive Equations from Bond Graph models by exploiting a Linear Graph Approach

Noe Villa-Villaseñor, Gilberto González-Avalos, Jesús Rico-Melgoza

Universidad Michoacana de San Nicolás Hidalgo - Mexico

IMAACA_63: Bond Graph Modeling Of A Hydraulic Vibration System: Simulation And Control

Farid Arvani, Geoff Rideout, Nick Krouglicof, Steve Butt

Faculty of Engineering, Memorial University of Newfoundland - Canada

Monday, September 12, 2011 15:30-17:00

Room: Sabratha

HMS: MS in Logistics Traffic and Transportation - session 2

Chair(s): Francesco Costantino, Giulio Di Gravio, University of Rome La Sapienza Italy

HMS_28: Using Simulated Sensor Images for Object Recognition of Universal Goods for Automatic Unloading of Containers

Bernd Scholz-Reiter, Hendrik Thamer

BIBA – Bremer Institut für Produktion und Logistik GmbH at the University of Bremen - Germany

HMS_50: Modeling and Simulation as Support for Decisions Making in Petrochemical Marine Logistics

Agostino Bruzzone, Alberto Tremori, Enrico Bocca, Francesca Madeo, Federico Tarone, Giovanni Gazzale

MISS-DIPTEM University of Genoa; MAST Srl; Simulation Team; Liophant Simulation - Italy

HMS_22: Modelling Evaporation Duct Effect in Radar Simulation

Koray Basbilen, Murat Efe, Orkun Zorba

Meteksan Defence Industry Inc; Ankara University, Electronics Engineering Department - Turkey

HMS_34: SIMSHUNT – A Fast Simulation Tool For Capacity Analysis of Shunting Yards

Benno Hüttler, Manfred Gronalt, Jan Zazgornik

Institute of Production and Logistics, University of Natural Resources and Life Sciences, Vienna - Austria

HMS_30: An LPV Model for a Marine Cooling System with Transport Delays
Michael Hansen, Jakob Stoustrup, Jan Dimon Bendtsen
A.P. Møller; Aalborg University - Denmark

Monday, September 12, 2011 17:15-18:45

Room: Massalia I

Special Session on Medical Simulation: Medsim

Chair: Joseph Rosen, Dartmouth College, USA

"Medical Simulation Overview" J.Rosen -Dartmouth College - USA
"Medical Simulation & Education" J.Riess - Educational Training Solution - USA
"Team Training and Safety",
G.Santos -Dartmouth College - USA
"Medical Crisis", E.Santos, IDS UTEP - USA

Monday, September 12, 2011 17:15-18:45

Room: Massalia II

Special Joint I3M/CAX Forum Session: CIMIC And Planning Research In Complex Operational Realistic Network

Chair: Marina Massei, Simulation Team, Italy

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

Monday, September 12, 2011 17:15-18:45

Room: Mylasa

Special Joint I3M/CAX Forum Session: SimSummit Meeting

Chair: Bill Waite, Aegis Technologies, USA

SimSummit Agenda & Partner Organization Panel

Social Events

Monday, September 12, 2011 19:00-19:30

***Leptis Magna IV Introduction to Vatican Museums guided tour
(CAX Forum 2011 & I3M participants plenary session)***

Monday, September 12, 2011 20:00-21:30

20:00 ICE Break Cocktail - Access Available just to CAX Forum Attendees - No Free Access for I3M Attendees

Tuesday, September 13, 2011 9:00-10:30

Room: Massalia I

EMSS: Simulation in Healthcare Workshop - Session 3

Chair: Jerzy W. Rozenblit, University of Arizona, USA

EMSS_94: On the Use of Estimated Tumor Marker Classifications in Tumor Diagnosis Prediction - A Case Study for Breast Cancer

Stephan Winkler, Michael Affenzeller, Gabriel Kronberger, Michael Kommenda, Stefan Wagner, Witold Jacak, Herbert Stekel

Upper Austria University of Applied Sciences, School for Informatics, Communications, and Media, Heuristic and Evolutionary Algorithms Laboratory; General Hospital Linz, Central Laboratory - Austria

EMSS_74: Missing Data Estimation For Cancer Diagnosis Support

Witold Jacak, Karin Proell

Department of Software Engineering Upper Austria University of Applied Sciences Hagenberg; Department of Medical Informatics and Bioinformatics Upper Austria University of Applied Sciences Hagenberg - Austria

EMSS_93: New Genetic Programming Hypothesis Search Strategies for Improving the Interpretability in Medical Data Mining Applications

Michael Affenzeller, Christian Fischer, Gabriel Kronberger, Stephan M. Winkler, Stefan Wagner
Upper Austria University of Applied Sciences, School for Informatics, Communications, and Media, Heuristic and Evolutionary Algorithms Laboratory - Austria

EMSS_20: Denervated Muscle Undergoing Electrical Stimulation: Development Of Monitoring Techniques Based On Medical Image Modelling

Paolo Gargiulo, Thomas Mandl, Egill A. Friðgeirsson, Iliara Bagnaro, Thordur Helgason, Páll Ingvarsson, Marcello Bracale, Winfried Mayr, Ugo Carraro, Helmut Kern,
University Hospital Landspítali; University of Reykjavik; University of Applied Sciences Technikum Wien; University Federico II Napoli; University Hospital, Reykjavik; Center of Biomedical Engineering and Physics Wien; University of Padova; Ludwig Boltzmann Institute of Electrostimulation and Physical Rehabilitation - Austria/ Italy/ Iceland

EMSS_22: 3D Segmented Model Of Head For Modelling Electrical Activity Of Brain

Egill A. Friðgeirsson, Paolo Gargiulo, Ceon Ramon, Jens Haueisen

Department of Development and Consultancy UTS; University of Reykjavik; Technical University Ilmenau; University of Washington - Germany/ Italy/ USA

Tuesday, September 13, 2011 9:00-10:30

Room: Massalia II

EMSS: Industrial Processes and Engineering MS - Session 3

Chair: Cesar De Prada, Universidad de Valladolid, Spain

EMSS_41: Simultaneous Scheduling Of Machines And Operators In A Multi-Resource Constrained Job-Shop Scenario

Lorenzo Tiacci, Stefano Saetta

Dipartimento di Ingegneria Industriale – Università degli Studi di Perugia - Italy

EMSS_47: Sugar Factory Benchmark

Rogelio Mazaeda, Alexander Rodriguez, Alejandro Merino, Cesar De Prada, Luis Felipe Acebes
Systems and Automation Department, School of Industrial Engineering, University of Valladolid - Spain

EMSS_127: Design and Development Of Data Analysis Modules For The Aermod And Calpuff Simulation Models

Ann Wellens, Gamar García

Facultad de Ingeniería, UNAM - Mexico

MAS_104: Modelling a Traceability System for a Food Supply Chain: Standards, Technologies and Software Tools

Bruno De Cindio, Francesco Longo, Giovanni Mirabelli, Teresa Pizzuti
Department of Modeling for Engineering, University of Calabria - Italy

Tuesday, September 13, 2011 9:00-10:30

Room: Mylasa

MAS: Modeling and Simulation in Food, Beverage and Perishable Goods Industry - Session 3

Chair: Andrea Grassi, University of Modena and Reggio Emilia, Italy

MAS_76: Feature Selection for Datasets of Wine Fermentations

Antonio Mucherino, Alejandra Urtubia

CERFACS, Toulouse; Universidad Tecnica Federico Santa Maria, Valparaiso - Chile/ France

MAS_84: Object-Oriented Model of Fixed-Bed Drying of Coffee Berries

Emilio de Souza Santos, Paulo Cesar Corrêa, Brian Lynn Steward, Daniel Marçal de Queiroz
CODEVASF, Brasilia/DF – Brazil; Department of Agricultural Engineering, Viçosa Federal University; Dep. of Agricultural and Biosystem Engineering, Iowa State University - Brazil/ USA

MAS_88: A Computationally Efficient and Scalable Shelf Life Estimation Model for Wireless Temperature Sensors in the Supply Chain

Ismail Uysal, Jean-Pierre Emond, Gisele Bennett

College of Technology and Innovation, University of South Florida Polytechnic; Georgia Tech Research Institute, Georgia Institute of Technology - USA

MAS_92: Design and Development of Realistic Food Models with Well Characterised Micro and Macro-Structure and Composition

Monique Axelos, Jean-Dominique Daudin, Guy DellaValle, Nathalie Perrot, Catherine MGC Renard, Caroline Sautot, Jean-Louis Sebedio

INRA, Division CEPIA, Nantes; INRA-Transfert, Nantes; INRA, Division AlimH, Nantes - France

MAS_93: From Expert Knowledge to Qualitative Functions: Application to The Mixing Process

Kamal Kansou, Guy Della Valle, Amadou Ndiaye

INRA, Nantes; INRA, CNRS, Univ. Bordeaux - France

Tuesday, September 13, 2011 9:00-10:30

Room: Cesarea

MAS: Industrial Engineering: Manufacturing, Logistics and Construction - Session 1

Chair: Murat M.Günel, Turkish Naval Academy, Turkey

MAS_10: Study for a Mechanism Aided by Asynchronous Actuator Powered by Asynchronous Diesel Generator

Meglouli Hocine, Ikhlef Boualem

Faculty of hydrocarbons and chemicals. University of Boumerdes - Algeria

MAS_33: Factory Layout Planner: How to speed up the factory design process in a natural and comfortable way

Antonio Avai, Giovanni Dal Maso, Paolo Pedrazzoli, Diego Rovere

Technology Transfer System s.r.l., Milano; SUPSI-ICIMSI, Manno - Italy/ Switzerland

MAS_79: The Use of Simulation as a Pedagogical Tool in Construction Education

Ronald Ekyalimpa, Jangmi Hong, Simaan AbouRizk
Dept. of Civil and Environmental Engineering, Univ. of Alberta - Canada

MAS_82: A Survey on Performance Modelling and Simulation of SAP Enterprise Resource Planning Systems

Manuel Mayer, Stephan Gradl, Veronika Schreiber, Harald Kienegger, Holger Wittges, Helmut Krömar
Technische Universität München - Germany

MAS_83: Understanding the Performance Behavior of a SAP ERP System for the Use of Queuing Models
Stephan Gradl, Manuel Mayer, Alexandru Danciu, Holger Wittges, Helmut Krömar
Technische Universität München - Germany

Tuesday, September 13, 2011 9:00-10:30

Room: Hama

IMAACA: Process Monitoring, Fault Detection and Diagnosis 1.- session 1

Chair: Geneviève Dauphin-Tanguy, École Centrale de Lille, France

IMAACA_30: Multi-scale extension of discriminant PLS for fault detection and diagnosis

Mohammad Sadeq Emami Roodbali, Mehdi Shahbazian
Petroleum University of Technology - Iran

IMAACA_36: Application of Nonlinear Model Predictive Control Based On Different Models To Batch Polymerization Reactor

Sevil Cetinkaya, Duygu Anakli, Zehra Zeybek, Hale Hapoglu, Mustafa Albaz
Cumhuriyet University, Department of Chemical Engineering; Ankara University, Department of Chemical Engineering - Turkey

IMAACA_42: Process Monitoring Based On Measurement Space Decomposition

José Luis Godoy, Jorge Ruben Vega, Jacinto Luis Marchetti
INTEC (CONICET-Universidad Nacional del Litoral) - Argentina

IMAACA_60: Geometric Properties of Kernel Partial Least Squares For Non-Linear Process Monitoring

José L. Godoy, Germán Bustos, Alejandro H. Gonzalez, Jacinto L. Marchetti
INTEC (CONICET and Universidad Nacional del Litoral) - Argentina

Tuesday, September 13, 2011 9:00-10:30

Room: Sabratha

HMS: Advanced Models and Applications of Logistics and Manufacturing - session 1

Chair(s): Teresa Murino, Liberatina Santillo, University of Naples Federico II, Italy

HMS_24: Convex Extension Of Discrete-Convex Functions And Applications In Optimal Design Of Complicated Logistic, Manufacturing And Processing Environments

Tiit Riismaa
Institute of Cybernetics at Tallinn University of Technology - Estonia

HMS_27: Recursive Algorithm For Optimization The Structure Of Complicated Logistic, Manufacturing And Processing Environments

Tiit Riismaa
Institute of Cybernetics at Tallinn University of Technology - Estonia

HMS_47: Pull Production Policies: Comparative Study Through Simulative Approach

Mosè Gallo, Guido Guizzi, Giuseppe Naviglio
Department of Materials Engineering and Operations Management, University of Naples "Federico II" - Italy

HMS_35: Decision Support In A Service Firm
Mosè Gallo, Teresa Murino, Elpidio Romano, Massimo Fasano
Department of Material Engineering and Materials, University of Naples "Federico II" - Italy

HMS_48: Application Of Tramo-Seats Automatic Procedure For Forecasting Sporadic And Irregular Demand Patterns With Seasonality
F. Lolli, R. Gamberini, A. Regattieri, B. Rimini, A. Grassi, P. Belluti
Department of Engineering Sciences and Methods, University of Modena and Reggio Emilia; Department of Industrial and Mechanical Plants, University of Bologna - Italy

Tuesday, September 13, 2011 10:30-11:00

COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar

Tuesday, September 13, 2011 11:00-12:30

Room: Massalia I

EMSS: Simulation and Artificial Intelligence - Session 1

Chair: Tudor Niculiu, University "Politehnica" of Bucharest , Romania

EMSS_150: Maritime Security: Emerging Technologies for Asymmetric Threats
Agostino G. Bruzzone, Marina Massei, Alberto Tremori, Francesco Madeo, Federico Tarone, Francesco Longo
MISS-DIPTEM, University of Genoa; Simulation Team; MSC-LES, Mechanical Dept, University of Calabria - Italy

EMSS_136: Neighborhood Concept For Modeling An Adaptive Routing In Wireless Sensors Network
Jan Nikodem, Maciej Nikodem, Ryszard Klempous, Marek Woda, Zenon Chaczko
Wroclaw University of Technology; University of Technology Sydney - Australia/ Poland

EMSS_117: Synthesis of Feedback Controller for Stabilization of Chaotic Henon Map Oscillations by Means of Analytic Programming
Roman Senkerik, Zuzana Oplatkova, Ivan Zelinka, Donald Davendra, Roman Jasek
Tomas Bata University in Zlin , Faculty of Applied Informatics; Technical University of Ostrava, Faculty of Electrical Engineering and Computer Science - Czech Rep.

EMSS_59: An Asynchronous Parallel Hybrid Optimization Approach To Simulation-Based Mixed-Integer Nonlinear Problems
Kathleen Fowler, Timothy Kopp, Jacob Orsini, Josh Griffin, Genetha Gray
Department of Mathematics and Computer Science, Clarkson University; Sandia National Labs - USA

EMSS_3: Controllable Equivalent Resistance CMOS Active Resistor with Improved Accuracy and Increased Frequency Response
Cosmin Popa
University Politehnica of Bucharest - Romania

Tuesday, September 13, 2011 11:00-12:30

Room: Massalia II

EMSS: Industrial Processes and Engineering MS - Session 4

Chair: Michael Affenzeller, Upper Austrian University of Applied Sciences, Austria

EMSS_128: Development of a Simulation Tool For Consequence Analysis In Industrial Instalations
Victor Pérez, Gamar García, María Guadalupe Ávila, Francisco Castellanos, Ann Wellens
Facultad de Ingeniería, UNAM - Mexico

EMSS_16: Optimization of Automated Guided Vehicle Rules for a Multiple-load AGV System in a FMS Environment
Parham Azimi, Masuomeh Gardeshi
Islamic Azad University; Allameh Tabatabaee University - Iran

EMSS_18: Simulation Helps Assess and Increase Airplane Manufacturing Capacity
Marcelo Zottolo, Edward Williams, Onur Ulgen
PMC - USA

EMSS_72: dSPACE based Direct-driven Permanent Magnet Synchronous wind Power System Modeling and Simulation
Yan-xia Shen, Xiang-xia Liu, Zhi-cheng Ji, Ting-long Pan
Institute of Electrical Automation, Jiangnan University - China

EMSS_151: On the Short Period Production Planning in Industrial Plants: A Real Case Study
Agostino G. Bruzzone, Francesco Longo, Letizia Nicoletti, Rafael Diaz
MIS-DIPTM, University of Genoa; MSC-LES, University of Calabria; CAL-TEK S.r.l.; VMASC, Old Dominion University - Italy/ USA

Tuesday, September 13, 2011 11:00-12:30

Room: Mylasa

MAS: Industrial Engineering: Manufacturing, Logistics and Construction - Session 2

Chair: Gregory Zacharewicz, IMS Université Bordeaux 1, France

MAS_48: Benchmarking Real-World Job-Shop Scheduling using a Genetic Algorithm with a Simulation Approach
Peter Steininger
Steinbuch Centre for Computing (SCC); Karlsruhe Institute of Technology (KIT) - Germany

MAS_44: Modelling and Analysing the Impact of Manual Handling Processes in Seaports
Bernd Scholz-Reiter, Michael Gorges, Ralf Matthies
BIBA – Bremer Institut für Produktion und Logistik GmbH; BLG Cargo Logistics GmbH & Co. KG. - Germany

MAS_67: The Art of Data-Driven Modelling in Logistics Simulation
Rainer Frick
V-Research GmbH, Dornbirn - Austria

MAS_68: Evaluation of Climate-Efficient Cross-Company Logistics Models
Christian Hillbrand, Susanne Schmid
V-Research GmbH, Industrial Research and Development - Austria

MAS_46: Numerical Analysis of Wind Induced Pressure Loads on an Integrated Roof-Based Photovoltaic System
Marco Raciti Castelli, Sergio Toniato, Ernesto Benini
Department of Mechanical Engineering – University of Padua; ESPE S.r.l. - Italy

Tuesday, September 13, 2011 11:00-12:30

Room: Cesarea

MAS: ModSim - Session 1

Chair: Alexander Bogany, FFG, Austria, Peter Kerschl, FFG, Austria

MAS_22: 3 Years of Funding Initiative for Computational Mathematics in Austria

Peter Kerschl, Alexander Pogány

Austrian Research Promotion Agency (FFG) Departments Thematic Programmes; Federal Ministry of Transport, Innovation and Technology (bmvit) Department III/I 5 Department for IT, Nanotechnology, Industrial Technologies and Space Flight - Austria

MAS_23: Dynamic Phenomena and Quality Defects in Laser Cutting

Dieter Schuöcker, Joachim Aichinger, Georg Schuöcker

Upper Austrian Laser Center; Svoent Entwicklungs GmbH & CO KG - Austria

MAS_25: CoMModO – Complex Material Modeling Operations, A Comprehensive Approach to the Modeling of Complex Materials with Machine Learning Models within Finite Element Simulations

Andreas Kuhn, Toni Palau, Gerolf Schlager, Helmut Böhm, Sergio Nogales, Andrea Rauh, Jürgen Lescheticky, Victor Oancea, Rotwick Roy, ABAQUS SIMULIA, Providence, RI, USA

NDATA GmbH, Hallein; Institute of Lightweight Design and Structural Biomechanics, Vienna University of Technology; ABAQUS SIMULIA, Providence; BMW AG, Munich - Austria/ Germany/ USA

MAS_41: Simulations of liquid film flows with free surface on rotating silicon wafers (RoWaFlowSim)

Markus Junk, Frank Holsteyns, Felix Staudegger, Christiane Lechner, Hendrik Kuhlmann, Doris Prieling, Helfried Steiner, Bernhard Gschaider, Petr Vita

Lam Research AG, Villach; Institute of Fluid Mechanics and Heat Transfer, Vienna University of Technology; Institute of Fluid Mechanics and Heat Transfer, Graz University of Technology; ICE Strömungsforschung GmbH, Leoben; Department Mineral Resources and Petroleum Engineering, University of Leoben - Austria

MAS_54: Large Target-Weapon Assignment Problems with Evolutionary Programming as applied to the Royal Thai Armed Forces ground-to-ground rocket simulation system

Settamong Malisuwan, Teeranan Nandhakwang, Tawiwat Veeraklaew

Laboratory of Mechanical and Aeronautic Engineerings, Defence Technology Institute; 2Dynamic Spectrum Management Project, National Broadcasting and Telecommunications Commission - Thailand

Tuesday, September 13, 2011 11:00-12:30

Room: Hama

IMAACA: Process Monitoring, Fault Detection and Diagnosis 1.- session 2

Chair: Geneviève Dauphin-Tanguy, École Centrale de Lille, France

IMAACA_5: A New Approach for Industrial Diagnosis by Neuro-Fuzzy systems: Application to Manufacturing System

Rafik Mahdaoui, Hayet Mouss, Djamel Mouss

- Algeria

IMAACA_34: Diagnosing Photovoltaic Systems: an Iterative Process

Abed Alrahim Yassine, Stephane Ploix, Hussein Joumaa

G-SCOP lab, Grenoble - France

IMAACA_50: Component Fault Detection and Isolation Comparison between Bond Graph and Algebraic Approach

Samir Benmoussa, Belkacem Ould Bouamama, Rochdi Merzouki

LAGIS, FRE CNRS 3303, Polytech'Lille - France

IMAACA_51: Fault Detection and Isolation in Presence of Input and Output Uncertainties Using Bond Graph Approach

Youcef Touati, Rochdi Merzouki, Belkacem Ould Bouamama
Ecole Polytechnique de Lille, LAGIS - France

IMAACA_59: Bond Graph Model Based For Robust Fault Diagnosis

Rafika El Harabi, Belkacem Ould Bouamama, Mohamed Naceur Abdelkrim, Mohamed Ben Gayed
LAGIS, UMR CNRS 8146, Ecole Polytechnique Universitaire de Lille; Unité de Recherche Modélisation, Analyse et Commande des Systèmes, Ecole Nationale d'Ingénieurs de Gabès - France/ Tunisia

Tuesday, September 13, 2011 11:00-12:30

Room: Sabratha

HMS: MS for Inventory Management and Logistics - session 1

Chair: Eleonora Bottani, Roberto Montanari University of Parma , Italy

HMS_17: Reference Model for The Development of Stock Management in Supply Chains

Igor Lopes Martínez, Vilma Rodríguez, Martha I. Gómez Acosta, José A. Acevedo Suárez
Instituto Superior Politécnico "José Antonio Echevarría" (CUJAE) - Cuba

HMS_18: INTERCOMPRAS® Containers: An Integrative Tool of The Logistic Infrastructure And Management Of Supply Chains

Vilma Rodríguez Castro, Martha I. Gómez Acosta, Igor Lopes Martínez, José A. Acevedo Suárez
Instituto Superior Politécnico "José Antonio Echevarría" (CUJAE) - Cuba

HMS_40: Impacts of Vendor Managed Inventory on Business Processes - Demonstration and Process Reference Modeling

Kathrin Reitner, Wolfgang Ortner, Werner Wetzlinger
University of Applied Sciences Upper Austria - Austria

HMS_7: The Composite Supply Chain Efficiency Model

Leila L. Goedhals-Gerber, Hendrik Retief Gerber
Department of Logistics, University of Stellenbosch; NioCAD (Pty) Ltd - South Africa

HMS_52: On The Optimal Safety Stock Levels In Supply Networks

Eleonora Bottani, Gino Ferretti, Roberto Montanari, Agostino Bruzzone, Francesco Longo
Department of Industrial Engineering, University of Parma; Simulation Team - Italy

Tuesday, September 13, 2011 11:00-12:30

LUNCH Co-Sponsored by CAE, CAL-TEK, MAST

Tuesday, September 13, 2011 13:30-15:00

Room: Massalia I

EMSS: Simulation and Artificial Intelligence - Session 2

Chair: Tudor Niculiu, University "Politehnica" of Bucharest , Romania

EMSS_58: Reconfigurable Human-System Cosimulation

Tudor-Razvan Niculiu, Maria Niculiu
University Politehnica București, Faculty of Electronics, Telecommunications, and IT; University București, Faculty of Foreign Languages and Literatures - Romania

EMSS_75: A New Devs-Based Generic Artificial Neural Network Modeling Approach

Samuel Toma, Laurent Capocchi, Dominique Federici

SPE UMR CNRS 6134 Laboratory, University of Corsica - France

EMSS_80: Simulation and Modelling Of The Flat-Band Voltage For Below 200nm Soi Devices
Cristian Ravariu, Florin Babarada
Politehnica University of Bucharest, Faculty of Electronics and Telecommunications - Romania

EMSS_82: Simulation, Optimisation and Design a Platform for in-vivo Electrophysiological Signals Processing
Florin Babarada, Cristian Ravariu, Janel Arhip
University Politehnica of Bucharest, Faculty Electronics Telecommunications and Information Technology, DCAE, ERG,; S.C. Seletron Software si Automatizari SRL - Romania

EMSS_111: Design and Implementation of a Fuzzy Cognitive Maps Expert System for Oil Price Estimation
Mohamad Ali Azadeh, Zeinab sadat Ghaemmohamadi
Department of Industrial Engineering and Center of Excellence for Intelligent Based Experimental Mechanics, College of Engineering, University of Tehran - Iran

Tuesday, September 13, 2011 13:30-15:00

Room: Massalia II

EMSS: Industrial Processes and Engineering MS - Session 5

Chair: Michael Affenzeller, Upper Austrian University of Applied Sciences, Austria

EMSS_83: A Simulation-Based Framework for Industrial Automated Wet-Etch Station Scheduling Problems In The Semiconductor Industry
INTEC (Universidad Nacional del Litoral - CONICET); UMOSE, Laboratório Nacional de Energia e Geologia - Argentina/ Portugal

EMSS_126: Stochastic Optimization of Industrial Maintenance Strategies
Francisco Castellanos, Ann Wellens
Facultad de Ingeniería – UNAM - Mexico

EMSS_48: Designing and Implementing a Model to Examine R&D Section's Capabilities With Emphasis on Reversed Engineering in Chemical Factory
Neda Khadem Geraili, Mona Benhari
Department of Technology management, Faculty of Management & Economics, I.A.U Science & Research Branch - Iran

EMSS_46: Management of Supply Networks using PDES
Carmine De Nicola, Rosanna Manzo, Luigi Rarità
Dipartimento di Ingegneria Elettronica e Ingegneria Informatica,
University of Salerno - Italy

MAS_95: Simulation Based Modeling of Warehousing Operations in Engineering Education Based on an Axiomatic Design
Rafael S. Gutierrez, Sergio Flores, Fernando Tovia, Olga Valerio, Mariano Olmos
The University of Texas at El Paso; Universidad Autonoma de Cd. Juarez; Philadelphia University; El Paso Community College - USA

Tuesday, September 13, 2011 13:30-15:00

Room: Mylasa

EMSS: Petri Nets MS - Session 1

Chair: Emilio Jimenez, University of La Rioja, Spain

EMSS_68: Modeling and Simulation Of Petri Nets For Complex Scheduling Rules of Automated Manufacturing Systems
Chulhan Kim, Tae-Eog Lee
Department of Industrial and Systems Engineering KAIST - South Korea

EMSS_78: An Improved Time-Line Search Algorithm To Optimize Industrial Systems
Miguel Mujica, Miquel Angel Piera
Autonomous University of Barcelona, Faculty of Telecommunications and Systems Engineering - Spain

EMSS_109: Modeling and Simulating a Benchmark on Dynamic Reliability as a Stochastic Activity Network
Daniele Codetta-Raiteri
Dipartimento di Informatica, Università del Piemonte Orientale - Italy

EMSS_115: The Exclusive Entities in the formalization of a Decision Problem based on a Discrete Event System by means of Petri nets
Juan Ignacio Latorre-Biel, Emilio Jimenez-Marcia

Public University of Navarre. Department of Mechanical Engineering, Energetics and Materials; University of La Rioja. Industrial Engineering Technical School. Department of Electrical Engineering - Spain

EMSS_116: Matrix-based operations and equivalent classes in alternative Petri nets
Juan Ignacio Latorre-Biel, Emilio Jimenez-Marcia

Public University of Navarre. Department of Mechanical Engineering, Energetics and Materials; University of La Rioja. Industrial Engineering Technical School. Department of Electrical Engineering - Spain

Tuesday, September 13, 2011 13:30-15:00

Room: Cesarea

MAS: Industrial Engineering: Manufacturing, Logistics and Construction - Session 3

Chair: David del Rio Vilas, University of La Coruna, Spain

MAS_52: Modeling and Simulation of an assembly line: a new approach for assignment and optimization of activities of operators
Domenico Falcone, Alessandro Silvestri, Antonio Forcina, Antonio Pacitto
Department of Mechanics, Structures, Environment, University of Cassino - Italy

MAS_71: Dynamics of direct transports in autonomously controlled production Networks
Bernd Scholz-Reiter, Michael Görge
BIBA – Bremer Institut für Produktion und Logistik GmbH - Germany

MAS_1: Mothballing (Asset Preservation) of a Crude Oil Gathering Center
Musleh Al-Otaibi, Abdul-Hassan Mohammed
Applied Technology Institution; MIChemE, EuroIng - Kuwait

MAS_86: An Overall DHM-Based Ergonomic and Operational Assessment of a Manufacturing Task: a Case Study
Nadia Rego Monteil, David del Rio Vilas, Diego Crespo Pereira, Rosa Rios Prado
University of A Coruna - Spain

MAS_61: Dynamic Simulation Based Design of Powered Support in Integrated Mechanized Coal Mining
 Zhifeng Dong, Guozhu Liu, Jian Wang, Jianguang Qian, Shouxiang Zhang, Dongsheng Bao
 Mechanical and Electronic Engineering Department of China University of Mining and Technology; Beijing
 Mining Machinery Company Limited of China Zhongmei Group - China

Tuesday, September 13, 2011 13:30-15:00

Room: Hama

HMS: Harbour and Inland Terminals Simulation - session 1

Chair: Rafael Diaz, Virginia Modeling Analysis and Simulation Center - VMASC, USA

HMS_51: Simulation, Analysis and Optimization of Container Terminals Processes
 Agostino Bruzzone, Francesco Longo, Letizia Nicoletti, Eleonora Bottani, Roberto Montanari
 Simulation Team, University of Genoa; Simulation Team; MSC-LES, University of Calabria; Department
 of Industrial Engineering, University of Parma - Italy

HMS_37: SIMCONT – Theory and Practice in Simulation of Binnenland Container Terminals
 Manfred Gronalt, Hans Häuslmayer, Martin Posset, Thouraya Rojas-Navas
 University of Natural Resources and Life Sciences, Vienna - Austria

HMS_5: Numerical Modeling of Sediment Transport in Harbors and Study Of Planform Effects On
 Sedimentation
 Seyed Moin Mojabi, Kourosh Hejazi, Mahdi Mohammadi Aragh
 K.N.Toosi University of Technology - Iran

HMS_3: Facilitating Trade and adoption of the INTRADE IAV in Dublin Port in 2040
 Roisin Murray, Kay McGinley
 Dublin Institute of Technology, Department of Transport Engineering, College of Engineering and Built
 Environment - Ireland

HMS_21: Dynamic Model-Based for Intelligent Traffic Optimization inside Seaport Terminals
 Wissam Khalil, Rochdi Merzouki, Belkacem Ould-Bouamama
 LAGIS, CNRS-FRE 3303, Polytech'Lille - France

Tuesday, September 13, 2011 13:30-15:00

Room: Sabratha

IMAACA: Modeling & Control of Mechanical Systems - Session 1

Chair: Geneviève Dauphin-Tanguy, École Centrale de Lille, France

IMAACA_31: Modeling of aerodynamic flutter on a NACA 4412 airfoil wind blade
 Drishtysingh Ramdenee, H. Ibrahim, N. Barka, A. Ilinca
 Wind Energy Research Laboratory, Université du Québec à Rimouski; Wind Energy Technocentre,
 Murdochville - Canada

IMAACA_33: Modeling of Wheel/Track Interaction With Wheel Defects And Diagnosis Methods: An
 Overview

Rasul Fesharakifard, Antoine Dequidt, Florent Brunel, Yannick Desplanques, Olivier Coste, Patrick Joyez
 LAMIH University of Valenciennes; LML, Ecole Centrale de Lille; Signal Développement, Poitiers;
 Eurotunnel, Coquelles - France

IMAACA_53: Stability Analysis of 1 Dof Haptic Interface: Time Delay And Vibration Modes Effects
 Quoc Viet Dang, Antoine Dequidt, Laurent Vermeiren, Michel Dambrine

Univ Lille Nord de France; UVHC, LAMIH, Valenciennes; CNRS, Valenciennes - France

IMAACA_24: On Algebraic Approach for MSD Parametric Estimation
Marouene Oueslati, Stéphane Thiery, Olivier Gibaru, Richard Bearee, George Moraru
Laboratory of Science of Information and Systems LSIS, Arts et Métiers ParisTech; Centre de recherche INRIA Lille-Nord Europe - France

IMAACA_39: Active Vibration Reducing of a One-link Manipulator Using the State Feedback Decoupling and the First Order Sliding Mode Control
Mohammed Bakhti, Badr Bououlid Idrissi
Ecole Nationale Supérieure d'Arts et Métiers; The University of Moulay Ismail _ Meknes - Morocco

Tuesday, September 13, 2011 15:00-15:30

COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar

Tuesday, September 13, 2011 15:30-17:00

Room: Massalia I

EMSS: Discrete and Combined Simulation - Session 1

Chair: Gasper Music, University of Ljubljana, Slovenia

EMSS_17: A New Method for Validation and Optimisation of Unstable Discrete Event Models
Hans-Peter Barbey
University of Applied Sciences Bielefeld - Germany

EMSS_92: Simulation of The Vessel Traffic Schedule In The Strait of Istanbul
Şirin Özlem, İlhan Or, Birnur Özbaş
Boğaziçi University, Istanbul; Rutgers, The State University of New Jersey - USA/ Turkey

EMSS_129: Using Markov Chain and Graph Theory Concepts to Analyze Behavior in Complex Distributed Systems
Christopher Dabrowski, Fern Hunt
U.S. National Institute of Standards and Technology - USA

EMSS_133: Efficient Exploration of Coloured Petri net based scheduling problem solutions
Gasper Music
University of Ljubljana, Faculty of Electrical Engineering - Slovenia

EMSS_142: An Optimal Non-Blocking Dispatching In Free-Choice Manufacturing Flowlines By Using Machine-Job Incidence Matrix
Ivica Sindičić, Stjepan Bogdan, Tamara Petrović
ABB; LARICS - Laboratory for Robotics and Intelligent Control Systems, Department of Control and Computer Engineering, Faculty of Electrical Engineering and Computing, University of Zagreb - Croatia

Tuesday, September 13, 2011 15:30-17:00

Room: Massalia II

EMSS: Simulation Optimization in Industry, Services and Logistics - Session 1

Chair: Miguel Mújica Mota, Universitat Autònoma de Barcelona Spain

EMSS_30: Exploiting Variance Behavior in Simulation-based Optimization
Pasquale Legato, Rina Mary Mazza
Università della Calabria - Italy

EMSS_36: Transport Network Optimization: Self-Organization By Genetic Programming

Johannes Göbel, Anthony E. Krzesinski, Bernd Page

Department of Informatics, University of Hamburg; Department of Mathematical Sciences, University of Stellenbosch - Germany/ South Africa

EMSS_38: Simulation Model for the Calcination Process of Cement

Idalia Flores, Guillermo Perea

Facultad de Ingeniería, UNAM - Mexico

EMSS_43: New discrete Topology Optimization method for industrial tasks

Sierk Fiebig

Volkswagen Braunschweig - Germany

MAS_91: Distributed M&S for Product Service System

Thecle Alix, Greg Zacharewicz

Univ .Bordeaux - France

Tuesday, September 13, 2011 15:30-17:00

Room: Mylasa

EMSS: Petri Nets MS - Session 2

Chair: Juan Ignacio Latorre, Public University of Navarre ,Spain

EMSS_119: Security in sending and storage of Petri nets by signing and encryption

Íñigo León Samaniego, Mercedes Pérez de la Parte, Eduardo Martínez Cámara,

Juan Carlos Sáenz-Díez Muro

University of La Rioja, Industrial Engineering Technical School, Department of Electrical Engineering - Spain

EMSS_120: Petri Net Transformation for Decision Making: compound Petri nets to alternatives aggregation Petri nets

Juan Ignacio Latorre, Emilio Jimenez

Public University of Navarre. Department of Mechanical Engineering, Energetics and Materials; University of La Rioja. Industrial Engineering Technical School. Department of Electrical Engineering - Spain

EMSS_121: Improvements In The Optimization Of Flexible Manufacturing Cells Modelled With Discrete Event Dynamics Systems: Application To A Real Factory Problem

Diego Rodriguez, Mercedes Perez, Juan Manuel Blanco

Ikerlan; University of La Rioja, Industrial Engineering Technical School, Department of Mechanical Engineering; University of La Rioja, Industrial Engineering Technical School, Department of Electrical Engineering - Spain

EMSS_124: PN as a Tool for Innovation in Industry: a Review

Jesús Fernández de Miguel, Julio Blanco Fernández, Mercedes Pérez de la Parte

Grupo ECO3G, Logroño, La Rioja; University of La Rioja, Industrial Engineering Technical School, Department of Mechanical Engineering - Spain

EMSS_144: Coding TCPN Models Into The Simio Simulation Environment

Miguel Mujica, Miquel Angel Piera

Autonomous University of Barcelona, Faculty of Telecommunications and Systems Engineering - Spain

Tuesday, September 13, 2011 15:30-17:00

Room: Cesarea

MAS: Industrial Engineering: Manufacturing, Logistics and Construction - Session 4**Chair: Yilin Huang , Delft University of Technology, Netherlands**

MAS_20: Planning Highways Resurfacing Using Computer Simulation

Mohamed Marzouk, Marwa Fouad, Moheeb El-Said

Structural Engineering Department, Faculty of Engineering, Cairo University - Egypt

MAS_28: Additive Fault Tolerant Control for Delayed System

Abdelkrim Nouceyba, Abdelkrim Mohamed Naceur, Tellili Adel

Université de Gabès, Unité de recherche Modélisation, Analyse et Commande des Systèmes (MACS);

ISSIG; Ecole Nationale d'Ingénieurs de Gabs (ENIG) - Tunisia

MAS_29: Centralized and Decentralized Adaptive Fault-Tolerant Control applied to Interconnected and Networked Control System

Amina Challouf, Adel Tellili, Christophe Aubrun, MohammedNaceur Abdelkrim

Unité de Recherche: Modélisation, Analyse et Commande des Systèmes (MACS), Ecole Nationale

d'Ingénieurs de Gabès; Institute Supérieure des Etudes Technologiques de Djerba; Centre de Recherche en Automatique de Nancy(CRAN),Nancy-Université - Tunisia

MAS_77: Demand-Supply Interaction and Inventory Buildup Strategies for Short Life Cycle Products

Rong Pan, Adriano Solis, Bixler Paul

School of Computing, Informatics and Decision Systems Engineering, Arizona State University;

Management Science Area, School of Administrative Studies, York University - Canada/ USA

MAS_74: Simulation Based Design Optimization Framework for a Gait Pattern Generation of a small Biped Robot with Tiptoe Mechanism.

Krissana Nerakae, Hasegawa Hiroshi

Functional Control Systems – Graduate School of Engineering and Science, Shibaura Institute of

Technology; Department of Systems Engineering and Science, Graduate School of Engineering and

Science, Shibaura Institute of Technology - Japan

Tuesday, September 13, 2011 15:30-17:00*Room: Hama***DHSS: Cyber Security and Collective C2 - session 1****Chairs: Gianni Cantice, Italian Army, Italy**

DHSS_29: Simulating Urban Environment for assessing impact of Alternative Command & Control Netcentric Maturity Models within Asymmetric Scenarios

Agostino Bruzzone, Enrico Bocca, Federico Tarone

MISS DIPTTEM University of Genoa; Mast srl; Simulation Team - Italy

DHSS_7: Exploratory Sequential Data Analysis of a Cyber Defence Exercise

Dennis Andersson, Magdalena Granåsen, Thomas Sundmark, Hannes Holm, Jonas Hallberg

Swedish Defence Research Agency; KTH Royal Institute of Technology - Sweden

DHSS_11: Visual Analytics Applications for Cyber Security and Intelligence

Valérie Lavigne, Denis Gouin

Defence R&D Canada - Canada

DHSS_22: Detecting Deception within a Probabilistic Modelling Framework

Ken R. McNaught

Cranfield University; Defence Academy - UK

DHSS_5: A Simulation Study of C4I Communications Network Under Cyber Attacks

Agatino Mursia, Lucio Ganga, Alessandro Leonardi, Giacomo Morabito, Corrado Rametta, Lloyd Wihl
Selex Elsag Spa; University of Catania; Scalable Network Technologies, Inc. - Italy/ USA

Tuesday, September 13, 2011 15:30-17:00

Room: Sabratha

IMAACA: Modeling & Control of Mechanical Systems - Session 2

Chair: Geneviève Dauphin-Tanguy, École Centrale de Lille, France

IMAACA_46: Task Space Control of Grasped Object in the case of Multi-robots Cooperating System

A Khadraoui, C. Mahfoudi, A. Zaatri, K Djouani

Institute of Mechanics, Ain Beida; Institute of Mechanics, Constantin; LISSI Lab/University Paris - Algeria/
France

IMAACA_67: Optimization of Actuating System for Flapping Robot Design

T. Imura, M. Fuchiwaki, K. Tanaka

Graduate School of Computer Science and Systems Engineering Kyushu Institute of Technology;

Department of Mechanical Information Science and Technology Kyushu Institute of Technology - Japan

IMAACA_47: Design of a trajectory generator for a hexapod walking robot

C. Mahfoudi, M. Bouaziz, A Boulahia, K. Djouani, S. Rechak

Mechanical Engineering Department, Faculty of sciences and Technology, Larbi ben M'Hidi University;

Mechanical engineering and development laboratory, National Polytechnic Superior School, Mechanical
Engineering Department; Paris 12 University, LISII Laboratory - Algeria/ France

IMAACA_32: Control Allocation Strategies For An Overactuated Electric Vehicle

Jean-Yves Dieulot

LAGIS, Polytech-Lille - France

IMAACA_48: Using Linear Programming For The Optimal Control Of A Cart-Pendulum System

Luiz Puglia, Fabrizio Leonardi, Marko Ackermann

UNIP Universidade Paulista, São Paulo, Brazil, and Faculdades Integradas Torricelli; Centro Universitário
da FEI, São Bernardo do Campo - Brazil

Tuesday, September 13, 2011 17:15-18:45

Room: Leptis Magna III

Special Joint I3M/CAX Forum Session: SMACKDOWN iat Liophant Booth

Exhibition Area

Chair: Agostino G. Bruzzone, MISS DIPTM, Italy - Bill Waite, Aegis Technologies, USA

"Smackdown Initiative", Bill Waite, Aegis Technologies, USA

SmackDown Demonstration & Teleconferences

Tuesday, September 13, 2011 17:15-18:45

Room: Massalia II

Special Session 2012

Chair: Yuri Merkuriev, Riga TU; Francesco Longo, MSC-LES, Italy

Presenting I3M2012

I3M Proposals & New Initiatives

Social Event

Tuesday, September 13, 2011 19:00-19:30

19:30 Bus Starting from Ergife to Casa dell'Aviatore (Italian Air Force Club) for Gala Dinner (Jacket Required)

Tuesday, September 13, 2011 20:00

20:00 I3M Gala Dinner at Casa dell'Aviatore (Italian Air Force Club); Jacket Required; Bus Service to come back to Hotel

Wednesday, September 14, 201 9:00-10:30

Room: Massalia I

EMSS: Business, Economy and Finance MS - Session 1

Chair: Marina Massei, MISS DIPTM, Italy

EMSS_84: Data Stream Management in Income Tax Microsimulation Models

Istvan Molnar, Gyorgy Lipovszki

Department of Computer and Information Systems, School of Business, Bloomsburg University of Pennsylvania; Department of Mechatronics, Optics and Engineering Informatics, Faculty of Engineering, Budapest University of Technology and Economics - USA/ Hungary

EMSS_87: An Extreme Learning Machine Algorithm for Higher Order Neural Network Models

Shuxiang Xu

School of Computing, University of Tasmania - Australia

EMSS_104: A Framework For Enhanced Project Schedule Design To Aid Project Manager's Decision Making Processes

Sanja Lazarova-Molnar, Rabeb Mizouni, Nader Kesserwan

Faculty of Information Technology, United Arab Emirates University; Department of Software Engineering, Khalifa University - UAE

EMSS_110: A Stochastic Approach To Risk Modeling for Solvency II

Vojo Bubevski

Bubevski Systems & Consulting™; TATA Consultancy Services™ - UK

EMSS_118: A Simulation Study of The Interdependence of Scalability and Cannibalization in the Software Industry

Francesco Novelli

SAP Research Darmstadt - Germany

Wednesday, September 14, 201 9:00-10:30

Room: Massalia II

EMSS: Simulation Optimization in Industry, Services and Logistics - Session 2

Chair: Idalia Flores, University of Mexico, Mexico

EMSS_105: A Novel Approach To Realistic Modeling and Simulation Of State-Varying Failure Rates

Sanja Lazarova-Molnar

Faculty of Information Technology, United Arab Emirates University - UAE

EMSS_89: Increasing Availability of Production Flow Lines Through Optimal Buffer Sizing: A Simulative Study

Vittorio Cesarotti, Alessio Giuiusa, Vito Intronà

Department of Mechanical Engineering, "Tor Vergata" University of Rome - Italy

EMSS_106: Modeling and Simulation of Order Sortation Systems

Fahrettin Eldemir, Elif Karakaya

Industrial Engineering Department, Fatih University - Turkey

EMSS_24: Simulation Highway – Direct Access Intelligent Cloud Simulator

Egils Ginters, Inita Sakne, Ieva Lauberte, Artis Aizstrauts, Girts Dreijā, Rosa Maria Aquilar China, Yuri Merkurjev, Leonid Novitsky, Janis Grundspenkis

Sociotechnical Systems Engineering Institute Vidzeme University of Applied Sciences; Universidad de La Laguna; Riga Technical University - Latvia/ Spain

MAS_65: Sheeting Process Modelling and Rheological Analysis of an Olive-Oil-Emulsion-Based Puff Pastry

Francesca Romana Lupi, Noemi Baldino, Lucia Seta, Domenico Gabriele, Bruno de Cindio

Laboratory of Rheology and Food Engineering, Department of Engineering Modeling, University of Calabria - Italy

Wednesday, September 14, 2011 9:00-10:30

Room: Mylasa

EMSS: Methodologies, Technologies and Applications MS - Session 1

Chair: Claudia Frydman, LSIS, France

EMSS_19: Calibration of Process Algebra Models of Discretely Observed Stochastic Biochemical System

Paola Lecca

University of Trento - Italy

EMSS_132: A Methodology for the DEVS Simulation Graph Construction

Adedoyin Adegoke, Ibrahima Amadou, Hamidou Togo, Mamadou K. Traoré

African University of Science and Technology; Université de Bamako (Mali); LIMOS, CNRS UMR 6158, Université Blaise Pascal - Mali/ Nigeria/ France

EMSS_99: Improving Job Scheduling on a Heterogeneous Cluster by Predicting Job Execution Times Using Heuristics

Hannes Brandstätter-Müller, Bahram Parsapour, Andreas Hölzlwimmer, Gerald Lirk, Peter Kulczycki

Upper Austria University of Applied Sciences, School of Informatics, Communication, and Media, Department of Bioinformatics - Austria

EMSS_44: 3G Mobile Network Planning Based on a Traffic Simulation Model and a Cost-Benefit Model to Service Los Cabos International Airport

Aida Huerta Barrientos, Mayra Elizondo Cortés

National Autonomous University of Mexico - Mexico

Wednesday, September 14, 2011 9:00-10:30

Room: Cesarea

MAS: Modeling and Applied Simulation - Session 1

Chair: Janos Sebestyén Janosy, MTA KFKI Atomic Energy Research Institute, Hungary

MAS_13: Mathematical Modeling and Simulation for Detection of Suicide Bombers

William Fox, John Vesecky, Kenneth Laws

Department of Defense Analysis, Naval Postgraduate School; Department of Electrical Engineering, University of California at Santa Cruz - Canada/ USA

MAS_43: PLC Code Processing for Automatic Simulation Model Generation

Gergely Popovics, András Pfeiffer, Botond Kádár, Zoltán Vén, László Monostori
 Fraunhofer Project Center on Production Management and Informatics, Computer and Automation
 Research Institute, Hungarian Academy of Sciences; Faculty of Mechanical Engineering, Budapest
 University of Technology and Economics - Hungary

MAS_49: Improving Patient Safety: A Model of Drift in Health Care Teams

Rick. Severinghaus, C. Donald Combs
 The Aegis Technologies Group, Huntsville; Eastern Virginia Medical School - USA

**MAS_50: Modelling of Gestures with Differing Execution Speeds: Are Hidden non-Markovian Models
 Applicable for Gesture Recognition?**

Sascha Bosse, Claudia Krull, Graham Horton
 Otto-von-Guericke-University Magdeburg - Germany

MAS_17: Improvement of the Forecast of Economic Processes Parameters

Yuri Menshikov
 Dnepropetrovsk University - Ukraine

Wednesday, September 14, 2011 9:00-10:30

Room: Hama

DHSS: Healthcare Simulation and Homeland Security - session 1

Chair(s): Richard Boyd, Lockheed Martin, USA; Gianluca De Leo, Old Dominion University, USA

DHSS_6: Modeling and Simulating Dynamic Healthcare Practices

Eugene Santos Jr., Keum Kim, Fei Yu, Deqing Li, Phoebe Arbogast, Elizabeth Jacob, Joseph Rosen
 Dartmouth College; Dartmouth-Hitchcock Medical Center - USA

DHSS_10: A Low-Cost Simulation Environment For Port Security Experimentation And Training

Tania Randall, Allan Gillis
 Defence Research & Development Canada - Canada

DHSS_26: Automatic Maritime Surveillance With Visual Target Detection

Domenico Bloisi, Luca Iocchi, Michele Fiorini, Giovanni Graziano
 Sapienza University of Rome; SELEX Sistemi Integrati S.p.A. - Italy

EMSS_149: Modeling Of Obesity Epidemics By Intelligent Agents

Agostino Bruzzone, Vera Novak, Francesca Madeo, Cecilia Cereda
 MISS DIPTTEM University of Genoa; BIDMC, Harvard Medical School; M&S Net; Simulation Team - Italy/
 USA

Wednesday, September 14, 2011 9:00-10:30

Room: Sabratha

IMAACA: Industrial Applications of Modeling and Control

Chair: Sergio Junco, Universidad Nacional de Rosario, Argentina

**IMAACA_9: Modeling of Flexural Vibration of Rotating Shaft with in-span Discrete External
 Damping**

Vikas Rastogi, Amalendu Mukherjee, Anirban Dasgupta
 Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology; Mechanical
 Engineering Department, Indian Institute of Technology - India

IMAACA_16: A Model for Dynamic Feed-Forward Control of a Semi-active Damper
 Andreas Unger, Enrico Pellegrini, Kay-Uwe Henning, Boris Lohmann
 Institute of Automatic Control, Fakultät Maschinenwesen, Technische Universität München - Germany

IMAACA_20: Modelling and Control of an Effort Feedback Actuator In Helicopter Flight Control Using Energetic Macroscopic Representation
 Mikael Martin, Julien Gomand, François Malburet, Pierre-Jean Barre
 LSIS, Arts et Métier ParisTech - France

IMAACA_58: Modeling Multiphase Flow Dynamics In Offshore Petroleum Production Systems
 Rafael Horschutz Nemoto, Jorge Luis Baliño
 Departamento de Engenharia Mecânica, Escola Politécnica, Universidade de São Paulo - Brazil

IMAACA_40: Development of A Transfer-Case Control system for Rear Wheel Based 4WD Vehicles
 Woosung Park, Hyeongjin Ham, Kanghee Won, Hyeongcheol Lee
 Department of Electrical Engineering, Hanyang University; Division of Electrical and Instrumentation Biomedical Engineering, Hanyang University - South Korea

Wednesday, September 14, 2011 10:30-11:00

COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar

Wednesday, September 14, 2011 11:00-12:30

Room: Massalia I

EMSS: Cloud Simulation and High Performance Computing - Session 1

Chair(s): Paolo Proietti, Selex Elsag, Italy; Prof. Lin Zhang, Beihang University, China

EMSS_32: Study on the servilization of simulation capability
 Y L Luo, L Zhang, F Tao, Y Bao, L Ren
 School of Automation Science and Electrical Engineering, Beihang University - China

EMSS_35: Modeling and Simulation Architecture For Cloud Computing and Internet of Things (IoT) Based Distributed Cyber-Physical Systems (DCPS)
 Lulu Xie, Zhongjie Wang
 College of Electronics and Information Engineering, Tongji University - China

EMSS_65: Modelling Resilience in Cloud-Scale Data Centres
 John Cartlidge, Ilango Sriram
 Department of Computer Science, University of Bristol - UK

EMSS_102: Key Issues In Cloud Simulation Platform Based On Cloud Computing
 Lei Ren, Lin Zhang, Yabin Zhang, Yongliang Luo, Qian Li
 School of Automation Science and Electrical Engineering, Beihang University; Beijing Simulation Center; School of Information Technology, Shandong Institute of Commerce and Technology - China

EMSS_103: Research On Key Technologies of Resource Management in Cloud Simulation Platform
 Lin Ting Yu, Chai Xu Dong, Li Bo Hu
 School of Automatic Science and Electrical Engineering, BeiHang University; Beijing Simulation Center, Second Academy of Aerospace Science & Industry Co; School of Automatic Science and Electrical Engineering, BeiHang University - China

Wednesday, September 14, 2011 11:00-12:30

Room: Massalia II

EMSS: Modelling, Simulation, Optimization**Chair: Idalia Flores, University of Mexico, Mexico**

EMSS_134: Plant Capacity Analysis in a Dairy Company, Applying Montecarlo Simulation
 Joselito Medina-Marin, Gilberto Perez-Lechuga, Juan Carlos Seck-Tuoh-Mora, Norberto Hernandez-Romero, Isaias Simon-Marmolejo

Advanced Research Centre in Industrial Engineering, Autonomous University of Hidalgo State; Superior School of Cd. Sahagún, Autonomous University of Hidalgo State - Mexico

EMSS_14: Temporal Neuro-Fuzzy Systems in Fault Diagnosis and Prognosis

Rafik Mahdaoui, Leila Hayet Mouss, Djamel Mouss, Ouahiba Chouhal
 Université de Batna - Algeria

EMSS_138: Research on co-simulation task scheduling in Cloud Simulation Platform

Chen Yang, Bo Hu Li, Xudong Chai

Beijing University of Aeronautics and Astronautics; Beijing Simulation Center - China

MAS_100: Modeling Psychological Messages and Their Propagation

Colette Faucher

LSIS, Laboratoire des Sciences de l'Information et des Systèmes, Université Paul Cézanne - France

Wednesday, September 14, 2011 11:00-12:30

Room: Mylasa

EMSS: Methodologies, Technologies and Applications MS - Session 2**Chair: Claudia Frydman, LSIS, France**

EMSS_135: GPGPU Programming And Cellular Automata: Implementation Of The Sciara Lava Flow Simulation Code

Giuseppe Filippone, William Spataro, Giuseppe Spingola, Donato D'Ambrosio, Rocco Rongo, Giovanni Perna, Salvatore Di Gregorio

Department of Mathematics and HPCC, University of Calabria; Department of Earth Sciences and HPCC, University of Calabria - Italy

EMSS_49: On The Use Of Minimum-Bias Computer Experimental Designs

Husam Hamad

Electronic Engineering Department

Hijjawi College of Engineering Technology

Yarmouk University - Jordan

EMSS_51: A Practical Guide for the Initialisation of Multi-Agent Systems with Random Number

Sequences from Aggregated Correlation Data

Volker Nissen, Danilo Saft

Ilmenau Technical University, Faculty of Economics - Germany

EMSS_52: Multi-agent Multi-level Modeling – A methodology to Simulate Complex Systems

Jean-Baptiste Soyez, Gildas Morvan, Rochdi Merzouki, Daniel Dupont

Univ. Lille Nord de France; LAGIS UMR CNRS; LGI2A, Univ. Artois Technoparc Futura; HEI Hautes Études d'Ingénieurs - France

MAS_99: A Process Mining Approach Based on Trace Alignment Information for Very Large Sequential Processes with Duplicated Activities

Pamela Viale, Claudia Frydman, Jacques Pinaton

Laboratoire des Sciences de l'Information et des Systèmes; STMicroelectronics - Argentina/ France

Wednesday, September 14, 2011 11:00-12:30*Room: Cesarea***MAS: Modeling and Applied Simulation - Session 2****Chair: Janos Sebestyen Janosy, MTA KFKI Atomic Energy Research Institute, Hungary**

MAS_102: Competition and Information: Cumana a Web Serious Game for Education in the Industrial World

Marina Massei, Alberto Tremori, Alberto Pessina, Federico Tarone
MISS-DIPTEM, University of Genoa; Simulation Team - Italy

MAS_78: Evaluation of the Performance of Solar Air Collector by Using Bond Graph Approach

Hatem Oueslati, Salah Ben Mabrouk, Abdelkader Mami

Laboratoire d'Energétique et Procédés Thermiques (LEPT), Centre de Recherches et des Technologies de l'Energie (CRTE); Laboratoire Analyse et Commande des Systèmes, École Nationale d'Ingénieurs de Tunis - Tunisia

MAS_81: Logical Operator Usage in Structural Modelling

Leva Zeltmate

Riga Technical University, Faculty of Computer Science and Information Technology, Department of System Theory and Design - Latvia

MAS_85: Scheduling Patients Based on Provider's Availability

Jose Sepulveda, Waldemar Karwowski, Francisco Ramis, Pablo Concha
University of Central Florida, Orlando - Chile/ USA

MAS_24: Analysis of a Warehouse Management System for Perishable Products by Means of Simulation Experiments

Giuseppe Aiello, Mario Enea, Muriana Cinzia

Dipartimento di Ingegneria Chimica, Gestionale, Informatica e Meccanica, University of Palermo - Italy

Wednesday, September 14, 2011 11:00-12:30*Room: Hama***DHSS: LVC Simulation and Human Behavior Modeling - session 1****Chair: Agatino Mursia, Selex Elsag Italy**

DHSS_12: Is LVC a Pandora for all Training Needs?

Ian McVeigh, Jon Sackett

AgustaWestland - UK

DHSS_15: Distributed Simulation Science

Margaret Loper

Georgia Tech Research Institute - USA

DHSS_14: Simulated Realtime Multi-Channel IQ Data Generator For an Aesa Radar

Romolo Gordini, Michele Giorgiutti

SELEX Galileo S.p.A - Italy

DHSS_13: Distributed Simulation of Electronic Warfare Command and Control Scenarios

Sergio Tortora, Davide Cannone, Massimo Giovacchin, Giuseppe Italiano, Maurizio Naldi, Andrea Sindico
Elettronica S.p.A.; University of Rome "Tor Vergata" - Italy

DHSS_17: Cultural Considerations in a Simulated Emergency

Elizabeth Whitaker, Rita Gonzalez, Ethan Trehwitt, Reid MacTavish, Margaret Loper
Georgia Tech Research Institute - USA

Wednesday, September 14, 2011 11:00-12:30

Room: Sabratha

IMAACA: Mathematical Methods with Applications in Control and Optimization

Chair: Sergio Junco, Universidad Nacional de Rosario, Argentina

IMAACA_8: Analysis of Controlled Semi-Markov Queueing Models

Victor Kashtanov, Elizaveta Kondrashova

Department of Operation research, Moscow State Institute of Electronics and Mathematics - Russia

IMAACA_12: Reducing Computation Time in Optimization Procedure for Fixture Layout based on SwarmItFIX

Xiong Li, Matteo Zoppi, Rezia Molfino

DIMEC, University of Genoa - Italy

IMAACA_13: Robust Trajectory Tracking Problem: Cheap Control Approach

Vladimir Turetsky, Valery Glizer

Department of Mathematics, Ort Braude College - Israel

IMAACA_14: Integrated Damping Parameters and Servo Controller Design for Optimal H2 Performance in Hard Disk Drives

Tingting Gao, Weijie Sun, Chunling Du, Lihua Xie

School of EEE, Nanyang Technological University - Singapore

IMAACA_28: A Final Marking Planning Method for Join Free Timed Continuous Petri Nets

Hanife Apaydin Özkan, Aydin Aybar

- Turkey

Wednesday, September 14, 2011 11:00-12:30

LUNCH Co-Sponsored by CAE, CAL-TEK, MAST

Wednesday, September 14, 2011 13:30-15:00

Room: Massalia I

EMSS: Agent Directed MS - Session 1

Chair: Claudia Frydman, LSIS, France

EMSS_23: An Agent-Based Information Foraging Model of Scientific Knowledge Creation and Spillover in Open Science Communities

Ozgur Ozmen, Levent Yilmaz

Auburn University - USA

EMSS_34: Fast Marching Method Based Path Planning For Wheeled Mobile Robots

Gregor Klančar, Gasper Music

University of Ljubljana - Slovenia

EMSS_40: Job Satisfaction Modelling in Agent-Based Simulations

Alexander Tarvid

University of Latvia - Latvia

EMSS_81: Simulation Of Human Behavior In Situation Of Emergency

Benkhedda Samira, Bendella Fatima, Belmabrouk Karima

SIMPA Laboratory, Department of Computer Science, University of Science and Technology of Oran - Algeria

EMSS_97: A High Resolution Distributed Agent-Based Simulation Environment for Large-Scale Emergency Response

Glenn Hawe, Graham Coates, Duncan Wilson, Roger Crouch
School of Engineering and Computing Sciences, Durham University - UK

Wednesday, September 14, 2011 13:30-15:00

Massalia II

Joint Meeting for McLeod Institute of Simulation Science & MSNet Directors

Wednesday, September 14, 2011 13:30-15:00

Room: Mylasa

EMSS: Methodologies, Technologies and Applications MS - Session 3

Chair: Wenhui Fan, Tsinghua University, China; Michele Turi, DIMS, Italy

EMSS_64: Insights into the Practice of Expert Simulation Modellers

Rizwan Ahmed, Mahmood H. Shah

Lahore Business School University of Lahore; Lancashire Business School, University of Central Lancashire - UK

EMSS_67: Global Context Influences Local Decisions

Terry Bossomaier, Michael Harré

CRiCS (Centre for Research in Complex Systems) Charles Sturt University - Australia

EMSS_69: A Business Process Modeling Approach To Support Production Systems Analysis And Simulation

Claudia Battista, Giulia Dello Stritto, Francesco Giordano, Raffaele Iannone, Massimiliano M. Schiraldi
"Tor Vergata" University of Rome, Department of Enterprise Engineering; University of Salerno, Department of Industrial Engineering - Italy

EMSS_70: Online Collaborative Simulation Conceptual Model Development

Bhakti S. S. Onggo, Suchismita Hoare

Department of Management Science, Lancaster University Management School; b) Digital Modelling Research Group (Faculty of S & T), Anglia Ruskin University - UK

EMSS_100: Agent-Based Simulation of Electronic Marketplaces With Ontology-Services

Maria João Viamonte, Nuno Silva, Paulo Maio

GECAD - Knowledge Engineering and Decision Support Research Group, Institute of Engineering of Porto - Portugal

Wednesday, September 14, 2011 13:30-15:00

Room: Cesarea

HMS: Innovative Transport Systems for Urban Areas - session 1

Chair: Elvezia M. Cepolina, University of Pisa, Italy

HMS_8: A car Sharing System for Urban Areas with Fully Automated Personal Vehicles

Cepolina E.M., Farina A., Holloway C.

University of Pisa; University College of London - Italy/ UK

HMS_16: Modelling of Urban Pedestrian Environments for Simulation of the Motion of Small Vehicles

Elvezia Maria Cepolina, Nick Tyler, Clement Boussard, Alessandro Farina, Catherine Holloway
University of Pisa; ARG, University College London; IMARA, INRIA Paris-Rocquencourt; University of
Pisa; ARG, University College London - Italy/ UK

HMS_20: Evaluation Methodology of The Impacts of Bus Rapid Transit Corridors (BRT) in Livorno
Network

Claudio Disperati, Saverio Gini, Giorgio Ambrosino
MemEx s.r.l. - Italy/ UK

HMS_44: Bus for HLS lines in Urban Context
Domenico Gattuso, Antonio Restuccia
Università Mediterranea di Reggio Calabria - Italy

HMS_45: Modeling The Empty Container Flow: Identifying Primary Influencing Factors Through Scenario
Analysis

Mandar Tulpule, Rafael Diaz, Joshua G. Behr, Francesco Longo
Virginia, Modeling, Analysis and Simulation Center, Old Dominion University; Modeling & Simulation
Center - Laboratory of Enterprise Solutions, University of Calabria - Italy/ USA

Wednesday, September 14, 201 13:30-15:00

Room: Hama

DHSS: SBA and Netcentric Warfare Simulation - session 1

Chair: John A. Sokolowski, Virginia Modeling, Analysis and Simulation Center, VA, USA

DHSS_3: Interface Forms for an Underwater Warfare Simulation Environment

Kyung-Min Seo, Changbeom Choi, Jung Hoon Kim, Tag Gon Kim
Korea Advanced Institute of Science and Technology; Naval Systems R&D Institute, Agency for Defense
Development - South Korea

DHSS_21: Verification Methodology for Simulation Model based on System Morphism

Changbeom Choi, Jangwon Bae, Minwook Yoo, Tag Gon Kim, Soohan Kim
Korea Advanced Institute of Science and Technology; Video Display Biz. Technical Planning Group,
SAMSUNG Electronics HQ - South Korea

DHSS_23: DEVS-Based Validation Of UAV Path Planning In Hostile Environments

Alejandro Moreno, Luis de la Torre, José L. Risco-Martín, Eva Besada-Portas, Joaquín Aranda Almansa
Univ. Nacional de Educación a Distancia Spain; Univ. Complutense de Madrid - Spain

DHSS_18: A Canadian Approach Towards Network Enabled Capabilities – I: Simulation Validation &
Illustrative Examples

Rick McCourt, Kevin Ng, Roy Mitchell
Centre for Operational Research and Development, Defence Research and Development Canada;
University of Ottawa - Canada

DHSS_28: CAPRICORN: Using Intelligent Agents and Interoperable Simulation for Supporting Country
Reconstruction

Agostino Bruzzone, Marina Massei, Alberto Tremori, Enrico Bocca, Francesca Madeo, Federico Tarone
MISS DIPTTEM University of Genoa; Mast srl; Simulation Team - Italy

Wednesday, September 14, 201 13:30-15:00

Room: Sabratha

IMAACA: System Identification

Chair: Sergio Junco, Universidad Nacional de Rosario, Argentina

IMAACA_11: A Recursive Nonlinear System Identification Method Based On Binary Measurements
 Laurent Bourgois, Jérôme Juillard
 SUPELEC E3S - France

IMAACA_18: Autofocusing Slow-moving Objects Sensed by an Airborne Synthetic Aperture Radar SAR
 José Luis Pasciaroni, Juan Edmundo Cousseau, Néida Beatriz Gálvez
 DIEC - CONICET - Universidad Nacional del Sur; SIAG - Base Naval Puerto Belgrano - Argentina

IMAACA_25: Identification by Hybrid Algorithm: Application to the identification of Dynamics Parameters of Synchronous Machine
 Jean N. Razafinjaka, Jean Claude A. Rakotoarisoa
 Laboratoire d'Automatique, Ecole Supérieure Polytechnique - Madagascar

IMAACA_52: Monitoring Steady-State Gains In Large Process Systems
 Germán A. Bustos, José L. Godoy, Alejandro H. González, Jacinto L. Marchetti
 INTEC (CONICET and Universidad Nacional del Litoral) - Argentina

Wednesday, September 14, 201 15:00-15:30

COFFEE BREAK Co-Sponsored by PRESAGIS - Exhibition Area: Leptis Magna IV and Bar

Wednesday, September 14, 201 15:30-17:00

Room: Massalia I

MAS: Artificial Intelligence Techniques - session 1

Chair: Yilin Huang , Delft University of Technology, Netherlands

MAS_18: Solving Fully Fuzzy Linear Programming Problem with equality and inequality constraints
 Ahmad Jafarnejad, Mahnaz Hosseinzadeh, Hamed Mohammadi Kangarani
 Faculty of Management, University of Tehran; University of social welfare and rehabilitation sciences, Tehran - Iran

MAS_36: Genetic Algorithm approach to modelling fractal manufacturing layout
 Sameh Saad, Julian Aririguzo
 Faculty of Arts, Computing, Engineering and Sciences, Sheffield Hallam University - UK

MAS_53: Dynamic Spectrum Management with Minimizing Power Allocation
 Tawiwat Veeraklaew, Settapong Malisuwan
 Laboratory of Mechanical and Aeronautic Engineerings, Defence Technology Institute, THAILAND;
 Dynamic Spectrum Management Project Dynamic Spectrum Management Project - Thailand

MAS_66: New Evolutionary Algorithm Based on Particle Swarm Optimization and Adaptive Plan System With Genetic Algorithm
 Pham Ngoc Hieu, Hiroshi Hasegawa
 Functional Control Systems - Graduate School of Engineering and Science, Shibaura Institute of Technology; Department of Systems Engineering and Science, Graduate School of Engineering and Science, Shibaura Institute of Technology - Japan

MAS_27: Multi-Objective Optimization in Urban Design
 Michele Bruno, Kerri Henderson, Hong Min Kim
 Columbia University - USA

Wednesday, September 14, 201 15:30-17:00

Room: Massalia II

EMSS: Human-centred and Human-focused Modelling and Simulation - Session 1

Chair: Gaby Neumann, Technical University of Applied Sciences Wildau, Germany

EMSS_53: Indoor Pedestrian Navigation Simulation Via A Network Framework

John Usher, Eric Kolstad

Dept. of Industrial & Systems Engineering, Mississippi State University - USA

EMSS_85: Experimental Manufacturing System For Research And Training On Human-Centred Simulation

Diego Crespo Pereira, David del Rio Vilas, Rosa Rios Prado, Nadia Rego Monteil, Adolfo Lamas Rodriguez

Integrated Group for Engineering Research (GII), University of A Coruña - Spain

EMSS_113: How to Benefit more from intuitive Power and Experience of the Human Simulation Knowledge Stakeholder

Gaby Neumann

Faculty of Engineering / Industrial Engineering Technical University of Applied Sciences Wildau - Germany

EMSS_145: Developing a Simulation Training Tool from a Medical Protocol

Catherine M. Banks, John A. Sokolowski

Virginia Modeling, Analysis and Simulation Center, Old Dominion University - USA

EMSS_26: Using Semantic Web Technologies To Compose Live Virtual Constructive (Lvc) Systems

Warren Bizub, Julia Brandt, Meggan Schoenberg

Joint Advanced Concepts, Joint and Coalition Warfighting; General Dynamics Information Technology; U.S. Navy, Naval Sea Systems Command - USA

Wednesday, September 14, 2011 15:30-17:00

Room: Mylasa

EMSS: Methodologies, Technologies and Applications MS - Session 4

Chair: Gerson Cunha, GRVA Lamce, UFRJ, Brazil

EMSS_79: Simulation and Model Calibration With Sensitivity Analysis For Threat Detection in The Brain

Keegan Lowenstein, Brian Leventhal, Kylie Drouin, Robert Dowman, Katie Fowler, Sumona Mondal

Clarkson University, Department of Computer Science; Clarkson University, Department of Mathematics; Clarkson University, Department of Psychology - USA

EMSS_108: Development Of The Surface To Air Missile Simulator Through The Process Of Component Composition And Dynamic Reconfiguration Of Weapon System

Jeebeom Suk, Jaeoh Lee, Yoonho Seo

Department of Industrial Management Engineering, Korea University - South Korea

EMSS_130: Formal Framework For The Devs-Driven Modeling Language

Ufuoma Ighoroje, Oumar Maïga, Mamadou Traoré

African University of Science and Technology; University of Bamako; Blaise Pascal University - Mali/ Nigeria/ France

EMSS_61: A Methodology For Developing Des Models: Event Graphs And Sharpsim

Arda Ceylan, Murat Gunal

Institute of Naval Science and Engineering
 Turkish Naval Academy; Department of Industrial Engineering
 Turkish Naval Academy - Turkey

MAS_101: NAV – The Advanced Visualization Station: a Mobile Computing Center for Engineering Project Support

Gabriel A. Fernandes, Gerson G. Cunha, Tiago Mota, Celia Lopes
 Universidade Federal do Rio de Janeiro - Brazil

Wednesday, September 14, 2011 15:30-17:00

Room: Cesarea

HMS: Simulation of Transportation and Intermodal Systems - session 1

Chair: Toni Guasch, Universitat Politècnica de Catalunya, Spain

HMS_10: Intelligent Supervision Of Autonomous Heavy Vehicles : Application To Maritime Area
 Nizar Chatti, Wissam Khalil, Anne-Lise Gehin, Belkacem Ould-Bouamama, Rochdi Merzouki
 LAGIS, CNRS-FRE 3303, Polytech'Lille - France

HMS_31: Efficiency of Triple Left-Turn Lanes at Signalized Intersections

Khaled Shaaban

Department of Civil Engineering, Qatar University - Qatar

HMS_36: D²CTS : a Dynamic and Distributed Container Terminal Simulator

Gaëtan Lesauvage, Stefan Balev, Frédéric Guinand

Université du Havre - France

HMS_41: GLOBALOG: A Simulation case of Freight Multimodal Transportation

Rosa Rios Prado, Diego Crespo Pereira, David del Rio Vilas, Nadia Rego Monteil

Integrated Group for Engineering Research, University of A Coruna - Spain

HMS_29: Logistic Model For The Distribution of Goods in The E-Grocery Industry: A New Adaptation of The Vehicle Routing Problem

Beatriz García Jiménez, Fernando Gómez González

Iberia Client Solutions, Uti; Departamento de Sistemas Informáticos, Escuela Técnica Superior de Ingeniería ICAI, Universidad Pontificia Comillas de Madrid - Spain

Wednesday, September 14, 2011 15:30-17:00

Room: Hama

DHSS: Adaptive and predictive computer-based tutoring - session1

Chair: Robert Sottolare, Army Research Laboratory, USA

DHSS_8: Realtime Clustering of Unlabelled Sensory Data for Trainee State Assessment

Keith Brawner, Avelino Gonzalez

Army Research Laboratory – Human Research & Engineering Directorate; University of Central Florida - USA

DHSS_9: The Impact Of Student Expectations And Tutor Acceptance On Computer-Based Learning Environment Acceptance And Future Usage Intentions

Heather Holden, Benjamin Goldberg

U.S. Army Research Laboratory – Human Research and Engineering Directorate Simulation and Training Technology Center - USA

DHSS_16: Research Gaps For Adaptive and Predictive Computer-Based Tutoring Systems

Robert Sottolare, Stephen Goldberg, Paula Durlach
U.S. Army Research Laboratory – Human Research and Engineering Directorate; U.S. Army Research Institute - USA

DHSS_20: Incorporating Reflection into Learner and Instructor Models For Adaptive And Predictive Computer-Based Tutoring
Elaine Raybourn
Sandia National Laboratories and Advanced Distributed Learning Initiative - USA

DHSS_4: Excel-Based Analysis and Dynamisation of Probabilities for Logistics Planning
Markus Klug, Andreas Alexa
University of Applied Sciences Technikum Vienna; Austrian National Defence Academy - Austria

Wednesday, September 14, 2011 15:30-17:00

Room: Sabratha

MAS Modelling & Simulation Applications

Chair: Miquel Angel Piera, UAB

MAS_105: Command Feedback and Response (CFR) - The Evolution of Command & Control in an Immersive and Interactive Environment (C2I2)
Marco Biagini, Michele Turi
DIMS (Department of Mathematic Engineering and Simulation), Genova University - Italy

MAS_100: Modeling Psychological Messages and Their Propagation
Colette Faucher
LSIS, Laboratoire des Sciences de l'Information et des Systèmes, Université Paul Cézanne - France

EMSS_114: Object-oriented modelling and verification aided by model simplification techniques
Anton Sodja, Borut Zupancic
Faculty of Electrical Engineering, University of Ljubljana - Slovenia

EMSS_147: Model Synthesis Using A Multi-Agent Learning Strategy
Sebastian Bohlmann, Arne Klauke, Volkhard Klinger, Helena Szczerbicka
Department of Simulation and Modeling, Leibniz University Hannover; Department of Embedded Systems, FHDW Hannover - Germany

HMS_46: A System Dynamics Approach To Modeling The Cost Elements Of Chronic Disease Management Interventions
Rafael Diaz, Mandar Tulpule, Joshua G. Behr
Virginia, Modeling, Analysis and Simulation Center, Old Dominion University - USA

Wednesday, September 14, 2011 17:15-18:45

Room: Leptis Magna IV

Special Joint I3M/CAX Forum Session on Border Security & Pandemics

Chair: Joseph Rosen, Dartmouth College, USA

"Simulating Pandemics & Border Security" J.Rosen - Dartmouth College, USA

"The Dark Winter Exercise" J.Riess - Educational Training Solution, USA

"Security and Safety Training",
G.Santos -Dartmouth College, USA

"Border Security & Pandemics", E.Santos, IDS UTEP, USA

Wednesday, September 14, 2011 19:00-19:30

I3M Closing Ceremony

Social Event

Thursday 14:00-17:00

Guided Tour to Vatican Museum

Due to Limited Seats please book early as possible and Complete on CAX Forum Desk Your Registration; the Visit is a special event Organized for Conference Attendees; Further info is available on the web under Related Events and Social Events

General Regulations

-CAX Forum attendees in order to access I3M / DHSS/ EMSS/ IMAACA/ MAS Scientific Sessions need to finalize the registration for the access at I3M registration Desk

-I3M/DHSS/EMSS/HMS/IMAACA/MAS Attendees are entitled to assist for free to the Unclassified CAX Forum Sessions on going from Monday afternoon till Thursday morning in Leptis Magna IV and Tarragona Rooms

I3M Co-Located Event September 12-15, 2011

CAX Forum

CAX Forum, Monday, September 12, 2011 13:30-15:00

Room: Leptis Magna IV

CAX Process (JWC)

CAX Forum, Monday, September 12, 2011 13:30-15:00

Room: Tarragona

Interoperable simulation (MISS DIPTM)

CAX Forum, Monday, September 12, 2011 15:30-17:00

Room: Leptis Magna IV

CAX Process (JWC)

CAX Forum, Monday, September 12, 2011 15:30-17:00

Room: Tarragona

Interoperable simulation (MISS DIPTM)

CAX Forum, Tuesday, September 13, 2011 9:00-10:30

Room: Leptis Magna IV

Distributed Training & Events (HQ SACT JET/ M&S COE / JWC)

CAX Forum, Tuesday, September 13, 2011 9:00-10:30

Room: Tarragona

MEL/MIL Tools & Synchronization (M&S COE / JWC)

CAX Forum, Tuesday, September 13, 2011 11:00-12:30*Room: Leptis Magna IV*

Distributed Training & Events (JWC)

CAX Forum, Tuesday, September 13, 2011 11:00-12:30*Room: Tarragona*

CAX support Tools during an exercise (JWC)

CAX Forum, Tuesday, September 13, 2011 13:30-15:00*Room: Leptis Magna IV*

NATO M&S overview (NMSG, SACT, JWC)

CAX Forum, Tuesday, September 13, 2011 13:30-15:00**CAX Forum, Tuesday, September 13, 2011 15:30-17:00***Room: Leptis Magna IV*

NATO Models Updates: JTLS, JCATS, VBS2 (Rolands, Lawrence Livermore, Bohemia Interactive)

CAX Forum, Tuesday, September 13, 2011 15:30-17:00**CAX Forum, Wednesday, September 14, 2011 9:00-10:30***Room: Leptis Magna IV*

Special Topics Cyberdefense, ALTBMD, CBRN

CAX Forum, Wednesday, September 14, 2011 9:00-10:30*Room: Tarragona*

Cloud Computing & Virtualization (JWC)

CAX Forum, Wednesday, September 14, 2011 11:00-12:30*Room: Leptis Magna IV*

Data for Simulation (Presagis, MS COE, Selex, France MoD)

CAX Forum, Wednesday, September 14, 2011 11:00-12:30*Room: Tarragona*

Complex Crisis Simulation (McLeod Inst., Dartmouth, LLNL)

CAX Forum, Wednesday, September 14, 2011 13:30-15:00*Room: Leptis Magna IV*

M&S COE (Italian MoD, Selex SI)

CAX Forum, Wednesday, September 14, 2011 13:30-15:00*Room: Tarragona*

Data Security (CCD, JWC, TNO)

CAX Forum, Wednesday, September 14, 2011 15:30-17:00*Room: Leptis Magna IV*

CAX Training (BLG MOD, DMO, DLSELFDTs, Plexsys)

CAX Forum, Wednesday, September 14, 2011 15:30-17:00*Room: Tarragona*

Irregular Threats (ICTAC, VMASC, DIPTeM)

CAX Forum, Wednesday, September 14, 2011 9:00-10:30

Room: Leptis Magna IV
System Demonstrations

CAX Forum, Wednesday, September 14, 2011 9:00-10:30

Room: Tarragona

National Simulation Centres & NATO Training Centres

CAX Forum, Wednesday, September 14, 2011 11:00-12:30

Room: Leptis Magna IV

CAX Forum Closing Session

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 I3M2011:

-International Journal of Simulation and Process Modeling

Special Issue: Multidisciplinary Approach to Complex Systems Design and Management: Modeling & Simulation based Methodologies and Tools

-International Journal of Simulation and Process Modeling

Special Issue: Research Challenges in Developing Advanced Solutions in Industry and Supply Chains: Modelling and Simulation for Building 21st Century Enterprises

-International Journal of Defense Modeling and Simulation

Special Issue on: Simulation and Intelligent Agents to support Defense and Homeland Security

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.

I3M Hotel and Venue

the I3M 2011 multiconference will be held at Ergife Palace Hotel in Rome

Rooms Rates, Conditions and Reservation at Ergife Palace Hotel

The organizing committee has arranged special rooms rates for I3M 2011 participants booking at the Ergife Palace Hotel:

-Single Room: 130.00 euro/night; this rate includes the international breakfast and the conference luncheon for one person (note that the luncheon is included in the rate only during the three conference days)

-Double Room: 145.00 euro/night; this rate includes the international breakfast for two persons and the conference luncheon for one person (note that the conference luncheon is included in the rate only during the three conference days; the eventual additional conference luncheon for the second guest will be charged at 30.00 euro/person)

Please note that conference luncheons will be not provided to those participants that book in a different hotel. The rates listed above include free wi-fi connection in the conference area. You make your reservation at the Ergife Palace Hotel by filling the booking form on www.msc-les/conf/i3m2011 and sending it to venue.I3M2011@msc-les.org

I3M and CAX Forum Shuttle Bus Transportation

A shuttle bus will be available from the Ergife Palace Hotel to the Leonardo da Vinci International Airport (not vice-versa), please ask to CAX Forum Desk for Details

Author and Chair Guidelines for I3M2011

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 I3M2011 Quality Assessment Forms for providing your feedback, thanks in advance for your support.

I3M2012, Wien Austria

I3M2012 will be held next year in Wien, Austria during September. 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/i3m2012.html or write to I3M2012 Program Chair Francesco Longo (f.longo@unical.it)

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