International Mediterranean Modeling Multiconference

Genoa, Italy, October 28-30 2004

I3M 2004

Call for Papers

MAS 2004
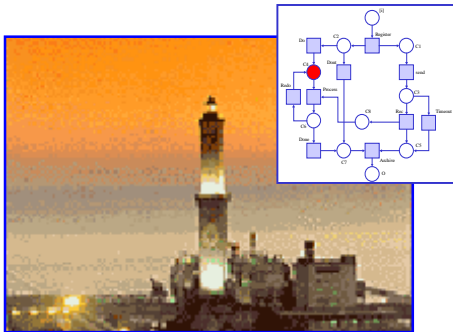
General Chairs	Program Chairs
A.G.Bruzzone, N.Giambiasi	*C.Frydman, R.Mosca*
MISS Genoa LSIS	COSI DIP

Conference Chairs

AVCS2004
A. Rachid, M. Ouladsine

ELSSC2004
D.R.C.Hill

MAS2004
R.Revetria, R.Signorile

CSM2004
F.Barros, C.Frydman

IMAACA2004
G.Dauphin-Tanguy, S.Junco

www.liophant.org/i_m_cs/i3m2004

For Further Information please contact:

Marina Massei
McLeod Institute of Simulation Science
via C.Colombo 68/3
17019 Varazze (SV) Italy
Tel: +39 019 264555 Fax +39 019 264558
Email massei@itim.unige.it

Norbert Giambiasi
LSIS
Avenue EscadrilleNormandie-Niemen
13397 - Marseille - France
Tel: +33 491056054 Fax: +33 491056033
Email: norbert.giambiasi@lsis.org

MAS2004: *The International Workshop on Modeling & Applied Simulation*

The MAS Workshop concentrates on applied Modeling & simulation (M&S) and computer technology; application fields include logistics, Supply Chain management, production control, business and industrial organization. In this contest editions worldwide specialist have the opportunity to present new advanced applications as well to work forward for establish new international co-operation and projects.

This event is the ideal framework for setting up European Community and International Projects and it could be used as a framework for hosting project review meeting and project exploitation.

The audience includes both users, vendors and scientists operating in applying advanced techniques to industry, business and services.

Applications include: BPR, Business Intelligence, Company Intelligent Management, CRM, Decision Making, Emergency Planning & Management, ERP, Financial Planning, Health Care Systems, Human Resource Management, Intelligent Forecasting, Information Support Systems, Infrastructure Planning & Design, Inventory Management, Logistics Networks, Military Applications, PDM Production Planning & Management, Project Management, Public Services, Sales Forecasting, Scheduling, Strategic Decision, Supply Chain Management.

Topics include: AI, ANN, Automation, Customer Satisfaction, Concurrent Engineering, Data Fusion, Data Warehousing, DSS, Electronic Data Interchange, Environment Management, Fuzzy Logic, GAs, Industrial Engineering, KBS, Logistics & Manufacturing, Organization, Process Industry, Production Simulation, Strategic Consulting, TQM, Resources Planning, Safety, Security & Intelligence.

AVCS2004: *International Conference on Advances in Vehicle Control and Safety*

AVCS2004 is sponsored by SCS, The Society for Modeling and Simulation International and by IEEE Control Systems Society. Authors are invited to submit full papers describing original work in all aspects of engineering techniques applied to vehicles such as: Vehicle Dynamics, Mobile Robotics, Hybrid & Electrical Vehicles, Power train Modeling & Control, Intelligent Vehicle Highway System, Robust Control, Optimization, System Identification, Adaptive Control, Fuzzy Logic/Neural Control, Nonlinear Control, Estimation Methods, Safety,Fault Tolerance, Vibration Control, Combustion Processes, Man-Machine Interface, Sensor Data Fusion, On board Computers, Monitoring & Diagnostics, Modeling & Simulation

ELSSC2004: *1st Environmental and Life Science Simulation Conference*

The main goal of this multi-disciplinary conference is to bridge the fields of computer science, biology (from environmental sciences to genomics), mathematics, physics, chemistry by bringing together involved scientists from all over the world. This should enhance and facilitate contacts and dialogs between the different specialists of Life Sciences. Since 10 years the life science modelling took benefits from recent (and less recent) techniques of computer science : Oriented-Objects Languages, Discrete Event Simulation, Neural networks, Markov Chains, Concepts of Agents and Actors, Finite Elements, Fuzzy Logic, UML, GIS interface, Web-based simulation, Parallel and distributed simulation, Web-Services and Grid computing for Life Science. Papers reporting on cutting-edge research in all areas of Life Science simulation and modelling in the broad sense are welcome (application / methodology papers). All Retained papers will be presented in a 25 minutes talk. In addition to ISBN proceedings. A special issue of the SCI indexed SIMULATION journal (Transactions of the Society for Modeling and Simulation International) will publish the best papers in 2005. Of course the conference papers invited to the special issue will need to be extended and reviewed to meet a regular paper standard.

ELSSC 2004 is an open conference with a wide International program committee covering the major topics of Life Science simulation. As for instance a large list of topics is indicated : Ecological Modelling, Environmental models, management and assessment, Climate Change modelling and simulation, Waste management, Landscape management, Environnemental database management, Quality management, Catchment management, Sustainability, Computational Biology, Modelling of physical, biophysical and Chemical modelling, Bioinformatics (moddeling and simulation for : Transcriptome, Proteome, Metabolome, Interactome...), DNA Chips and Microarrays modelling applications, Modeling and Simulation of Biological Regulatory processes, Ecosystem dynamics, vegetation dynamics Terrestrial and oceanographic ecology, Population dynamics Diseases & epidemics, changes in biodiversity, genome, predator-prey relationships, fishing...), Population behaviour, Policy and decision aid models, Ethology and Individual behaviour, Hydrological modelling, Air pollution modelling, Applications of Agent Based simulation to Life Sciences and social sciences, Socio-Economic and environmental modelling, Water management.

CSM2004: *Conference on Conceptual Modeling and Simulation*

This new conference is a forum devoted to the discussion of advances in conceptual modeling and simulation. M&S activities have been enriched by contributions from complex domains that include dynamic structure, mobile agents and hybrid systems. Conceptual specification can give a major contribute to the design of more advanced simulation languages and environments that will support better to understand and maintain models. Conceptual models, while focusing on clear and precise semantics, provide a framework for describing and achieving model inter-operability, a key issue in model reuse. This conference is to serve as a meeting to exchange ideas between researchers working on different modeling approaches. Conference welcomes contributions with strong background in conceptual models, related (but not limited), to the following topics: Component-based M&S, DEVS Formalism, Dynamic Structure Systems, Formal Representation of Standards Formalism Equivalence, Hierarchical and Modular Systems, Hybrid Systems, Mobile Agents, Petri Nets, Real-time Systems, Timed-automata.

IMAACA2004: *Integrated Modeling & Analysis in Applied Control & Automation*

This conference will bring experts together for the purpose of presenting and discussing all type of application relevant control and automation problems emphasizing the role of model analysis as integral part of the complete design of the automated system. Particularly, it will focus on new concepts, methods, techniques, and tools conceived in order to support an integrative interplay of modeling, identification, simulation, system analysis and control theory in all the stages of system design. Topics include: Continuous/ Hybrid/ Fuzzy/ Lumped & Distributed Parameter/ Nonlinear/ Large Scale/ Switched Systems, Qualitative Modeling, Bond Graph, Numerical Methods, ANN, Order Reduction & Model Simplification, System Identification, Expert Systems, Adaptive/ Advanced/ Intelligent/ Multivariable/ Nonlinear/ Robust/ Networked Control Systems, Fault detection, Process Supervision, Software and Tools, CAD, Education. While Application Areas include: Aerospace, Agroindustries, Automation, Biomechanics and Prosthetics, Biomedical Engineering, Chemical Engineering Electrical and Power Systems, Electrical Drives, Environment, Food Industry, Mechatronics, Production Industry, Power Electronic Systems, Robotics and Mechanical Systems,, Transport.

Deadlines and Requirements: Please submit the full paper in PDF format (6 pages, double column, single spacing) by email to *i3m@itim.unige.it*. Accepted papers will be published in the Conference Proceedings edited by the SCS. The best papers will be considered for publication in special issues on Simulation Journals. For any questions about the conference please contact *massei@itim.unige.it*.

- **Special Session Proposal:**   **November 30, 2003**
- **Tutorial Proposal:**   **December 30, 2003**
- **Abstract/Draft Paper Submission:**   **February 15, 2004**
- **Acceptance Notification:**   **April 15, 2004**
- **Camera Ready Submission:**   **July 1, 2004**