Summersim

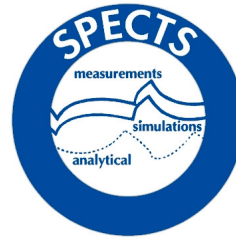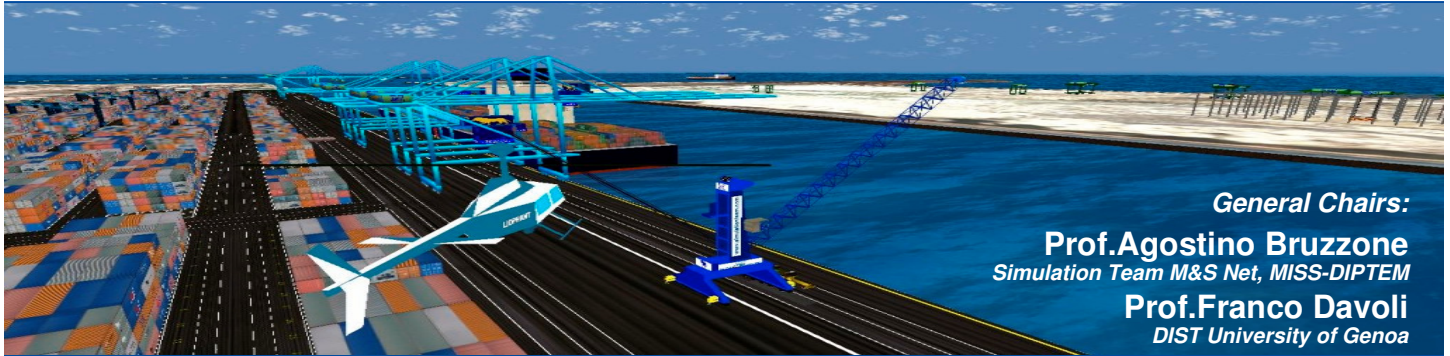**SPECTS** — measurements, simulations, analytical

GCMS

ICBGM

SCSC 2012

Architecture Complex, Genoa University
Stradone Sant'Agostino 11, Genoa, Italy
July 8-11, 2012

General Chairs:
Prof.Agostino Bruzzone
Simulation Team M&S Net, MISS-DIPTEM
Prof.Franco Davoli
DIST University of Genoa

SUMMERSIM 2012

Summersim is a large event usually organized in North America and Europe to provide the opportunity for publishingand presenting top quality scientific papers in the different areas of modeling & simulation (M&S). Focusing on several topical perspectives will illustrate the tremendous evolution of the modeling and simulation community. Summersim is really an international multiconference involving world experts in the area of M&S with special attention to methodologies, techniques and applications. The 2012 edition will be held in the core of the Italian Riviera providing participants with the opportunity to enjoy world famous beaches and locations such as Portofino, Cinque Terre, as well as a chance to visit Genoa, Maritime Republic, which, during the Middle Ages, was a Critical location in world history. Participants in SummerSim2012 are free to attend sessions and other activities in any of the constituent events, such as SPECTS, SCSC, ICBGM & GCMS. The Conference topics will include, among others, the following:

M&S Technologies
• Augmented Reality
• Common Training Architectures
• Constructive Simulation
• Continuous Simulation
• Data Fusion
• Data Mining
• Design of Experiments
• Discrete Event Simulation
• Distributed Interactive Simulation
• Experiential Digital Media
• High Level Architecture
• Human Behavior Models
• Live Simulation
• Modeling & Simulation Languages
• M&S System Architecture
• Parallel & Distributed M&S
• Real Time M&S
• Simulation Life-Cycle Evolution
• Simulation Software Engineering
• System Dynamics Representation
• Test & Training Enabling Architecture
• Virtual Reality
• Virtual Simulation
• Synthetic Environments
• VV&A
• Web-based Simulation

Computer Systems
• Distributed Architecture
• Computer Architectures
• Software
• Electronic Commerce
• Hardware and Software Monitors
• High-Performance Computing
• Security and Information Assurance

Industry & Business Practices
• Collaboration Environments
• Simulation-based Acquisition
• Economics of M&S
• Education for M&S Professional
• Future of Modeling & Simulation
• Information Systems
• Infrastructure Planning & Design
• Communications & Media
• Logistics
• Management Science
• Manufacturing
• Process Engineering
• Scheduling
• Standards
• Telecommunications

Networking and Telecommunication Systems
• Internet Technology
• Networking Techniques
• Broadband Networks
• Wireless Systems and Networks
• Multimedia Systems, Communications and Applications

Tools, Methodologies and Applications
• Bond Graph Methodology
• Modeling
• Parallel and Distributed Simulation
• Verification and Validation
• Neural Networks and Fuzzy Logic Applications
• Performance Optimization, Bounds, and Models
• Queuing Systems and Networks
• Scalability Studies
• Integrated Modeling and Measurement
• On-Line Performance Adaptation and Tuning
• Process Algebra Based Models
• Mathematical Aspects and Integrated Design of Performance
• Case Studies

M&S Applications
• Adaptive Systems
• Agent Directed Simulation
• Artificial Life
• Artificial Neural Networks
• Bio-informatics
• Business Intelligence
• Data Fusion
• Fuzzy Logic
• Knowledge Management
• Knowledge Based Expert Systems
• New Product Development
• Complexity, Complex Systems
• Ecology & Environments
• Electro-Mechanical Systems
• Electro-Optics
• Geophysical Systems
• Manufacturing
• Marine Applications
• Materials Modeling & Simulation
• Defense Applications
• Queuing Systems
• Robotics & Autonomous Systems
• Synthetic Environment
• System Dynamics
• Training Simulators
• Transportation & Traffic

SCS

www.scs.org/summersim

M&S net

MISS

For further information:
www.m-s-net.org/conf/summersim2012
marina.massei@m-s-net.org

SPECTS
GCMS
SCSC 2012

www.m-s-net.org/conf/summersim2012

SPECTS 2012

The International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS2012) is an annual international conference acting as forum for professionals involved in performance evaluation of computer and telecommunication systems. Performance evaluation of computer systems and networks has progressed rapidly in the past decade and has begun to approach maturity. Significant progress has been made in analytic modeling, simulation, and measurement approaches for performance evaluation of computer and telecommunication systems. SPECTS is technically co-sponsored by IEEE Communications Society and IEEE SMC Society (pending sponsorship for 2012). Accepted papers of SPECTS are archived in IEEE Xplore (pending approval for 2012)

Honorary Chair:
Mohammad Obaidat Monmouth Univ. NJ USA
General Chair:
Jose Sevillano, Univ.of Seville, Spain
Program Chairs:
Raffale Bolla, Univ.of Genoa, Italy
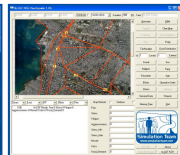Pere Vila, Univ.of Girona, Spain
Isaac Woungang, Ryerson Univ., ON, Canada

ICBGM 2012

The 2012 International Conference on Bond Graph Modeling and Simulation brings together research paper presentations, panel sessions, tutorials, workshops, seminars, industrial applications, and software demonstrations that use Bond Graph modeling methods. There will be also featured plenary speakers and some special invited presentations. This conference will focus on Bond Graph modeling techniques for dynamic systems. Theoretical principles for electrical, mechanical, hydraulic, pneumatic, and control system applications will be presented. Leading industrial users of the method in automotive, aircraft, fluid power, kinematics, multibody systems, and social and biological systems have been invited. Research papers are welcome in the following categories of presentation

General Chair:
Jose' J. Granda, California State University, USA
Program Chair:
Francois Cellier, ETH Zentrum, Switzerland

Paper Submission

Full papers should be submitted for the review process through the conference website. Each submission must include the title, authors, abstract, affiliations, addresses, main body and references for proper positioning in the conference. Each paper will be reviewed by different members of the International Program Committee of the specific Conference and track taking into consideration scientific quality, originality and relevance. Only original papers, written in English will be accepted.Authors of accepted papers are expected to attend the conference, present their works, transfer copyright and pay conference registration fees at the time their camera ready papers are submitted.
Conference best papers will be directed to International Journals for possible inclusion through content extension.

SCSC 2012

The Summer Computer Simulation Conference represents one of the oldest event in M&S worldwide and at the same time the top Conference with state of art of most innovative Simulation Technologies. Summer Computer Simulation Conference (SCSC2012) focus is on Simulation as Enabler for the Future; in fact Modeling and Simulation (M&S) is a very critical area for supporting Research and Development, as well as competitiveness, worldwide. New technologies are enabling new uses of M&S and increasing its impact in new areas. SCSC2012 provides an International Forum for presenting the State of the Art in the International Simulation Community as well as the Effectiveness of Simulation Experiences in World Businesses. The best overall papers, as selected by the Conference Committee, will be considered for possible publication in special issue of International Journals.

General Chairs:
Peter Kropf, Université de Neuchâtel, Switzerland
Francesco Longo, MSC-LES Univ.Calabria, Italy
Program Co-Chairs:
Miquel Angel Piera, University Autonoma de Barcelona, Spain

GCMS 2012

The 5th International Conference on Grand Challenges in Modeling and Simulation (GCMS2012) is one of the main SummerSim2012 conferences, organized by the Society for Modeling and Simulation International (SCS). Following the success of the earlier conferences in Edinburgh, Istanbul and Ottawa the focus of GCMS2012 will continue to be on the major challenges that must be met if the full potential of modeling and simulation is to be realized. Significant progress in M&S methods and applications has accompanied the rapid growth in the power and cost-effectiveness of available computer systems, but many challenges remain.

GCMS General Chair:
Roy Crosbie, Cal.State Univ. Chico, CA, USA
GCMS Program Chairs:
Priscilla Elfrey, Kennedy Space Center - NASA, FL, USA
Terry Ericsen, Office of Naval Research, CA, USA
Ralph Huntsinger, CSU, Chico-Humboldt, CA, USA
Hamid Vakilzadian, University of Nebraska, Lincoln, NE, USA
GCMS Program Co-Chairs
Kelly Cooper, Office of Naval Research, CA, USA
Mhamed Itmi, INSA-ROUEN, France

Summersim 2012 Deadlines

Special Session Proposals	April 18, 2012
Paper Submission	April 30, 2012
Notification of Acceptance	May 30, 2012
Final Submission	June 15, 2012
Early Registration	May 30, 2012

Exhibition Chair: Alberto Tremori tremori@simulationteam.com
Technical Coordinator: Marina Massei, marina.massei@m-s-net.org