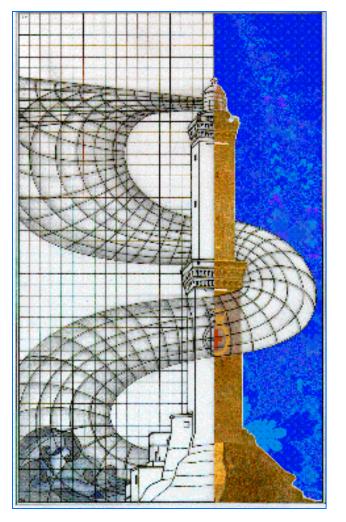
$\begin{tabular}{ll} McLeod Institute of Technology and Interoperable Modeling \& Simulation \\ M\&S \ Net \end{tabular}$

Genoa Center - Report 2012



MITIM M&S Net Genoa Center Simulation Team



Savona Campus & Savona Labs

via Cadorna 2 17100 Savona, Italy

Tel +39 019 219 45 251

Fax +39 019 230 22 89

URL www.itim.unige.it/mcleod

EMAIL agostino@itim.unige.it







MITIM & M&S Net- Genoa **DIPTEM University of Genoa** Email: agostino@itim.unige.it

URL: www.itim.unige.it



The research group of MITIM M&S Net-DIPTEM of Genoa University is active from '60 in Simulation applied to Industrial Engineering.

The activities involve modeling, simulation, VV&A and analysis of Industrial Applications and Services (design, re-engineering, management, training etc.) as:

Chemical Facilities Harbor Terminals Manufacturing Public Transportation

The Department staff is in touch world-wide with the simulation community and is present actively to conferences, exhibitions and working meetings with the major **Associations, Agencies and Companies.** **Power Plants PM Environment Public Services Assembling Logistics**



28 M&S Net Centers World-Wide

DIPTEM - University of Genoa

DIPTEM was founded in 1997 as evolution of the Institute of Technology and Industrial Management (ITIM) that was operative from '60.

DIPTEM is composed by about 40 faculty members, 15 technicians and administrative, plus several PhD Students, external Researchers and Consultants.

DIPTEM teachers are involved in Undergraduate, Postgraduate and Professional activities in Engineering, Management.

DIPTEM active in R&D Projects for major Institutions, Companies and Governmental Organisations.

DIPTEM co-operates actively with major Excellence Centers World-Wide. In Fact DIPTEM was changing name from DIP to DIPEM after ITIM.







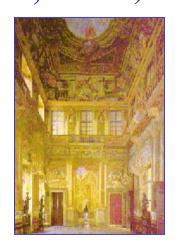
University of Genoa: an Overview

The University of Genoa is one of the oldest in Italy and in the World (founded in 1471 AD), it is located in middle of Italian Riviera.

The students are about 40,000 (about 8,000 new entries), and the engineering departments has about 7,500 students (12% in Savona Branch Departments); in effect the Savona Campus Savona holds about 1,000 Engineering Students.

That campus is located about 2 km from Savona Downtown, in an old complex of barracks recently converted into new University Buildings (over an area of 200,000 m²).

For further Information about the University of Genoa:
 http://st.itim.unige.it
 http://www.unige.it





Savona Campus & Facilities

The University of Genoa includes a new campus in Savona about 2 km outside Downtown; bus services and large parking areas guarantee easy access.

That structure has been obtained transforming Army barracks; today the campus includes a big park with facilities such as tennis courts and sport grounds.

The campus holds Dept. on Engineering and also Economical courses; new laboratories have been realised in Simulation, Logistics & Industrial Eng. (SAMS Project), Ecology and Chemical.

Facilities for Professional Congress Centres are available in the surroundings



Savona Campus





Congress Centre

MITIM -M&S Net DIPTEM Genoa Univ.

The MITIM-M&S Net DIPTEM of Genoa University carries out many industrial simulation projects in cooperation with the large corporations and small and medium sized Enterprises; some example of recent industrial simulation project are following:



ADtranz

ABB Daimler-Benz



Distributed Synthetic Environment









Cetena **Fincantieri**



for Power Plant Design

Simulation & Virtual Project Management of Car Deck Construction for Fast Ferry





₽ FratAvio







COOP

Simulation for Re-Engineering Supply Chain in a National Chain of Grocery Stores



- Italian Point of Contact of ISAG (International Simulation Advisory Group)
 - Associate Vice President of SCS and Chairman of Industrial Relations for Europe
 - Member of NATO Industrial Advisory Group for Simulation & VV&A for Design





Logistics Networks & Supply Chain Management

MARLON: petro-chemical logistics funded by ENI

Military Applications

SAS085, Genova, February 1-4 Research on Agility NATO group (IA) for Computer Generated Forces (CGF): research project funded by Selex

PANOPEA: joint research MITIM-DIPTEM and Turkish Naval Academy

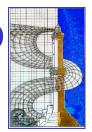
CAPRICORN: CIMIC and PSYOPS development (Italian MoD,

LSIS, DGA France) 2009-2012

PNRM CGF C4 IT: CGF for C4 in NCW 2009-2011

Haiti-Like: IA-CGF NCF for Country Reconstruction 2009-2010

joint project MITIM-DIPTEM/US-JFCOM





MITIM - M&S Net Genoa International Cooperations in 2011



CAPRICORN

•LSIS

I_M_CS Common Activities

- •Arcavacata University
- •LSIS, Marseille, France
- Liophant Simulation

ERASMUS

•University of Pardubice, Czech Rep.

UNITE FP7- 248583

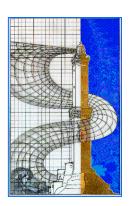
•Riga Technical University, Latvia





MITIM - M&S Net Genoa Conferences & Workshops





SCIENTIFIC EVENTS 2011/2012:

- •CAPRICORN Users Meeting January 18 2012, M&S COE Rome, Italy
- •CAPRICORN CIMIC Group, January 18 2012, M&S COE Rome, Italy
- •CAPRICORN Users Meeting February 22 2012, CE.FLI, Rome, Italy
- •CAPRICORN Meeting with CE.FLI and M&S COE June 22 2012, NATO M&S COE,
- •NATO MSG113, Genova, April 16-18

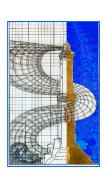
MITIM Genoa is co-organizing:

- •The international Workshop on Applied Modelling and Simulation within SCM MEMTS
- 2011 Sankt-Petersburg, Russia in Co-operation with Riga Technical University
- •WORKSHOP HMS2012, Wien, Austria , in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP I3M2012, Wien, Austria, in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP EMSS2012, Wien, Austria , in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP MAS2012, Wien, Austria, in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP IMAACA2012, Wien, Austria, in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP DHSS2012, Wien, Austria , in Co-operation with I_M_CS, Sept. 2012
- •WORKSHOP IWISH2012, Wien, Austria, in Co-operation with I_M_CS, Sept. 2012
- •Workshop WAMS2012, Roma, Italy, co-located with 7th NATO CAX Forum, Sept 2012

NEW EVENTS





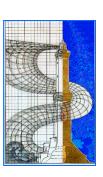


Visitors:

- Jan Fikejz, PHD from University of Pardubice, Czech Rep., July 2012,
- Nato MSG 113, Wayne Buck et al., April 2012
- Prof. Antonin Kavicka, University of Pardubice, Czech Rep., August 2011
- Prof. Julija Petuhova, Riga Tech. University, February-July 2011
- Lt. Arda Ceylan, Turkish Naval Academy, September-February 2011
- Prof. Luis Pastor, University Rey Juan Carlos, Madrid, S, March 2011
- Dr. Jose de No, Consejo Superior de Investigaciones Científicas CSIC, Madrid, S, March 2011
- Prof.Ryszard Klempous, Prof.Andrzej Kasprzak, Prof. Cezary Madryas, Wroclaw University of Technology, Poland (june 2011)







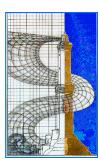
Visiting activities:

- Francesca Madeo, Dartmouth College, Naval Postgraduate School, Harvard Medical School, USA, april-june 2012
- Agostino Bruzzone, University of Wroclaw, Poland, May 2012
- Agostino Bruzzone, Charles Sturt University, Australia, May 2012
- Marco Pucciano, Ford Motor Company, USA, March 2012
- Agostino Bruzzone, University of Pardubice, Czech Rep., (march 2011)
- Federico Tarone, Agostino Bruzzone, MIT, Boston, USA, March 2011
- Agostino Bruzzone, Marina Massei, LAMCE-COPPE, UFRJ, Brasil (april 2011)
- Agostino Bruzzone, Turkish Naval Academy, (june 2011)
- Alberto Tremori, University of Stavanger, Norway (june 2011)
- Alberto Tremori, NATO C3 Agency, Brussels, Belgium (june 2011)



MITIM - M&S Net Genoa Scientific Issues 2011/2012





Scientific Issues

Publications: Journal Papers (3), Conference Papers (10), Technical Reports (9), Tutorial & Invited Speeches (3), Award (1 SCS)

Active Participation at Conferences

AMS2012, Kuta, Indonesia

MATHMOD2012, Wien, Austria

SpringSim2012 Orlando, F, US

ITEC2012, London

AMS 2012, Kuta, Indonesia

MOSIM, Bordeaux, 2012

SCSC2011, The Hague, NL

I/ITSEC2011, Orlando, US

EMSS, Roma, Italy 2011

HMS, Roma, Italy 2011

I3M, Roma, Italy 2011

MAS, Roma, Italy 2011

SpringSim, Boston, 2011

ITEC 2011 Cologne

ITEC 2011 Cologne

AMS 2011, Manila

FP7 meeting, Stavanger, Norway, 2011

ICCRTS, Quebec City, 2011

SCM MEMTS 2011 Sankt-Petersburg, Russia

SpringSim, Boston, M, 2011

ITEC 2011 Cologne

AMS 2011, Manila

FP7 meeting, Stavanger, Norway, 2011

ICCRTS, Quebec City, 2011

Graduate Student Forum of Beihang, 2011

Active Participation at NATO Groups NATO Joint CAX Forum 2011 SAS085, Genova, 2011 SAS085, Quebec City, 2011 RTO MSG 085 NMSG 113 Serious Games

Project: CAPRICORN

Civil Military Co-operation And Planning Research in Complex Operational Realistic Network



CAPRICORN is developed for Italian and French MoDs under "Ad Hoc Research & Technology Projects and Programmes of the European Defence Agency". Project aim is:

- Investigate Basic Operational Planning:
- Advanced Human Behaviour Hierarchical Modeling
- Enhanced Interoperable Multilevel Models
- Development of CIMIC and PSYOPS models interacting with intelligent agents in CAPRICORN.

Project: PNRM CGF C4 IT

PNRM CGF C4 IT is developed for Italian MoD. Project aim is:

•A new generation of Interoperable Intelligent Agent driven Computer Generated Forces for Command, Control, Communications and Computer Systems in Network

Centric Warfare

















Program: DIMS

Dottorato in Ingegneria Matematica and Simulazione



DIMS is a PhD program in Mathematical Engineering and Simulation started in 2005 in Genoa University.

This PhD program was activated DIPTEM (Production Engineering & Mathematical Modelling Dept.) and DIBE (BioEngineering Dept.) during fall 2005 and become active with beginning of 2006.

Today DIMS involves about 20 courses in M&S for PhD Students.

Currently 20 PhD Students are enrolled in this program and for 2011 5 additional positions will be activated (2 grants, 3 free)











DIMS Courses





Sviluppo di una Tesi di Simulazione, Report Annuale e 5-6 Corsi nei primi due Anni:

- P. Bagnerini Metodi numerici per la soluzione di equazioni differenziali

- A. Bruzzone High Level Architecture/Distributed Interactive Simulation

- A. Bruzzone Verification, Validation & Accreditation in Modeling & Simulation

A. Bruzzone Advanced Logistics Models

- A. Bruzzone Project Management & Concurrent Engineering in R&D Projects

- A. Bruzzone Modellistica e Simulatione (Modeling & Simulation)

- C. Cervellera Statistica e Regressione Non Lineare

- R. Cianci Equazioni differenziali alle derivate parziali ed applicazioni

M. Muselli Machine Learning

- M. Parodi PDE nei Modelli per l'Ingegneria

F. Patrone Teoria dei Giochi

M. Sanguineti Reti Neurali per l'Ottimizzazione

- M. Storace Analisi dei Sistemi Dinamici Non Lineari

- D. Percivale, Calcolo delle variazioni ed applicazioni

T. Zolezzi



Program: Master in M&S

Master in Modelling & Simulation



MITIM Genoa and DIPTEM are working forward to establish a new Master in Modelling & Simulation focused on Defense sector and Interoperability in joint cooperation with Major Italian MoD



Program: MIPET











Master in Industrial Plant Engineering & Technologies

The Master in Industrial Plants is a Master degree program organized in Genoa University focusing on preparing new generations of top quality technical experts for process engineering and power equipment supplier as well as construction contractor. Its main aim it is to satisfy the expectation from Leading Industries in term of high technical skills and excellence capabilities in Industrial Plants and Engineering. The Master Program is directed by Faculty of Engineering in strong cooperation with leader industries and major companies operating in these industrial sectors, this aspect guarantees the relevance and effectiveness of the initiative. In fact this project it is part of a large initiative devoted to develop excellence in Industrial Plant Engineering through the synergy between the expertise of Genoa University Engineering Faculty and Top Level Companies with long traditions that are leading this Area Nationally and Internationally in term of turnovers, size, processes and products complexity as well as know how and technical skills.



Program: Premitel







Preparation for Management within Innovative Transportation services and Evolving Logistics

PREMITEL Program (Preparation Business Management, Transportation and Logistics) was established to provide Methodologies and Tools for Transportation Services and Logistics with special attention on the following issues:

- Assessment and Forecasting of logistics demand while facing emerging behaviors and new trends
 Definition of Evaluation criteria and solution for Supply Chain Management (SCM)
 Planning and Management of transport and logistics services
 Technology Transfer and Skill Acquisition on logistics considering operations, economy, legal aspects, engineering
- Identification of customer needs
- Use of Models and Tools for operative, economic & financial analysis and evaluation of investments and management solution for transport infrastructures and logistics
 Marketing planning for new transportation services and logistics
 Development of systems of management and control for Logistics and SCM
 Support and Guide the public administrators and operators in decision making and in the definition and implementation of realistic and effective policies in Transportation

The aim of the course and then PREMITEL the preparation of a new generation of experts that who could be valuable in business within the area of Logistics and Transportation Services, becoming the new leaders in this area to support developments and strategic decisions and their implementation. People involved in the program should have skills in the fundamentals of engineering, economics, and regulatory and procedural issues related to transport and logistics characteristic within their university education; the attendees are students of Engineering, Economics or Law Faculties with Genoa, Rome, Bologna, Trieste, Salerno Universities. The PREMITEL is founded by the Italian National Department of Transportation.













Teaching Style

MITIM
Simulation Team
Genoa Center

The courses are organised based on different modes:

- Lecturing
- Interactive Exercises on PC
- M&S Team Working Games
 - •Co-operative: i.e. SUMBA
 - •Competitive: i.e. BABEL
 - •Co-operative & Competitive: i.e. J20
- Innovative Solutions integrated in Courses
 - •Clickers for Real-Time Dynamic Teaching/Testing
 - •E-Learning Platforms







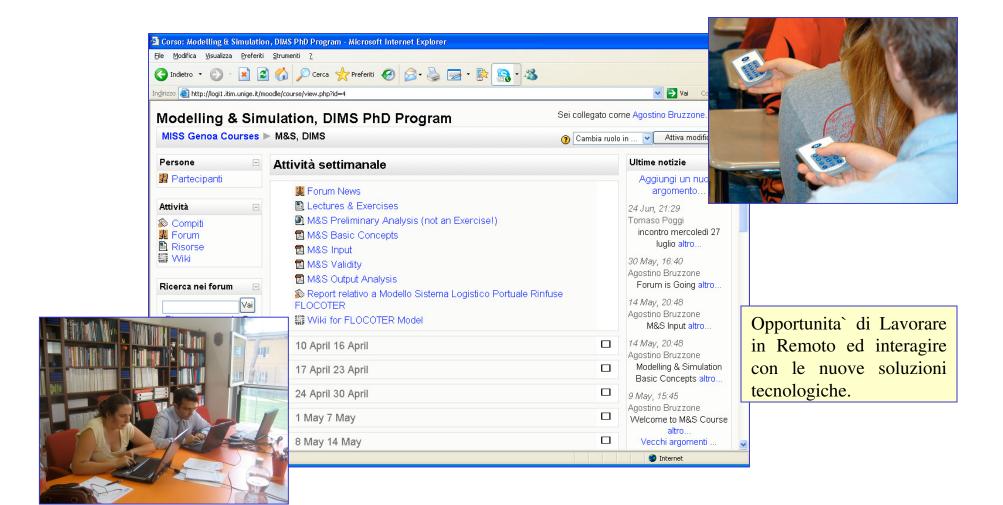




Blended Education

Dottorato in Ingegneria Matematica and Simulazione

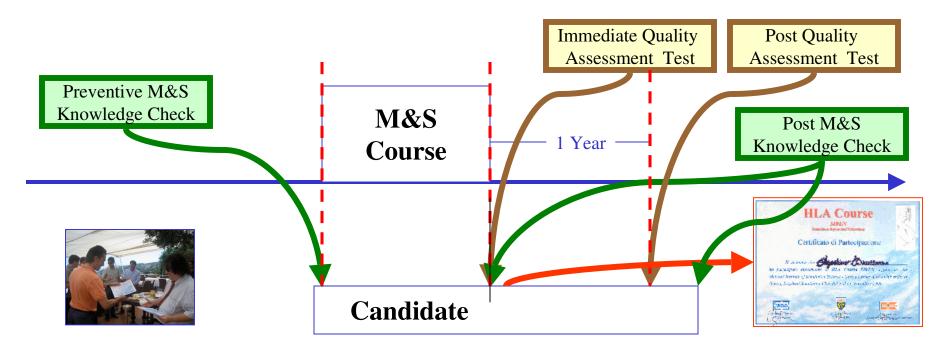




Simulation Team Professional Certification



Simulation Team established a procedure for Certify people attending to Professional Courses; currently this procedure involves SIREN courses and it is based on an operative protocol to appoint Certifications to course attendees.



SIREN Professional Certification Over the Time



Simulation Team Course Attendees are subjected to Certification Exam and to an additional check after one year.

Credits related to M&S Activities during following years are

recorded on Individual Resume:

- Conference Attendance
- Posters at Conferences
- Papers at Conferences
- Journal Papers
- Program Committees
- Project Teams
- M&S Tutorials
- M&S Courses



M&S Professional Certificates

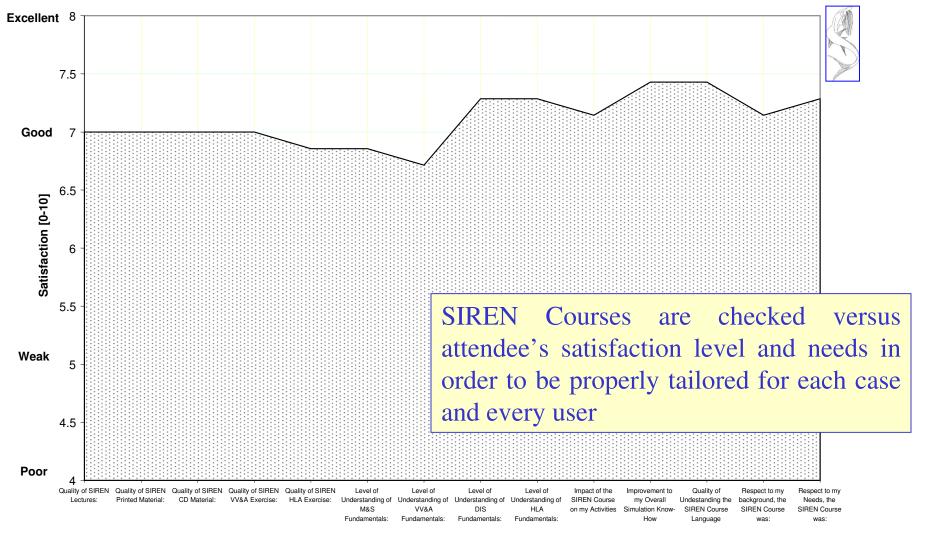


Professional Simulation Team Certificates for SIREN Courses are ranked based on the following levels:



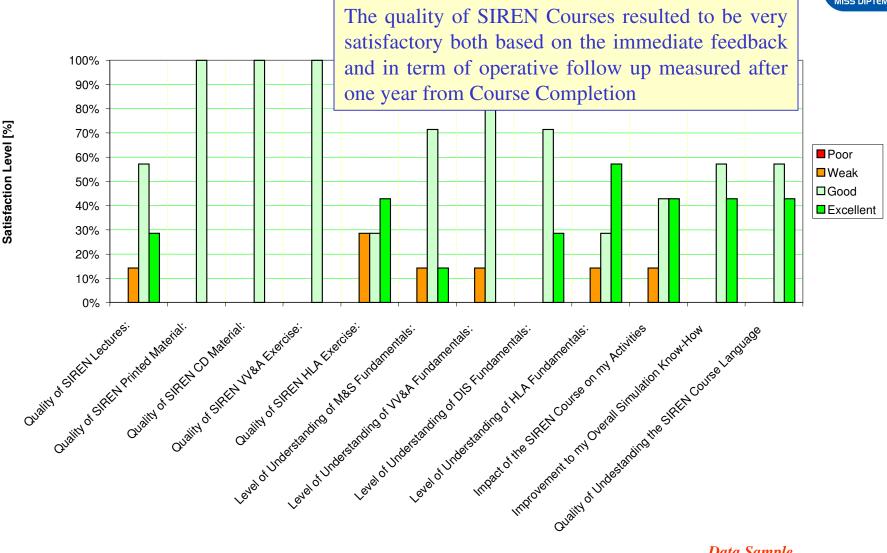
SIREN Course Satisfaction Levels





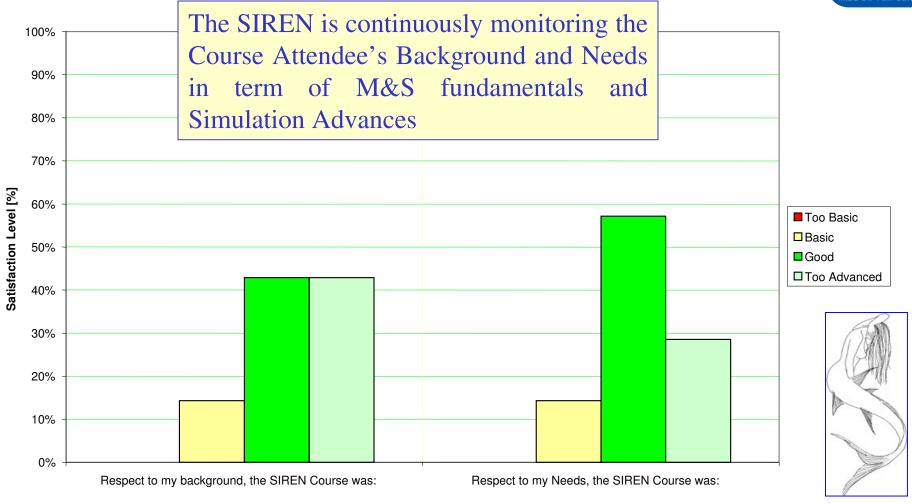
SIREN Quality Assessment





SIREN Self Evaluation

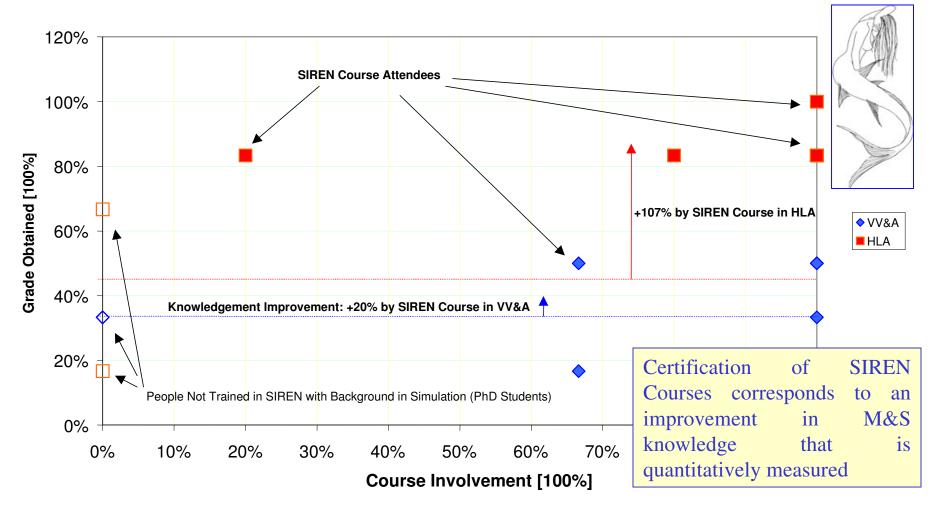




SIREN Quantitative



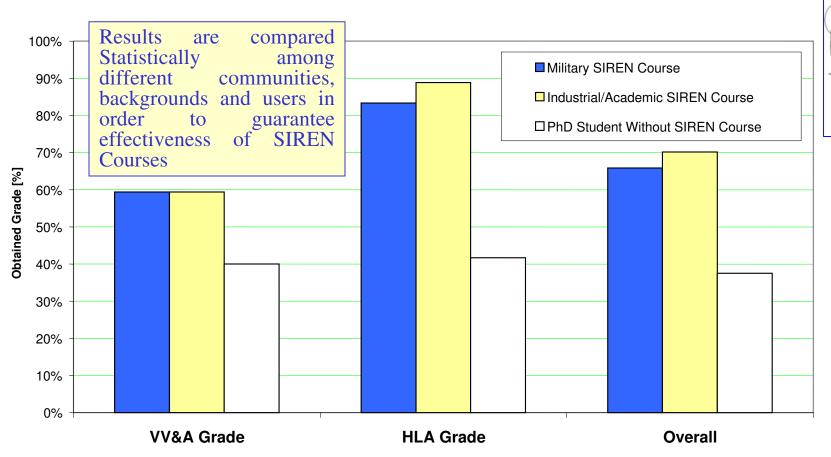




SIREN Impact vs. Traditional Education



Grade Obtained in SIREN Test

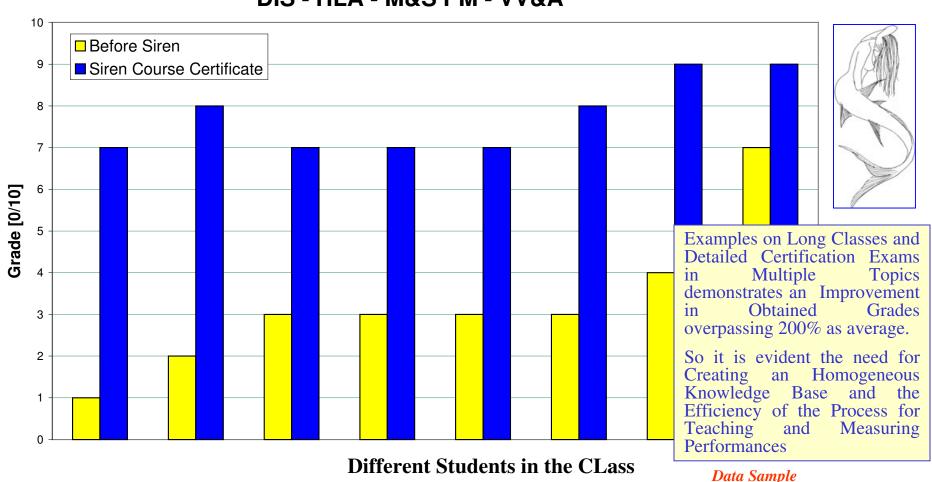


Data Sample

SIREN Impact vs. Traditional Education



Improvements on a Class on Detailed Issues related to: DIS - HLA - M&S PM - VV&A



The 9th International Multidisciplinary Modeling & Simulation Multiconference



Simulation Team M&S Net, MSS-DIPTEM Univer-

Prof. Yuri Merkurvev Riga TU, Latvia

Program Chairs:

Prof.Francesco Longo M&S Net MSC-LES, ITALY

New Simulation Project

Workshop,

Int. Defense & Homeland

Security Simulation Workshop

M &S Network

Workshop

2012 The International

Conference on Harbour,

Maritime & Multimodal Logistics Modelling &

&SNet

IMAACA

Int. Conference on Integrated Modeling & Analysis in Applied Control & Automation



European Modeling & Simulation Symposium



MoLeod Institute of Simulation Science Workshop



The International Conference on Modeling & Applied Simulation



ISM 2012: New Edition
Next year the 9th edition of ISM will be held in the wonderful city of Wear renovating the opportunity to have an International Multicorference covering many different topics related to Modeling & Simulation in a sharp way and providing an ideal opportunity to meet together

European Modelling & Simulation Symposium - EMSS The EMSS represents the 24th edition of the classic autumn M&S event in Europe; the Symposium is a really International meeting involving world experts in the area M&S with special attention to methodologies, techniques and applications.

M&S Net New Simulation Project Workshop - NSP This event is the ideal framework for setting up European Community and International Projects and it is an opportunity for hosting project review and exploitation meetings; NSP welcome submissions for panel sessions on new simulation project proposals.

The International Conference on Modeling & Applied Simulation- MAS The MAS Workshop concentrates on applied M&S and IT

Solutions; application fields include production, business and services; since 2002 MAS involves Experts and Users discussing about M&S as enabling technology for business and industry in real world.

The International Conference on Harbour, Maritime & Multimodal Logistics M&S - HMS

HMS Workshop is a traditional event and it was held successfully worldwide, usually in the surroundings of major international ports. It is focused on applications of simulation and computer technologies to logistics, supply chain management, multimodal transportation, maritime environment and industrial logistics.

IMAACA Conference

IMAACA focuses on all applications relevant to control & automation problems emphasizing the role of model analysis as integral part of the complete design of the automated system.

M&S Net Workshop

The MS&Net workshop aims to create an evolving framework for sharing experience and knowledge in which participants have the possibility of effective cooperation. Tracks organization is intended to cover all the research areas of MS&Net centers; knowledge exchange is the key of successful collaborations.

The International Defense & Homeland Security Simulation Workshop

DHSS focuses on M&S advances within Defense and Homeland Security framework; DHSS is part of I3M and involves industrial, governmental and academic top experts in this areas

The International Workshop on Innovative Simulation for Health Care

IWHIS is directed to scientists, technicians, users and decision makers that are interested in the fast evolving and innovative sector of applying modern M&S within Health Care. The workshop is evolution of very successful tracks and workshops organized in previous conferences. and it is becoming in 2012 a self independent international workshop





www.liophant.org/i3m



McLeod Institute of Simulation Science (MISS) is a Excellence Network involving worldwide 28 centers; in cooperation with the Society for Modeling & Simulation International, this workshop is a Meeting open to affiliated Centers and to external applicants

M&S Professional Courses at I3M

These M&S Professional Courses will be held in connection with I3M Multi-Conference; program, registration modules and tentative schedule are already available, please book them early. The M&S Courses are organized in cooperation with MISS-DIPTEM University of Genoa, Simulation Team and with Patronage Liophant Simulation and include foreground assessment for M.d. end Institute of Simulation Science Professional Certification Program



papers, written in English will be accepted. Your camera ready paper must be submitted through the conference website. 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

Extended abstracts, full draft papers or other

proposals should be submitted for the review

Each extended abstract must include the title.

authors, affiliations, addresses, main body and

references for proper positioning in the

conference. Each paper will be reviewed by at

least two members of the International Program

Committee taking into consideration scientific

quality, originality and relevance. Only original

process through the conference website

Conference best papers will be directed to International Journals for possible inclusion through content extension.

Deadlines

submitted.

Paper submission Exte Notification of Acceptance Final Camera Ready Submission

Paper Submission

May 15, 2012 June 15, 2012 July 15, 2012



























marina.massei@simulationteam.com francesco.longo@simulationteam.com





The 9th International Multidisciplinary Modeling & **Simulation Multiconference**



The M&S Multiconference moving around the World and along the Years attended by Top Experts from Mediterranean, Latin & North Americas, Europe, Asia, Africa and Australia

September 19-21 2012 Wien, Austria

General Chairs

Agostino G. Bruzzone

MISS - Genoa Center University of Genoa

Yuri Merkuryev

Program Chair

Francesco Longo

University of Calabria

Conference Coordinators

Claudia Frydman

LSIS, France Miquel Angel Piera

UAB, Spain

Exhibition Chair

Enrico Bocca

Simulation Team Raly

Download the I3M 2012 CFP

SPONSORS

Venue

Registration

Technically Cosponsored by:



REGISTRATION PROCEDURE

1381 2012

The 9th edition of the I3M 2012 will be held in Wien (Austria) renovating the opportunity to have an International Multiconference involving the different topics related to Modelling & Simulation

This year the I3M 2012 Multiconference includes



The European Modelling & Simulation Symposium - EMSS



The International Conference on Harbour, Maritime & Multimodal Logistics M&S



tional Conference on Modeling & Applied Simulation-MAS

IMAACA 2012

The International Conference on Integrated Modeling and Analysis in Applied Control and Automation



rmational Defense and Homeland Security Simulation Workshop



The International Workshop on Innovative Simulation for Health Care

McLeod WORKSHOP

McLoed Workshop



Modeling & Simulation Network Workshop



New Simulation Project Workshop

Plenary Speakers at I3M 2012, Wien

It is a long tradition for I3M to provide apportunities to its Authors to extend their work for being published in International Journals; in fact as one of the most important and successful Simulation appointment, I3M 2012 includes historical conferences such us EMSS and HMS that this years will respectively celebrate the 24th and 14th years edition.

Thanks to the invaluable works of the Organizing Committees, International Program Committees, Reviewen and Local Organizers, this year the I3M Multiconference is one of the biggest events of M&S worldwide. So due to these reasons, several international Journals will publish Special Issues based on a collection or extended versions of best selected papers among those submitted to I3M2012 (EMSS 2012, HMS2012). MAS2012, IMAACA 2012, DHSS2012, IMISH2012). In particular the following Special Issues will include





Cognitive Computation

Special Issue on:

"Modeling and Simulation for Cognitive Computation"

Based on a collection of best papers to be submitted and presented at the multi-conference I3M 2012



International Journal of Simulation and Process Modelling

Special Issue on:

"The Future of Modeling & Simulation: applications in Industrial Plants, Processes and Services "

Based on a collection of best papers to be submitted and presented at the multi-conference I3M 2012 (including EMSS 2012, MAS 2012, HMS 2012, **IMAACA 2012)**



International Journal of Simulation and Process Modelling

Special Issue on:

"The Future of Modeling & Simulation: training, experimentation and decision making"

Based on a collection of best naners to be submitted and presented a

<u>5 2012,</u>



International Journal of Critical Infrastructures

Special Issue on:

"Homeland security: a control system point of view"

Based on a collection of best papers to be submitted and presented at the multi-conference I3M 2012 (including EMSS 2012, MAS2012, HMS2012, IMAACA 2012, DHSS2012)



International Journal of Food Engineering

Special Issue on:

"Modelling and Simulation of Food Processing and Operations"

Based on a collection of best papers to be submitted and presented at the multi-conference I3M 2012 (including EMSS 2012, MAS2012, HMS2012, IMAACA 2012, DHSS2012)



International Journal of Privacy and Health Information Management

Special Issue on:

"Modeling, Simulation, and Computational Methods for Privacy and Healthcare Information "

Based on a collection of best papers to be submitted and presented at the multi-conference I3M 2012

As one of the most important and successful Simulation appointment, I3M 2012 includes historical conferences such us EMSS and HMS that this years will respectively celebrate the 24th and 14th years edition. Thanks to the invaluable works of the Organizing Committees, International Program Committees, Reviewers and Local Organizers, this year the I3M Multiconference is one of the biggest events of M&S

Summersim

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



GCMS



SPECTS 2012

Honorary Chair:

Program Chairs:

content extension.

Paper Submission

Early Registration

Summersim 2012 Deadlines

Special Session Proposals

Paper Submission

General Chair:

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

technically co-sponsored by IEEE Communications

Society and IEEE SMC Society (pending sponsorship

for 2012). Accepted papers of SPECTS are archived

approaches for performance evaluation of computer

and telecommunication systems.

Jose Sevillano, Univ.of Seville, Spain

Raffale Bolla, Univ. of Genoa, Italy

Pere Vila, Univ. of Girona, Spain

in IEEE Xplore (pending approval for 2012).

Mohammad Obaidat Monmouth Univ. NJ USA

Isaac Woungang, Ryerson Univ., ON, Canada

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

Authors of accepted papers are expected to attend

the conference, present their works, transfer

copyright and pay conference registration fees at the

Conference best papers will be directed to

International Journals for possible inclusion through

January 16, 2012

February 1, 2012

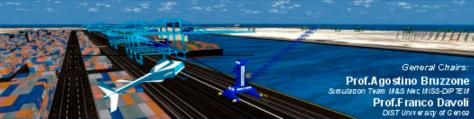
March 15, 2012

April 16, 2012

May 2, 2012

original papers, written in English will be accepted.

time their camera ready papers are submitted.



SUMMERSIM 2012

Summersim is a large event usually organized in North America and Europe to provide the opportunity for publishing and 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 & 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
- · 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

- Content Delivery
- 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 Full papers should be submitted for the review
 New Product Development process through the conference website.
- · 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
- Sýstem Dynamics
 Training Simulators
- . Transportation & Traffic

www.scs.org/summersim

Simulation Team Genoa Center

Notification of Acceptance Final Submission

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

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.

For further information:

GCMS

www.m-s-net.org/conf/summersim2012 marina massei@m-s-net.org

Peter Kropf, Université de Neuchâtel, Switzerland Francesco Longo, MSC-LES Univ. Calabria, Italy

Program Co-Chairs: Miguel 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 Vakitzadian, University of Nebraska, Lincoln, NE, USA GCMS Program Co-Chairs

Kelly Cooper, Office of Naval Research, CA, USA Mhamed Itmi, INSA-ROUEN, France









Exhibition Chair: Alberto Tram.or. Tram.or. Tram.or. Tram.or. Tram.or. Technical Coordinator: Marina Massei, marina massei @m-s-netorg

Project: SIREN Professional Courses

The professional courses have been organised since 2000 for world-wide professionals, in Italian, French and English, focusing on the following subjects:

•PM: Project Management in M&S Projects

•M&S: Modeling & Simulation

•HLA: High Level Architecture

•VV&A: Verification, Validation and Accreditation

The courses include lecturing and exercises; teachers are world-wide experts from major excellence centers (i.e. Boston College, Genoa University, NASA, DMSO, National Center for Simulation, SAIC, Aegis Technologies, California State University, Riga TU, UCF, MITIM).









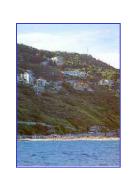
Simulation Technology Transfer

Since 2000 MITIM-M&S Net DIPTEM organised Simulation Professional Courses:

- Project Management
- Modelling & Simulation
- High Level Architecture
- Verification, Validation & Accreditation

The Lecturers included experts from major excellence centres (i.e. Boston College, University of Genoa, NASA, DMSO, National Center for Simulation, SAIC, Aegis, California State University., Riga TU, UCF, MITIM).

The course attendance (PM ~60, M&S 15, HLA 20, VV&A 10) included Companies (i.e. Piaggio Aero Industries, Alenia Aeronautica, Alenia Marconi, SIA, Fincantieri, COOP) and Academia (Pol.Torino, TU Delft, Univ.Marseille, Pol.Milano, Univ.Firenze, Univ.Bari, Univ.L'Aquila, etc.).





Course Location



Lecturing



Team Working & Exercises

Conclusions



The Liophant Simulation and MITIM M&S Net DIPTEM are actin

a

reference point between users and providers in simulation area. The integration of experts, technicians is providing very good results on real case studies and complex projects.

A new active area of development is related to distributed simulation and web-based modeling for extending the impact and exploitation of these proposed systems.

Every year MITIM M&S Net DIPTEM organizes Conferences and International Workshops focusing on application of Modeling & Simulation. 2012: HMS, MAS, EMSS, IMAACA, DHSS, IWISH in Wien and SCSC2012 in Genova.

2012

There is a constant interest in fostering joint cooperation and exchanges with international Excellence Centers working on simulation.

EMSS

2012

DHSS 2012

Wien, Austria

