

WAMS 2013



The International Workshop on Applied Modeling and Simulation

November 24-27, 2013
Buenos Aires, Argentina



WAMS Homepage
Tracks
Deadlines
Program
Authors' Instructions
Submission
Registration and Fees
Conference Organisation
Venue
Sponsors

Technically
Cospponsored by:



CENTRAL & SOUTH ITALY
SECTION CHAPTER

Program

Plenary Talks

Computer Assisted Surgical Training: Enhancing Patients' Safety through Simulation Technology and Human Skill

Prof. Jerzy W. Rozenblit (Dept. of Electrical and Computer Engineering, Dept. of Surgery, College of Medicine, The University of Arizona)

Minimally invasive surgeries reduce recovery time and postoperative pain. However, in these procedures surgeons may lose many of the tactile and visual cues that they rely upon in conventional surgery. Our work focuses on the use of high technology to assist in laparoscopy training. This talk will provide an overview of the concepts, will discuss some of the existing systems, their advantages and shortcomings. Then, a design of a surgical training and assessment system that provides sensing and reasoning capabilities in laparoscopy education will be presented. A training device prototype has been developed and will be demonstrated. I will also discuss our vision for the future use of this technology as a surgical assistant system in the operating room.

The CAPRICORN Project

Agostino Bruzzone (Simulation Team, DIME University of Genoa)

Capricorn aims is support operations planning and management in complex scenarios where population and interest groups are critical elements; in particular the project is focused on a complex South Asia scenario. The context allows to simulate investments and operations over a an asymmetric mission environment with different parties and articulated social frameworks. The proposed scenario is characterized by various degrees of freedom and it is modelled and simulated in order to evaluate the evolution of human behaviour and socio-psychological aspects. It involves Intelligent Agents (IAs)-driven Computer Generated Forces (CGF) that represent also people and interest groups (i.e. Middle Class, Nomads, Clans). The project is focused on Civil Military Co-operations(CIMIC) and Psychological Operations (PSYOPs) while the simulation has been developed using an architecture that involves various federates in different roles (IAs-driven HLA)

Program

	<i>Monday November 25th, 2013</i>	<i>Tuesday November 26th, 2013</i>
		Plenary session

8:30 - 10:00	<p align="center">Registration</p>	<p align="center">The CAPRICORN Project</p> <p align="center">Agostino Bruzzone Simulation Team, DIME University of Genoa</p>
10:30 - 12:00	<p align="center">Plenary session</p> <p>Computer Assisted Surgical Training: Enhancing Patients' Safety through Simulation Technology and Human Skill</p> <p align="center">J. Rozenblit University of Arizona, USA</p>	<p align="center">Session 3 Miscellaneous aspects of simulation Chair: Marina Massei</p> <p>The Effect of Jet Velocity and Wall Temperature on Indoor Air Flow and Temperature Distribution Karel Frana, Jianshun S. Zhang, Milos Muller</p> <p>Simulation of Traffic Road by Batches Petri Nets as Hybrid Mesoscopic Models Radhia Gaddouri, Leonardo Brenner, Isabel Demongodin</p> <p>Analytical Evaluation of Interactivity Mediated by a Dynamic Hypermedia Device Guillermo Rodriguez, Patricia San Martin</p> <p>Performing Fault Tree Analysis of a Modelica-based System Design through a Probability Model Peter Fritzon, Alfredo Garro, Mattias Nyberg, Lena Rogovchenko-Buffoni, Andrea Tundis</p>
12:00 - 14:00	Lunch	
14:00 - 15:30	<p align="center">Session 1 Reliability Chair: Claudia Frydman</p> <p>Simulation & Neural Networks Applications in Software Reliability Analysis Vojo Bubevski</p> <p>A Monte Carlo Method for Reliability Evaluation of a System Integrity Protection Scheme in the Chilean Power Grid Alvaro Moya, Esteban Gil, Alfredo de la Quintana</p> <p>Incident, Emergency, and Disaster Virtual Operation Training Center Marco Biagini, Bruce Joy</p>	<p align="center">Session 4 Industry Chair: Agostino Bruzzone</p> <p>Simulation Aids Long-Term Capacity at a Sunglasses Manufacturing Plant Sagar Ratti, Ravi Lote, Edward Williams, Onur Ülgen</p> <p>Simulative Throughput Calculation for Storage Planning Thomas Atz, Daniel Lantschner, Willibald A. Günthner</p> <p>Modelling of the Drum, Water Walls and Steam Systems of a 345 ton/h Natural Circulation Boiler for Operators' Training Edgardo J. Roldan-Villasana, Yadira Mendoza-Alegria</p>
16:00 - 17:30	<p align="center">Session 2 Economics and Finance Chair: Edward Williams</p> <p>Simulating the diffusion of innovation Process: A Multi-Agent Approach Emerson Noronha, Maria Marietto, Margarethe Born, Wagner Tanaka, Robson França, Terry Ruas, Camila Soarea</p> <p>A simulation based approach for supporting inventory management in a real manufacturing system Agostino Bruzzone, Letizia Nicoletti, Marina Massei, Alessandro Chiurco, Francisco Spadafora, Emanuela Palaia</p> <p>Formalizing Experiential Knowledge for</p>	<p align="center">Session 5 Discrete Event Modeling and Simulation Chair: Cecilia Zanni-Merk</p> <p>Thin Client Distributed Simulation of Discrete Event Models Colin Timmons, Gabriel Wainer</p> <p>Application and Visualization of Financial Risk Metrics in Discrete Event Simulation Arne Koors, Bernd Page</p> <p>Innovative Models for Multi-Coalition Management Agostino G. Bruzzone, Alberto Tremori, John Sokolowski, Catherine Banks, Francesco Lonzo, Alessandro</p>

	WAMS 2013 Program Analysis and Diagnosis of SME Lucas Baulosa, Cecilia Zanni-Merk, Nathalie Gartiser, Ana Casali	Casapietra, Massimiliano Corso, Angelo Ferrando, Paolo Porro, Francesca Dell'Acqua
20:00		Gala Dinner

For further information please contact [WAMS](#)

Powered by [Solutions-Plus](#)