

Annual Report of the McLeod Institute of Simulation Sciences / M&S Net

Genoa Center, Italy

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<p>List of Research Activities & Projects</p> <ul style="list-style-type: none"> - Subject - Type [Topic/Project] - Description - Year 	<p>Production & Assembling APIS: Power Plant Service (Ansaldo) 2006-2007-2008-2009 LAPIS: Power Plant Service (Ansaldo) 2009 Logistics Networks & Supply Chain Management CYBERSAR Simulator for Portainer, (University of Cagliari) 2007-2008-2009 RAS Simulator for Trucks, (CCSTRA) 2008-2009 RIO: New Operation Management Supervision for Supermarkets (COOP Liguria) 2008-2009 Business & Services LEXIS: Layout Optimization and Process Analysis (Piaggio AI) 2008-2009 Service for the Society Green Logistics: Environmental Impact of Logistics (Assologistica) 2008-2009 SIBILLA (Joint Venture, LAMCE-DIPTEM-NASA), 2008-2009 Military Applications PIOVRA: Examples on Intelligent Agent for CGF (Italian MoD, LSIS, DGA France) 2005-2008-2009</p>
<p>List of Educational</p> <ul style="list-style-type: none"> - Title - Type [University Course/Professional Course] - Year 	<p>“Modeling & Simulation” and “Project Management & Concurrent Engineering in R&D Projects”, “M&S for Biomedical Systems” PhD Courses, University of Genoa, Italy, 2008 "SIREN: PM in M&S, M&S, VV&A, DIS, VV&A" Master Courses <i>LSCM</i> EU Initiative with UAB, Genoa Univ., RIGA TU, Magdeburg Univ., Leoben Univ., Linkoping Univ. Professional Course, Bergeggi “M&S in Medical Science”, Workshop, Genoa, Italy, 2009 “M&S in Medical Science”, Workshop, Bologna, Italy, 2009</p>

Center publications

- * Bruzzone A.G., S.Poggi, E.Bocca (2008) "FRAMEWORK FOR INTEROPERABLE OPERATIONS IN PORT FACILITIES" Proceedings of ECMS2008, June 3rd - 6th, 2008, Nicosia, Cyprus
- * Bruzzone A.G., P. Fadda, G. Fancello, E. Bocca, G. D'Errico, A. Tremori (2008) "SHIP-TO-SHORE GANTRY CRANE SIMULATOR DESIGN: CRANE OPERATOR PERFORMANCE ANALYSIS AND ASSESSMENT TOOL OF CAGLIARI UNIVERSITY" Proceedings of HMS2008, September 17-19, 2008, Campora San Giovanni (CS), Italy
- * Bruzzone A.G., A. Scavotti, M. Massei, A. Tremori, (2008) "METAMODELLING FOR ANALYZING SCENARIOS OF URBAN CRISIS AND AREA STABILIZATION BY APPLYING INTELLIGENT AGENTS" Proceedings of EMSS2008, September 17-19, 2008, Campora San Giovanni (CS), Italy
- * Bruzzone A.G., S. Poggi, E. Bocca, F. Longo, F. Madeo, S. Rondinelli (2008) "WORKLOAD FORECAST ALGORITHM OPTIMIZATION FOR RE-ORGANIZING RETAIL NETWORK" Proceedings of MAS2008, September 17-19, 2008, Campora San Giovanni (CS), Italy
- * Bruzzone A.G., M. Massei, L. Pierfederici, (2008) "ADVANCED MODELS FOR INNOVATIVE DECISION SUPPORT SYSTEMS IN BROADCASTING SCHEDULE PLANNING & MANAGEMENT" Proceedings of MAS2008, September 17-19, 2008, Campora San Giovanni (CS), Italy
- * Bruzzone A.G., M. Massei, (2008) "MODELING VULNERABILITY OF THE SUPPLY CHAIN TO EXTERNAL RISKS" Proceedings of MS2008, September 8 – 10, 2008, Gaborone, Botswana
- * Bruzzone A.G., R. Mosca, E. Bocca, M. Massei (2008) "Critical Issues in HLA Integration: PIOVRA CGF vs. Wargaming System" Proceedings of SCSC2008,
- * Bruzzone A.G., F. Longo, (2008) "VIP - Virtual Interactive Port" Proceedings Of SCSC2008,
- * Bruzzone A.G., E. Bocca (2008) "Introducing Pooling by using Artificial Intelligence supported by Simulation" Proceedings Of SCSC2008,
- * Bruzzone A.G., A. Tremori (2008) "Safety & Security in Retail: Modeling Value Chain Dynamics " Proceedings Of BIS2008, April 14 - 17, 2008, Ottawa, Canada
- * Bruzzone A.G., A. Tremori, M. Massei (2008) "HLA AND HUMAN BEHAVIOR MODELS" Proceedings Of MMS2008, April 14 - 17, 2008, Ottawa, Canada
- * Bruzzone A.G. (2008) "Net-Centric Supply Chain Management Based" Invited, Proceedings of AMS2008 Kuala Lumpur 13 – 15 May 2008
- * Bruzzone A.G., Elfrey P., Papoff E., Massei M., Molnvar I. (2008). 7th International Workshop on Modeling & Applied Simulation. ISBN: 978-88-903724-1-4. GENOVA: DIPTTEM Press (ITALY)
- * Bruzzone A.G., Longo F., Merkurjev Y., MIRABELLI G., Piera M.A. (2008). 11th International Workshop on Harbor, Maritime & Multimodal Logistics Modelling and Simulation. ISBN: 978-88-903724-1-4. GENOVA: DIPTTEM Press (ITALY)
- * Bruzzone A.G., Longo F., Piera M.A, Aguilar R. M, Frydman C. (2008). European Modelling Simulation Symposium. ISBN: 978-88-903724-0-7. GENOVA: DIPTTEM Press (ITALY)
- * Bruzzone A.G. (2008) "La Simulazione Nell'Innovare", Invited Speech at INNOVARE Workshop, Bergeggi, Italy, June 6th
- * Bruzzone A.G. (2008) "Human Behavior Modeling: Achievement & Challenges", Invited Speech at SIREN Workshop, Bergeggi, Italy,

	<p>June 6th</p> <ul style="list-style-type: none"> * Bruzzone A.G. Toto Brocchi R. (2008) "Ambiente: costi,vincoli e opportunità per la logistica. Un modello per capire gli impatti ambientali della supply chain dal produttore al consumatore", Invited Speech at Borsa Milan during Italian Logistics Conference, Milan, Italy, November * Bruzzone A.G. (2008) "Intelligent Agents for Computer Generated Forces", Invited Speech at Gesi User Workshop, Wien, Italy, October 16-17 * Bruzzone A.G. (2008) "Intelligence and Security as Framework for Applying Serious Games", Invited Speech at SeriGamex, Rome, Italy, November 11-12 * Bruzzone A.G., Massei M., Tremori A., Bocca R., Poggi S. (2008) "SASSO MARIO", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Massei M., Tremori A., Bocca R., Poggi S. (2008) "SASSO PRISMA", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Tremori A., Bocca R., Poggi S. (2008) "MASC REFINING", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Tremori A., Bocca R., Poggi S. (2008) "RIO", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Tremori A., Bocca R., Queau A., Caneparo M. (2008) "LEXIS", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Tremori A., Bocca R., Poggi S. (2008) "ODIN", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Tremori A., Bocca R., (2008) "CYBERSAR", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G., Zamoirani M., (2008) "APIS HandBook", DIPTeM Technical Report, Genoa, Italy * Bruzzone A.G. (2008) "Safety, Security in Logistics: R&D during 2005-2008", CIELI Technical Report, Genoa, Italy * Bocca E., F. Longo (2008) "Simulation Tools, Ergonomics Principles and Work Measurement Techniques for Workstations Design" Proceedings Of SCSC2008,June 16-19, Edinburgh,Scotland * Massei M. (2008) "Advanced Supply chain Protection & Integrated Decision support System", Invited Proceedings of AMS2008 Kuala Lumpur 13 – 15 May
Center simulation tools	<p>Simulation software C/C++, Java, Visual Basic Arena, Horus, WinOp, Modsim III, Taylor II, Proservice, Simulink, Pasion,GPSS/H NeuralWare Pro, JTLSetc.</p> <p>Simulation Hardware Logistics Laboratory (16 PC), Cocodrillo Labs (4 PC), COCODRIS Mobile Lab (4 PC), HLA Laboratory (6 PC), DIP Labs (3 PC), WILD Mobile Lab (5 Laptops), VR Lab (1 SGI, 1 WS, 6 VRPC), CYBERSAR Lab(9 PC), RAS Lab (8 PC)</p>
Center highlights	<p>Scientific Activities The MISS organized the following events:</p> <ul style="list-style-type: none"> • The International Workshop on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, HMS, in cooperation with MSC-LES • The International Mediterranean Modeling Multiconference, I3M, in cooperation with MSC-LES • The European Simulation Symposium and Exhibition - Simulation in Industry, EMSS, in cooperation with MSC-LES • The International Workshop in Modeling & Applied Simulation, MAS, in cooperation with MSC-LES <p>Networking Activity</p> <ul style="list-style-type: none"> • Simulation Team Development

Active Participation At Conferences

- SpringSim2008
- SCSC2008
- Serious Games 2008 Rome
- M&S Simulation Medical Science Workshops Genoa and Bologna
- I/ITSEC2008, Orlando
- ITEC2008, Stokolm
- Gesi User Group, Wien
- EMSS, Campora SG, Italy 2008
- HMS, Campora SG, Italy 2008
- I3M, Campora SG, Italy 2008
- MAS, Campora SG, Italy 2008
- ITEC 2009, Bruxelles, 2009
- Spring Sim, San Diego, CA, 2009

Exchange Programs in MISS Genoa Centre

MISS Genoa Guests:

- Prof. Joe Rose, from Dartmouth College, (February 2008)
- Prof. Miquel Angel Piera, Prof. Juan Jose Ramos, UAB Barcelona, (March 2008)
- Prof. Yuri Merkuriev, Riga TU, (March 2008)
- Prof. Gaby Neuman, Magdeburg Univ., (March 2008)
- Adeline Queau, Guests in DIPTM (July 2008-Jan 2009)

MISS Genoa Visitors

- [Agostino Bruzzone, Guests in CSU Australia \(May-June 2009\)](#)