

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

Genoa Center, Italy

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List of Research Activities & Projects - Subject - Type [Topic/Project] - Description - Year	Logistics Networks & Supply Chain Management MARLON: petro-chemical logistics funded by ENI Military Applications SAS085, Genova, February 1-4 Research on Agility (IA) for Computer Generated Forces (CGF): research project funded by Selex PANOPEA: joint research MISS-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 MISS-DIPTEM/US-JFCOM
List of Educational - Title - Type [University Course/Professional Course] - Year	Master Courses, Italy, 2010-2011: Industrial Plants: University of Genoa Supply Network: University Federico II Napoli Professional Courses, Italy 2010-2011: Logistics: Italian Ministry for Infrastructures and Transportation M&S: Italian MoD HLA: Italian MoD PhD Courses, University of Genoa, Italy, 2010-2011 "Modeling & Simulation", "Project Management & Concurrent Engineering in R&D Projects", "VW&A"
Center publications	1. Bruzzone A.G., Massei M., Pierfederici L. (2010) "Forecasting Models for Non Continuitive Production Systems Application in Fashion Industry", Proceedings of SpringSim, Orlando, April 11-15 2. * Bruzzone A.G., Cimino A, Diaz R, Longo F. (2010) "Inventory Control With Products Returns: A State Of The Art Overview", Spring Simulation Multi-Conference, Orlando, FL, Usa, April, 11-15, San Diego: Scs 3. * Bruzzone A. G., Erivot B, Massei M., Tarone F. (2010) "Integrated Solution Based On Simulation For Optimising Layout Re-Engineering", Proceedings of WAMS 2010, Buzios, May 5-7 4. * Bruzzone A.G. (2010) "CGF & Data Fusion for Simulating Harbor Protection & Asymmetric Marine Scenarios",

	Proceedings of SIM&SEA 2010, La Spezia, June 8
5.	* Bossomaier T., Bruzzone A.G, Cimino A, Longo F, Mirabelli G (2010) "Scientific Approaches For The Industrial Workstations Ergonomic Design: A Review", Proceedings Of The 24th European Conference On Modeling And Simulation, Kuala Lumpur, June 1-4, Kuala Lumpur, Vol. I, Istan/Issn: 978-0-9564944-0-5
6.	* Bruzzone A.G., Massei M., Madoe F., Tarone F. (2010) "Modelling Environmental Impact and Efficiency in Maritime Logistics", Proceedings of SCSC, Ottawa, 11-14 July
7.	* Bruzzone A.G., Madoe F., Tarone F. (2010) "Pool Based Scheduling and Inventory for Service in Complex Systems", Proceedings of ISIR2010, Budapest, August 23-27
8.	* Bruzzone A.G., Massei M. (2010) "Intelligent Agents for Modelling Country Reconstruction Operation", Proceedings of AfricaMS 2010, Gaborone, Botswana, September 6-8
9.	* Bruzzone A.G., Massei M. (2010) "Using Advanced IA CSG for Supporting Training & Experimentation in Country Reconstruction & Stabilization through Interoperable Simulation", Proceedings of KTO-MSG-076 Conference, Utrecht (Soesterberg) The Netherlands 16-17 September 2010
10.	* Bruzzone A.G., Cantire G., Cianci R., Longo F., Poggi S., (2010) "Simulation Integrated with Web 3D as Smart Support for Command and Control", Proceedings of MAS2010, Fes, Morocco, October 13-15
11.	* Bruzzone A.G., Madoe F., Tarone F. (2010) "Modelling Country Reconstruction Based On Civil Military Cooperation", Proceedings of EMSS 2010, Fes, Morocco, October 13-15
12.	* Bruzzone A.G., Massei M. (2010) "Advantage of mobile training for complex systems", Proceedings of MAS2010, Fes, Morocco, October 13-15
13.	* Bruzzone A.G., Tamori A., Bocca E., (2010) "Security & Safety Training and Assessment in Ports based on Interoperable Simulation", Proceedings of HMS2010, Fes, Morocco, October 13-15
14.	* Bruzzone A.G., Longo F., Mirabelli G., Saetta S., Bossomaier T. (2010) "Reverse Logistics And Inventory Management As Critical Issues For Supply Chain Sustainability", Proceedings Of The Summer School "Francesco Turco", Monopoli, Italy, September 14 - 18, Monopoli
15.	* Bruzzone A.G., Cimino A, Longo F, Mirabelli G (2010) "Tranports - Training In Marine Port By Using Simulation", Proceedings Of The 11th International Conference On Harbour Maritime And Multimodal Logistics Modeling & Simulation, Fes (Morocco), October 13-15, Fes, Vol. I, P. 25-32, Istan/Issn: 2-952474-7-5
16.	* Bruzzone A.G, Longo F. (2010) "An Advanced System For Supporting The Decision Process Within Large Scale Retail Stores", Simulation, ISSN 0037-5497, DOI 10.1177/0037549709348801
17.	* Bruzzone A.B., Frydman C, Junco S., Dauphin-Tanguy G. (2010) "International Conference On Integrated Modeling & Analysis In Applied Control & Automation", ESISA Press, ISBN 2-9524747-6-1, EAN 9782952474764
18.	* Bruzzone A.G., Frydman C., Longo F., Mekouar K., Pira M.A. (2010) "European Modeling & Simulation Symposium", ESISA Press, ISBN 2-9524747-8-8, EAN 9782952474788
19.	* Bruzzone A.G., Cunha G., Frydman C., Giambiasi N., Mekouar K., Mekouar Y., Pira M.A. (2010) "Harbor Maritime Multimodal Logistics Modeling & Simulation",

	<p>ESISA Press, ISBN 2-9524747-4-5 - EAN 9782952474740</p> <p>20. * Aguilar R.M., Bruzzone A.B., Frydman C., Longo F., Massei M., Mekouar K., Piera M.A. (2010) "Modeling & Applied Simulation", ESISA Press, ISBN 2-9524747-5-3, EAN 9782952474757</p>
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"> • NATO CAX Forum, Roma, Italy, Sept. 2011 ▪ The international Workshop on Applied Modelling and Simulation within SCM MEMTS 2011 Sankt-Petersburg, Russia ▪ SOSE Workshop, Prof.D.Mavris (GeorgiaTech) Lecture, June 2011 ▪ SAS085, Genova, February 1-4 Research on Agility ▪ NATO group IST-047 C4ISR, Genova, February 1-4 co-located meeting ▪ Modeling and Simulation DEA, bilateral meeting I-USA, november 2010 ▪ 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 ▪ CAPRICORN Users Meeting, Roma, Italy, May 2011 <p>Networking Activity <i>Active Participation at Conferences:</i> Spring Sim, Orlando, F, 2010 SCSC2010, Ottawa, I/ITSEC2010, Orlando ITEC2010, London EMSS, Fes, Morocco, 2010</p>

	<p>HMS, Fes, Morocco, 2010 I3M, Fes, Morocco, 2010 MAS, Fes, Morocco, 2010 Capstone Conference, Norfolk, 2010 SpringSim, Boston, M, 2011 ITEC 2011 Cologne AMS 2011, Manila FP7 meeting, Stavanger, Norway, 2011 ICCRTS, Quebec City, 2011 SCM MEMTS 2011 Sankt-Petersburg, Russia TBD: Graduate Student Forum of Beihang, 2011</p> <p><i>Active Participation at NATO Groups:</i> NATO Joint CAX Forum 2010 MSG-086 Simulation Interoperability 2010 NATO SAS-085, Washington, US, 2010 SAS-085, Paris, 2010 SAS085, Quebec City, 2011 NMSG SAS085 RTO MSG 085</p> <p><i>Active Participation at NTSA Event</i> Modeling and Simulation Stakeholder's Meeting Washington D.C. July 2010</p> <p>Exchange Programs in MISS Genoa Center <i>MISS Genoa Guests:</i> Amy Grom, Andy Bowers (USJFCOM) april 2010 Prof. Murat M.Gunal, Naval Academy, Turkey, July '10 Prof. Antonin Kavicka, University of Pardubice, Czech Rep., August 2010 Prof.Tuncer Oren, University of Ottawa, October 2010 Dr.Robert Sottolare, Army Research Laboratory, USA, november 2010 Prof. Lin Zhang, Beijing University of Aeronautics and Astronautics (Beihang University) november 2010 Lt. Arda Ceylan, Turkish Naval Academy, September-February 2011 Prof. Julija Petuhova, Riga Tech.University, February-July 2011 Prof. Luis Pastor, University Rey Juan Carlos, Madrid, S Dr. Jose de No, Consejo Superior de Investigaciones Cientificas – CSIC, Madrid, S, March 2011 Prof.Ryszard Klempous, Prof.Andrzej Kasprzak, Prof. Cezary Madryas, Wroclaw University of Technology, Poland (june 2011)</p> <p><i>MISS Genoa Visits</i> Agostino Bruzzone, Francesca Madeo, Federico Tarone</p>
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VMASC Norfolk (april 2010) Agostino Bruzzone, Marina Massei, ESISA, Fes, Morocco (june 2010) Agostino Bruzzone, University of Pardubice, Czech Rep. (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 Alberto Tremori, NATO C3 Agency, Brussels, Belgium (june 2011) Francesca Madro, SAS085 at Naval Reserve Mess, Quebec City, QC (june 2011)
