

THE 11TH INTERNATIONAL CONFERENCE ON MODELING AND APPLIED SIMULATION

SEPTEMBER 19-21 2012

VIENNA, AUSTRIA



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GENERAL CO-CHAIRS' MESSAGE

WELCOME TO MAS 2012!

On behalf of the Program Committee it is our pleasure to present to you the proceedings of the 11th International Conference on Modeling and Applied Simulation - MAS 2012.

MAS was established in 2002 as a joint event to HMS 2002 Bergeggi, Italy in order to provide an opportunity for Project Meetings. Several editions of MAS events were held during the past years in different European Countries (and not only). In particular, during the last three years MAS was held respectively in Tenerife (Spain), Fes (Morocco) and Rome (Italy) all the times collocated as a joint event with the International Multidisciplinary Modeling and Simulation Multiconference (I3M). The organizational structure of MAS 2012 is similar to other international scientific conferences. The backbone of the conference is the scientific program, which is complemented by workshops and open debates dedicated to special topics from the field of applied Modeling & simulation (M&S) and computer technologies; application fields include logistics, supply chain management, production control, business and industrial organization. In 1996 DIP University of Genoa (Italy) was driving the European Simulation Symposium (today the EMSS part of I3M) into the Simulation in Industry Event for demonstrating the potential of M&S applied in real world; in similar way MAS is an International Conference in M&S Applications.

We are delighted to report that among many submissions more than 50 papers from more than 20 different countries were selected by the program committee for presentation and discussion during the conference and subsequent publication in the conference proceedings. All submissions were reviewed by an international panel of at least 3 expert referees. We acknowledge the invaluable assistance of the program committee and the international referees, who opted to provide detailed and insightful comments to the authors.

Bridging the gap between theory and practice and incorporating theoretical results into useful products is still one of the main key issues for industrialized countries. Especially in the context of modeling and applied simulation it seems essential that researchers accept the challenge of solving real-world problems, making the science and technology based on mathematics, computer science and computational intelligence contribute to the progress of our developing communities.

MAS 2012 brings together fundamental and applied research contributions that reflect current trends and developments in modeling and applied simulation. We sincerely hope that the conference will encourage cross-fertilization between the various communities, bridging not only the gap between different fields but also, equally important, between different continents and cultures.

In closing, we would like to thank all authors for submitting their works, and all members of the Program Committee who contributed greatly to making the conference a success.

We wish you a fruitful and inspiring conference and a pleasant stay in Vienna.



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The MAS 2012 International Program Committee (IPC) has selected the papers for the Conference among many submissions; therefore, based on this effort, a very successful event is expected. The MAS 2012 IPC would like to thank all the authors as well as the reviewers for their invaluable work.

A special thank goes to all the organizations, institutions and societies that have supported and technically sponsored the event.

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Index

| | |
|--|----|
| Developing a simulation training tool for ultrasonography John Sokolowski, Catherine Banks, William Richards | 1 |
| Generation of alternatives for model predictive control in manufacturing Sören Stelzer, Sören Bergmann, Steffen Strassburger | 7 |
| Wrinkle effect in cloth simulation using fluidity control Jaruwan Mesit | 17 |
| Open benchmark database for multidisciplinary optimization problems Tuomo Varis, Tero Tuovinen | 23 |
| Remarks on Qubit neuron-based quantum neural servo controller Kazuhiko Takahashi | 31 |
| Start-up business success prediction by means of artificial neural networks Francisco García Fernández, Ignacio Soret Los Santos, Santiago Izquierdo, Francisco Llamazares Redondo, Francisco José Blanco Jiménez | 37 |
| A new design of FMS with multiple objectives using goal programming Berna Dengiz, Yusuf Tansel İç, Selin Coşkun, Nil Dağsalı, Damla Aksoy, Gözde Çizmeci | 42 |
| Field experiments for engineering augmented reality tools Gabriel Fernandes, Gerson Cunha, Celia Lopes, Luiz Landau, Alvaro L. G. de Azeredo Coutinho | 47 |
| Augmented reality system with chroma key for simulators Mario L. Ribeiro, Gerson Cunha, Jose L.D. Alves, Maria Celia Santos Lopes, Gabriel A. Fernandes, Luiz Landau, Cezar H.V. Da Costa | 53 |
| Advanced etching algorithms for process simulation of 3D MEMS-TUNABLE lasers Abderrazzak El Boukili | 60 |
| Modeling of water retention in substrates used in production of tomato "sweet grape" Honorato C. Pacco, Delvio Sandri, Sebastián Avelino Neto, Marco Antonio Amaral Jr., Ananda Helena Nunes Cunha | 66 |
| Cross-docking transshipment problem approached by non linear programming and simulation analysis Giuseppe Aiello, Mario Enea, Cinzia Muriana | 70 |
| The effect of toe mechanism for simulation of small biped walking robot by gait generation Krissana Nerakae, Hiroshi Hasegawa | 80 |
| Simulation of house prices for improved land valuation Terry Bossomaier, Zahid Islam, Rod Duncan, Junbin Gao | 86 |
| Unsupervised algorithm for retrieving characteristic patterns from time-warped data collections | 94 |

| | |
|--|-----|
| Tomáš Kocyan, Jan Martinovič, Michal Podhorányi, Ivo Vondrák | |
| Simulation of the flood warning process with competency-based description of human resources | 100 |
| Štěpán Kuchař, Michal Podhorányi, Jan Martinovič, Ivo Vondrák | |
| Supervised training of conversive hidden non-markovian models: increasing usability for gesture recognition | 106 |
| Sascha Bosse, Claudia Krull, Graham Horton | |
| A construction kit of flexible IT-services for supply chain planning and operations | 112 |
| Sebastian Steinbuß, Katja Klingebiel, Gökhan Yüzgülec, Tobias Hegmanns | |
| Improvement of thermochemical finishing processes: an application of a batch tracing system | 121 |
| Robert Schoech, Ruth Fleisch, Christian Hillbrand | |
| Simulation of uncertainty in rainfall-runoff models and their statistical evaluation in the FLOREON+ system | 128 |
| Štěpán Kuchař, Tomáš Kocyan, Pavel Praks, Martina Litschmannová, Jan Martinovič, Vít Vondrák | |
| Autonomous logistic processes of bike courier services using multiagent-based simulation | 134 |
| Max Gath, Thomas Wagner, Otthein Herzog | |
| MOSIPS agent-based model for predicting and simulating the impact of public policies on SMEs | 143 |
| Federico Pablo-Martì, María Teresa Gallo, Antonio García-Tabuenca, Juan Luis Santos, Tomás Mancha | |
| Monte Carlo simulation - the bank account selection in the Czech Republic according to the bank charges | 153 |
| Martina Kuncova, Lenka Lizalova | |
| Inertial acceleration application for wheel slip measurement of mobile robots | 161 |
| Daniel Szocs, Teodor Pană, Andrei Feneşan, Ioana Vese | |
| Visualization in business process simulation | 169 |
| Xiaoming Du, Terrence Finandor, Kuzhen Wu, Jialiang Yao | |
| Lumped parameters modelling of the furnace and steam systems of a 350 MW boiler | 175 |
| Edgardo J. Roldan-Villasana, Ma. Cardoso-G., Jose A. Tavira-Mondragon, Miguel Rossano-Román | |
| CFD simulations as a tool for flow and thermal analysis in boilers of power plants | 181 |
| Ivan F. Galindo-García, Ana K. Vazquez-Barragan, Miguel Rossano-Román | |
| Mathematical modeling of a heat recovery steam generator and its integration to a combined cycle power plant simulator | 187 |
| Jose Tavira-Mondragón, Luis Jiménez-Fraustro, Fernando Jiménez-Fraustro | |
| A simulation based design framework for large scale infrastructure systems design | 194 |
| Yilin Huang, Mamadou D. Seck, Michele Fumarola | |

| | |
|---|-----|
| Optimal allocation of economic resources using the AHP absolute model Fabio De Felice, Antonella Petrillo, Michele Tricarico | 202 |
| Ultra-fast registration of 2D electron microscopy images Santiago Garcia, Julio Kovacs, Pablo Chacon | 212 |
| GPU-accelerated modelling of biological membranes ION-transport Adam Gorecki, Krzysztof Dolowy | 218 |
| Description and optimization of the structure of horizontally homogeneous parallel and distributed processing systems Tiit Riismaa | 224 |
| Modelling and simulation of direct steam injection for tomato concentrate sterilization Paolo Casoli, Gabriele Copelli | 229 |
| eSBMTools: python tools for enriched structure based modeling Benjamin Lutz, Claude Sinner, Geertje Heuermann, Abhinav Verma, Alexander Schug | 237 |
| Modeling of rheological behaviour of tomato spreads E. Rosa, I. Peinado, A. Heredia, A. Andrés | 243 |
| Simulation of dilute-solution properties of biological macromolecules with the aid of high-performance computing Ricardo Rodríguez Schmidt, Diego Amorós Cerdán, José Hernández Cifre, Guillermo Díaz Baños, José García de la Torre | 248 |
| Augmented gallery guide Zuzana Haladova, Csaba Bolyos | 254 |
| A BPMN general framework for managing traceability in a food supply chain Giovanni Mirabelli, Teresa Pizzuti, Fernando Gómez-González, Miguel Angel Sanz- Bobi | 260 |
| Food traceability models: an overview of the state of the art Giovanni Mirabelli, Teresa Pizzuti, Fernando Gómez-González, Miguel Angel Sanz- Bobi | 268 |
| Analysis of airport check-in counter allocation policies using simulation Özden Onur Dalgiç, Yusuf Seçerdin, Gizem Sultan Nemetlu, Nilgün Fescioglu Unver | 278 |
| Investigating spatial nuclear power effects using 3D real-time model Janos Sebestyen Janosy | 286 |
| Advanced design of industrial mixers for fluid foods using computational fluid dynamics Davide Marchini, Federico Solari, Mattia Armenzoni, Roberto Montanari, Marta Rinaldi, Eleonora Bottani, Gino Ferretti, Giuseppe Vignali | 292 |
| Autonomous control in event logistics Florian Harjes, Bernd Scholz-Reiter | 302 |
| Supply chain simulation: a study on reorder policies for perishable food products | 308 |

| | |
|--|-----|
| Marta Rinaldi, Eleonora Bottani, Gino Ferretti, Mattia Armenzoni, Davide Marchini, Federico Solari, Giuseppe Vignali, Roberto Montanari | |
| Modelling and simulation of a fish processing factory ship Nadia Rego Monteil, Raquel Botana Lodeiros, Diego Crespo Pereira, David del Rio Vilas, Rosa Rios Prado | 316 |
| Integrated systems design in an automotive industry - using CAD and simulation in layout and process optimization Luis Dias, Guilherme Pereira, Pavel Vik, José Oliveira | 326 |
| Modeling and thermo-fluid dynamic simulation of a fresh pasta pasteurization process Eleonora Bottani, Gino Ferretti, Matteo Folezzani, Michele Manfredi, Roberto Montanari, Giuseppe Vignali | 335 |
| A lot-size simulation model with batch demand with special attention towards the holding costs Gerrit K. Janssens, Roongrat Pisuchpen, Patrick Beullens | 343 |
| Grid generation from video capture for meshless method thermal simulations Khaoula Lassoued, Tonino Sophy, Luis Le Moyne, Nesrine Zoglami | 348 |
| Customer/supplier requirements and behaviour modelling & simulation in service delivery Thècle Alix, Gregory Zacharewicz, Bruno Vallespir | 355 |
| Modeling selectivity banks for mixed model assembly lines Alex Blatchford, Yakov Fradkin, Oleg Gusikhin, Ravi Lote, Marco Pucciano, Onur Ulgen | 361 |
| Intermittent demand forecasting and stock control: an empirical study Adriano O. Solis, Letizia Nicoletti, Somnath Mukhopadhyay, Laura Agosteo, Antonio Delfino, Mirko Sartiano | 367 |
| A model of a biofilter for mechanical pulping waste-water treatment Stefano Saetta, Lorenzo Tiacci, Markku Tapola, Sara Hihnala | 375 |
| Models & interactive simulation for civil military interoperability in humanitarian aid and civil protection Agostino G. Bruzzone, Alberto Tremori, Francesco Longo, Michele Turi, Giulio Franzinetti | 381 |
| Renewable energy sources: advanced solutions for floating photovoltaic systems Giovanni Mirabelli, Letizia Nicoletti, Teresa Pizzuti, Pierluigi Stumpo | 387 |
| Intelligent systems for the core of anthropocentric objects and its modeling Boris Fedunov | 394 |
| Authors' Index | 401 |

The information reported above have been extracted from the MAS 2012 Conference Proceedings, ISBN 978-88-97999-10-2 (PDF), 978-88-97999-02-7 (Paperback)

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