The 6<sup>th</sup> International Conference on

# **IMAACA 2012**

Wien, Austria September 19-21, 2012

Integrated Modeling and Analysis in Applied Control and Automation

Part of I3M'2012, The 9th International Multidisciplinary Modeling & Simulation Multiconference

# **Conference Chairs**

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Daniel Viassolo, Vestas, Houston, TX, USA Costas Tzafestas, NTUA, Greece

## DEADLINES

Full Paper Due:	April	12, 2012
Acceptance Notification:	May	12, 2012
Final Submission:	June	12, 2012
Conference: Septen	ıber 19	-21, 2012

#### I3M'2012 General Chairs

<u>Agostino G. Bruzzone</u> University of Genoa, Italy

<u>Yuri Merkuryev</u> Riga Technical University, Latvia

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<u>Francesco Longo</u> M&S Net MSC-LES, Italy

# Call for Papers

As part of I3M'2012 (http://www.msc-les.org/conf/i3m2012/), IMAACA 2012 will be held jointly with the international conferences EMSS, MAS and HMS 2011 and the DHSS, IWISH, MISS and M&SNet Workshops. For news about the conference please visit periodically its website: http://www.msc-les.org/conf/imaaca2012/

#### **Objectives and Scope**

**IMAACA 2012** will bring experts together for the purpose of presenting and discussing all type of *application relevant control and automation problems* emphasizing the role of model analysis as integral part of the complete design of the automated system. Particularly, it will focus on new concepts, methods, techniques, and tools conceived in order to support an integrative interplay of modeling, identification, simulation, system analysis and control theory in all the stages of system design.

#### Topics

Continuous and Hybrid Systems, Lumped and Distributed Parameter Systems, Switched Systems, Qualitative Modeling, Bond Graph Modeling, Mathematical Modeling and Numerical Methods, Neural Networks, Fuzzy Systems, Nonlinear Systems, Large Scale Systems, Order Reduction and Model Simplification, System Identification, Adaptive Control, Expert Systems, Industrial Applications of Advanced Control, Intelligent Control, Multivariable Control, Nonlinear Control, Robust Control, Networked Control Systems, Fault Detection, Process Supervision, Software and Tools, CAD, Education.

# **Application Areas**

Aero and Astro, Agroindustries, Automation, Biomechanics, Prosthetics and Biomedical Engineering, Car Industry, Chemical Engineering and Process Control, Electrical and Power Systems, Environmental Systems, Food Industry, Integrated Manufacturing, Marine and Off-Shore Control, Mechatronics, Production Industry, Power Electronic Systems, Robotics & Mechanical Systems, Textile Industry, Transportation Systems.

## **Submission Site**

**Paper Submissions**: Only original papers written in English will be considered on the basis of a **full paper revision** by at least two members of the IPC. All submissions are to be made electronically through the conference submission website, which will soon be available.

# SPECIAL AND INVITED SESSIONS/TRACKS AT IMAACA 2012

#### • RENEWABLE ENERGY SYSTEMS. MODELING, SIMULATION & CONTROL.

CHAIRS: Rachid Outbib, LSIS, Université de Provence, Marseille, France, <u>rachid.outbib@lsis.org</u> Adrian Ilinca, LREE, Université du Québec à Rimouski, Canada, <u>adrian.ilinca@uqar.ca</u>

#### • MODELING AND CONTROL OF MECHATRONIC SYSTEMS.

CHAIRS: Jean-Yves Dieulot, LAGIS, Polytech'Lille, V. d'Ascq, France, <u>jean-yves.dieulot@polytech-lille.fr</u>, Julien Gomand, LSIS, Arts et métiers ParisTech, Aix-en-Provence, <u>julien.gomand@ensam.eu</u>

#### • SUPERVISION SYSTEM DESIGN IN INDUSTRIAL PROCESSES.

CHAIRS: Belkacem Ould-Bouamama, LAGIS, Polytech'Lille, France, <u>Belkacem.Ouldbouamama@polytechlille.fr</u>, Dominique Sauter, CRAN, Univ. Henri-Poincaré, Nancy, France, <u>dominique.sauter@cran.uhp-nancy.fr</u>

• MODELING, SIMULATION AND CONTROL OF NONLINEAR OSCILLATING SYSTEMS. CHAIR: Gianluca Gatti, Dept. of Mechanical Engineering, University of Calabria, Italy, <u>g.gatti@unical.it</u>

#### • ALGEBRAIC CONTROL: THEORY AND APPLICATIONS.

CHAIR: Christophe Sueur, École Centrale de Lille, Lille, France, christophe.sueur@ec-lille.fr

+ If you have a session or track proposal please contact :

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BEFORE FEBRUARY 1<sup>st</sup>, 2012.