



Universidade Estadual Paulista



Uniwersytet Zielonogórski



## 5<sup>th</sup> International IFAC Workshop on Discrete-Event System Design Campos do Jordão, Brazil

### Sponsored by

IFAC TC 3.1 - Computers for Control

### Co-Sponsored by

Brazilian Society for Automatics, SBA

Brazilian Computer Society, SBC

IFAC TC 1.3 – Discrete Event and Hybrid Systems

IFAC TC 3.2 – Computational Intelligence in Control

IFAC TC 3.3 – Telematics: Control via Communication Networks

### Organized by

Department of Computer Science, São Paulo State University, Brazil

### Co-Organized by

Institute of Computer Engineering and Electronics, University of Zielona Góra, Poland

## AIMS & SCOPE

DESDes'12 International Workshop is the fifth workshop on DESDes. The first three editions were organized by the University of Zielona Góra, Poland. The fourth one was the first to be organized outside Poland, by the University of Valencia, Spain. Continuing the experience of fruitful international co-operation in the subject with the view of further extending its scope, DESDes'12 is the first edition of this event to be organized outside Europe, by the São Paulo State University, Brazil. The Workshop is devoted to subjects concerning design, analysis and implementation of discrete-event systems, formal design methodology, digital signal processing and related topics.

## Main Topics

- \* Artificial Intelligence and Adaptive Systems
- \* Digital Communication Systems
- \* Digital Signal Processing Implementation
- \* Embedded Systems
- \* Formal Methods in Digital Design
- \* Hardware Description Languages
- \* Hardware-Software Co-Design
- \* Logic Controller Design

- \* Microprocessor Systems
- \* Modeling and Control of Biomedical Systems
- \* Petri Net-Based Digital Design
- \* Programmable Logic
- \* Real-Time System Programming
- \* Safety Critical Computer Control Applications
- \* System-on-Chip
- \* UML in Digital Design
- \* Web Engineering in Digital Design

## Submission

We invite authors to submit original papers, up to 6 pages, in PDF format through our website (<http://www.desdes.uz.zgora.pl>). The camera-ready version of accepted papers must be prepared according to authors' instructions as required for IFAC meetings (<http://www.ifac-control.org/events/information-for-ifac-authors>). Corresponding Word and Latex2e style can be downloaded from the Workshop website. Accepted papers must be presented in person at the Workshop. The final manuscript must be accompanied by a full registration fee payment proof.

## Important Dates

Draft papers submission: 15 May 2012 (**NEW!**)  
 Notification of acceptance: 17 June 2012 (**NEW!**)  
 Early Registration deadline: 30 June 2012  
 Camera-ready papers: 30 July 2012  
 Workshop: 01-04 October 2012

## Workshop Secretariat

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## Workshop Fees

Early registration: €400.00 (up to 30 June 2012)  
Late registration: €500.00 (after 30 June 2012)  
Student registration: €200.00

*Full fee includes: one copy of workshop preprints; accommodation in double rooms (full board regime); banquet; coffee breaks; welcome reception; and local tour.*

## Copyright Conditions

The material submitted for presentation at an IFAC meeting must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. Papers duly presented at Workshops will be archived by IFAC and may be offered for sale, in the form of Proceedings, by Workshop organizers. The presented papers will be further screened for possible publication in the IFAC Journals (*Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, and Mechatronics*), or in IFAC affiliated journals. All papers presented will be recorded as an IFAC Publication.

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## Location

It will be held in Campos do Jordão, known as the Brazilian Garden City. It's one of the most charming cities in São Paulo State – Brazil. It is located in a valley at the Mantiqueira mountain range, about 1700 metres above the sea level, in the woods with plane trees, and Brazilian pine trees (*araucarias*). It is considered the most European among the Brazilian cities for its climate, which is comparable to that of Davos Platz, in Switzerland. The quality of the air in Campos do Jordão has been found to present ozone and oxygen levels superior to those in Chamonix, France. The temperature in Campos do Jordão is mild, and the sun shines almost all the year round. Campos do Jordão is about 170km from São Paulo city, and about 300km from Rio de Janeiro. It is fairly easy to reach Campos do Jordão either from São Paulo or from Rio de Janeiro international airports. Part of the trip is done through expressways, and as it approaches Campos do Jordão a good mountain road reaches the city.