Special track on
"Discrete Event Systems:
Modeling, Performance Evaluation and Supervisory Control"
for INCOM2009

June 3-5, 2009, Moscow, Russia

http://incom09.org/

Track Chairs
- *Prof. Hassane Alla, Grenoble University, France*
- *Prof. Simona Caramihai, Polytechnic University of Bucharest, Romania*
- *Prof. Alessandro Giua, University of Cagliari, Italy*

The aim of this track is to present recent results in the field of Discrete Event Systems (DES) and to provide experts in that field with an opportunity to exchange information and discuss new developments in this field.

Research work in the field of DES is motivated by the needs of application domains such as manufacturing systems, software engineering, transport systems, communication systems, etc. Technological progress together with increasing demand of quality and productivity have induced the development of complex systems. Due to economical considerations, it has turned out crucial to make possible a large use of tools and methods aiming at analyzing, evaluating and controlling such systems in order to guarantee a priori that the specifications will be respected. These techniques can be based either on formal methods or on modeling and simulation.

Topics
The topics to this invited track include but are not restricted to:
- Formalisms and modeling techniques: Petri Nets, Automata, Markov Chains, Max-plus Algebra, …
- Performance evaluation diagnostic and optimization of DES
- Supervisory control and real time control of DES
- Design of safe controllers
- Applications to manufacturing systems, software engineering, transport systems…

Submission
The special track encourages not only formal academic papers, but also scientific contributions describing real case studies in the field of DES.

Submitted papers (6 pages in IFAC double column format) will be reviewed by at least two referees, see submission site http://ifac.papercept.net/ Both academic and industrial oriented communications will be considered. All papers accepted for presentation will appear in the Preprints and will be distributed to the participants. Papers duly presented at the Symposium will be archived in the form of Proceedings published at IFAC-PapersOnline.net by Elsevier. Further submission instructions are available on the IFAC website www.ifac-control.org. Several international journals are associated with the symposium for publication of special issues.

Important dates:

November 15, 2008: deadline for paper submission
January 6, 2009:   notification of acceptance/reject
March 15, 2009:   deadline for final paper.