

# Special Session on Application on Intelligent Systems in Planning and Scheduling of Manufacturing Systems (AISPSM2010)

Under the framework of the 10<sup>th</sup> International Conference on Intelligent Systems  
Design and Applications, ISDA'10  
November 29 – December 1, 2010, Cairo, Egypt  
Conference web page: <http://cig.iet.unipi.it/isda2010/>

## Session Chair

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**Introduction:** Due to economical considerations, past years the scheduling research involving non-regular performance measures has received much attention from practitioners as well as researchers to respond to the increasing competitive pressure in domestic and international market. Scheduling consists of planning and prioritizing activities that need to be performed in an orderly sequence of operation. It is a tool that optimizes the use of available resources. Scheduling leads to increased efficiency and capacity utilization, reducing time required to complete the jobs and consequently increasing the profitability of an organization. In most cases, scheduling problem is taken up only after solving the fundamental planning problem. So, it is of secondary importance when compared to the planning problem. Scheduling is considered only after answering these planning questions and knowing the availability of resources. Scheduling theory is concerned primarily with mathematical models that relate to the scheduling function and the development of useful models and techniques.

- Automated Planning and Scheduling
- Formulation, Modeling and Simulation techniques
- Multi objective optimization
- Optimization algorithms for Scheduling
- Genetic algorithm (GA)
- Search algorithm
- Scatter Search algorithm (SS)

- Particle Swarm Optimization (PSO)
- Simulated Annealing algorithm (SA) and
- Other topics related to planning & scheduling.

#### Instructions for Authors:

Papers must correspond to the requirements detailed in the (Paper Submission) on the conference flyer <http://cig.iet.unipi.it/isda2010/flyer.pdf> and All accepted papers will be published in the proceedings of ISDA'10 that will be also included in the IEEEExplore digital library. Extended versions of selected papers will be considered for publication

#### **Registration Fees:**

All papers must be presented by one of the authors, who must pay the registration fees.

<http://cig.iet.unipi.it/isda2010/>

#### **Paper Reviewing and Publication**

Submitted papers will be reviewed. Accepted papers, which should not exceed 6 pages (PDF) following the double column IEEE format. All accepted papers will be published in the proceedings of the ISDA'10. Selected papers will be published in special issues of a selection of International Journals (to be announced).

#### **Tentative Dates of Submission and Acceptance**

- Deadline for paper submission June 26, 2010
- Notification of acceptance August 14, 2010
- Camera-ready manuscript submission September 15, 2010