

# Special Session on Intelligent Systems for Industrial Processes (ISIP'10)

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 Chairs

**Leonardo Reyneri**

Dipartimento di Elettronica  
Politecnico di Torino  
C.so Duca degli Abruzzi, 24  
10128 TORINO - ITALY  
Phone +39 11 564 4038  
Email: [leonardo.reyneri@polito.it](mailto:leonardo.reyneri@polito.it)

**Valentina Colla**

Scuola Superiore Sant'Anna  
Laboratorio PERCRO  
Polo Sant'Anna Valdera  
Viale Rinaldo Piaggio 34,  
Pontedera, PISA - ITALY  
Phone: +39 050 883079  
Email: [colla@sssup.it](mailto:colla@sssup.it)

**Introduction:** Intelligent Systems are becoming a consolidated discipline which aims at improving various existing approaches in a wide variety of application areas. They shall therefore more and more prove their capabilities in real-world applications, such as those found in many industrial domains. It is clear that the use of Intelligent Systems becomes meaningful only when it aims at solving tough problems. Yet, because of the nature of complex problems, it is often difficult to compare their performance fairly with traditional approaches. Thus managers and decision-makers often find difficult and risky to apply a new technology unless they have a clear indication of its advantages, drawbacks and, most important, the added value the new technology offers. The aim of this special session is to gather contributions showing the effectiveness of Intelligent Systems applied to real-world industrial processes, with the aim to convince decision-makers of the advantages they can get with their use. It is important that the contributions provide a synthetic although clear view of the problem under consideration, together with a clear description of the Intelligent System used. They shall also present a comparison between the proposed approach and the state-of-the-art traditional techniques, preferably clearly stating all the costs (equipment, training, risks) involved and the achievable economical advantages.

- Intelligent and Hybrid Control Systems
- Intelligent adaptive and Robust Control
- Automotive and Transportation Systems
- Oceanic Engineering
- Neural Network Control
- Etc.

**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