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**Call for Papers**

**Track 6. COMPUTATIONAL INTELLIGENCE AND MODERN HEURISTICS IN AUTOMATION**

**Track co-Chairs**

**Eloy Irigoyen, University of the Basque Country, Spain**

[eloy.irigoyen@ehu.es](mailto:eloy.irigoyen@ehu.es)

**Matilde Santos, Complutense University of Madrid, Spain**

[msantos@dacya.ucm.es](mailto:msantos@dacya.ucm.es)

**Topics within the scope of the track:**

Track 6 on Computational Intelligence and Modern Heuristics in Automation aims to gather researchers reporting recent results in the development of computational intelligence, intelligent systems and control, data mining in automation and industrial applications. The track is also seeking papers related to modern heuristics criteria, methods, and principles in factory automation that are in practice “good quality” solutions.

The topics of this track include but are not limited to:

- Intelligent Systems and Control, Modern Heuristics, and Data Mining in automation and industrial applications
- Neural/Fuzzy/Evolutionary approaches in automation
- Modern heuristics methods in factory automation based on predictive, adaptive control, recognition, navigation, motion control, competitive, self-organizing learning, and clustering
- Computational Intelligence in security, reliability, and fault-tolerance in automation
- Ant colonies optimization and swarm intelligence in automation
- Machine learning, Support Vector Machines, Expert Systems

**Submission of Papers:** The working language of the conference is English. Two types of submissions are solicited. Long Papers – limited to 8 double column pages in a font no smaller than 10-points. Work-in-Progress and Industry practice – limited to 4 double column pages in a font no smaller than 10-points. Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site

**Best Paper Award:** Best paper awards in Factory Automation and Emerging Technologies will be presented at the conference banquet dinner. Authors of outstanding papers will be invited to submit a revised version of their papers for publication in a special section in IEEE Transactions on Industrial Informatics.

**Further Information:** ETFA'10 Conference Secretariat: Tel: +34 94 601 4048; Fax: +34 94 601 4187; Email: [contact@etfa2010.org](mailto:contact@etfa2010.org)

**Paper Acceptance:** Each accepted paper must be presented at the conference by one of the authors. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee, and their travel expenses.

**Author's Schedule:**

<i>Deadline for submission of long and special sessions papers:</i>	March 15, 2010
<i>Notification of acceptance of long and special sessions papers:</i>	May 9, 2010
<i>Deadline for submission of work-in-progress papers and Industry practice:</i>	May 24, 2010
<i>Notification of acceptance of work-in-progress papers and Industry practice:</i>	July 1, 2010
<i>Deadline for submission of final manuscripts – regular and special sessions:</i>	June 17, 2010
<i>Deadline for submission of final manuscripts – work-in-progress papers and Industry practice:</i>	July 14, 2010

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