ETFA'2015

20th IEEE International Conference on

Emerging Technologies and Factory Automation

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September 8-11, 2015, Luxembourg

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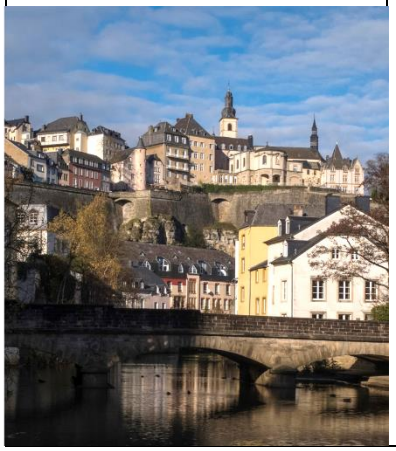

Call for Papers

Track 6. Computer Vision, Computational Intelligence, and Modern Heuristics in Automation

Track Co-Chairs

Boguslaw Cyganek, AGH Univ. of Science & Tech., Krakow, Poland, cyganek@agh.edu.pl

David Naso, Univ. of Bari, Italy, david.naso@gmail.com

Focus of the Track: The Track on Computer Vision, Computational Intelligence, and Modern Heuristics in Automation aims at bringing together researchers interested in computer vision, object detection and recognition, intelligence computational techniques and modern meta-heuristics developed for automation and industrial applications, as well as to present current research results and to share their experience.

Topics within the scope of the track

- Computer vision systems in science, technology and industrial applications
- Machine vision technology for flexible factory automation
- 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
- Automotive intelligent systems
- Expert systems in automation
- Hardware optimization based on computational intelligence techniques
- Expert systems for industrial applications

Aim: The aim of the conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of technology, as well as actual and potential applications to industrial and factory automation.

Solicited Papers: Research papers reporting on new developments in technological sciences. Industry and development papers reporting on actual developments of technology, products, systems and solutions. Tutorial and survey papers. Work-in-progress papers. In addition, ETFA 2015 solicits special session proposals to stimulate in-depth discussions in special areas relevant to the conference theme. Please consult the conference web page for more details.

Conference Format: The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation 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 papers – 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.

Further Information: ETFA2015 Conference Secretariat: Tel.: +352 / 46 66 44-5810; Fax.: +352 / 46 66 44-5200; Email: etfa2015@uni.lu

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.

No-show Policy: The ETFA2015 Organizing Committee reserves the right to exclude a paper from distribution after the conference at IEEE Xplore if the paper is not presented at the conference.

Author's Schedule:

Deadline for submission of regular and special sessions papers:	April 15, 2015
Notification of acceptance of regular and special sessions papers:	May 15, 2015
Deadline for submission of work-in-progress papers and Industry practice:	May 20, 2015
Notification of acceptance of work-in-progress papers and Industry practice:	June 20, 2015
Deadline for submission of final manuscripts – regular and special sessions:	July 1, 2015
Deadline for submission of final manuscripts – work-in-progress papers and Industry practice:	July 1, 2015

http://www.etfa2015.org