

Call for Contributions

Inform the Chair: with the Title of your Contribution

Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICONS+2017+Special>

Please select Track Preference as **ACISE**

Special track

ACISE: Applied Computational Intelligence in Systems Engineering

Chair and Coordinator:

Dr. Yoel Tenne, Ariel University, Israel

acise2017@planetmail.com

along with

ICONS 2017, April 23 - 27, 2017 - Venice, Italy

The Twelfth International Conference on Systems

<http://www.iaria.org/conferences2017/ICONS17.html>

The ever-increasing complexity of problems arising engineering and science has motivated the development and application of novel design, solution, and analysis methodologies. In particular, computational intelligence based methods have proven to be effective in challenging settings, and have therefore been extensively applied to such problems. Examples of such applications include nature-inspired single and multi-objective optimization, neural network based surrogate approximations, and data analysis assisted by machine learning, to name a few.

Given the extensive research and application of such methods, the goal of this special session is to provide a vivid forum for presenting recent advances in the domain of applied computational intelligence in systems engineering, both from theoretical and practical perspectives.

Topics of ACISE encompass, but are not limited to:

- Dedicated implementations of computational intelligence methods such as nature inspired optimization, neural networks, and fuzzy logic
- Reduction of expensive evaluations (surrogates, variable-fidelity, fitness inheritance).
- Methods for multi-objective, constrained, or robust problems
- Parallelization of algorithms (implementations on clusters, grids, parallel machines)
- Incorporation of expert systems and human-system interface
- Data mining and statistical analysis as assistive tools
- Examples and analysis of real-world applications in science and engineering

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: ~~January 15~~ **March 15**
- Notification with comments for camera-ready: ~~February 20~~ **March 22**
- Registration: ~~March 5~~ **April 1**
- Camera ready: ~~March 15~~ **April 1**

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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