

## Call for Contributions

**Inform the Chair:** with the Title of your Contribution

**Submission URL:**

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

Please select Track Preference as **ANNM-SAFE**

### Special track

## **ANNM-SAFE: Artificial Neural Network-based Methodologies for Power Plant Operation and Safety**

### **Chair and Coordinator**

Assoc. Prof. Dr. Tatiana Tambouratzis, University of Piraeus, Greece

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along with

**IMMM 2017, June 25 - 29, 2017- Venice, Italy**

The Seventh International Conference on Advances in Information Mining and Management

<http://www.iaria.org/conferences2017/IMMM17.html>

Power plant safety issues include monitoring and control during operation, good operator supervision, plant maintenance, emergency response and alarm system aid, as well as short- and long-term prediction of operation/status/regime, to name but a few. Complementary to customary approaches, the use of computational intelligence approaches (encompassing artificial neural networks, genetic algorithms and fuzzy logic, as well as their variants and combinations) has become a trend that is increasingly applied to all aspects of the safety of nuclear, thermal, chemical etc. power plants. This special track is focused upon the latter approaches, as well as upon comparisons between these approaches and more traditional (customary) tools that have been (and continue to be) used for the concurrent achievement of safe operation and maximal efficiency (output).

### **Topics include, but not limited to:**

- Power plant operations
- Electrical power generation/generator
- Fuel (coal, oil, natural gas, fossil fuel, nuclear fuel, solar, wind, wave and hydroelectric)
- Design challenges
- Operation under different regimes
- Monitoring
- Accident prevention
- Safety
- Behavior Prediction

### **Important Datelines**

- Inform the Chair: As soon as you decided to contribute
- Submission: ~~March 5~~ **May 17**
- Notification with comments for camera-ready: ~~April 5~~ **May 24**
- Registration: ~~April 20~~ **May 31**
- Camera ready: ~~May 12~~ **May 31**

## **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](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://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**

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

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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>

## **Contact**

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