

## Call for Contributions

### Submission:

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

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ENERGY+2018+Special>

Please select Track Preference as **AGR**

### Special track

## AGR: Analytics for Smart Grids Reliability and Resiliency

### Chairs and Coordinators

PhD Candidate, Vivian Sultan, Center of Information Systems and Technology, Claremont Graduate University, USA

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along with

**ENERGY 2018**, The Eighth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies

May 20, 2018 to May 24, 2018 - Nice, France

<http://www.iaria.org/conferences2018/ENERGY18.html>

Grid reliability is an understudied and important aspect of the smart grid. The grid reliability topic area aims to address challenges and remove barriers to integrating high penetrations of distributed energy generation at the transmission and distribution levels (Office of Energy Efficiency & Renewable Energy, 2017). The subject includes many unaddressed questions such as what makes the grid reliable. Why might reliability degrade? How do the changes in use of the grid that are underway impose such a risk? What can we do to improve the grid reliability? The U.S. Department of Energy has recently released its electric grid reliability study, recommending the research prioritization on the development for grid resiliency, and reliability (Profeta, 2017). Additionally, in the same month, the DOE's Office of Electricity Delivery and Energy Reliability (OE) announced an initial investment of nearly \$900,000 to address the risk and uncertainty of power systems, enabling academic research in the US. (Laezman, 2017).

Analytics have been a popular topic in both research and practice, particularly in the energy field. The use of analytics can help elucidate a root cause of a problem, define a solution through data, and also implement the solution with continuous monitoring and management. Analytics through the use of Geographic Information Systems, Machine Learning, and Data Mining techniques would set out to transform the way we think, act, and use energy.

To enable a more robust grid reliability research, we invite you to submit to the special track entitled "Analytics for Smart Grids Reliability and Resiliency". Through this special track, we intend to highlight the novel use of analytics to help solve our smart grids reliability and resiliency issue.

**Prospective authors** are invited to submit original papers on topics including, but not limited to:

- Modeling grid behavior

- Detecting outages
- Location analytics on smart grid resiliency
- Planning secondary and tertiary back up for smart grid
- Data management and pipeline to enable analytics
- Internet of Things (IoT) and sensors for analytics
- Recent advancement in analytics and smart grids

### **Important Datelines**

- Inform the Chairs: As soon as you decided to contribute
- Submission: February 7, 2018
- Notification: March 7, 2018
- Registration: March 21, 2018
- Camera ready: April 2, 2018

*Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.*

### **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>
- Conference proceedings are sent for indexing to ISI Thomson Reuters by Filodiritto/InFOROmatica Publisher, Italy

### **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>

### **Contacts**

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