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=MODOPT+2018
Please select Track Preference as **MODOPT**

Special track

MODOPT: Modeling and Optimization

Chair and Coordinator
Ian Flood, Rinker School, College of Design, Construction and Planning | University of Florida, USA
flood@ufl.edu

along with

INFOCOMP 2018, The Eighth International Conference on Advanced Communications and Computation
July 22, 2018 to July 26, 2018 - Barcelona, Spain
http://www.iaria.org/conferences2018/INFOCOMP18.html

Modeling and optimization are important design phases for software and hardware systems. With the development of mobile and wireless systems and applications, health and ambient systems, there is a need for new concepts and practices for modeling and optimization to be generalized.

MODOPT 2018 is dedicated to present and discuss innovative solutions or industrial impact on modeling and optimization. We solicit both academic, research, and industrial contributions. We welcome technical papers presenting research and practical results, position papers addressing the pros and cons of specific proposals, such as those being discussed in the standard fora or in industry consortia, survey papers addressing the key problems and solutions on any of the above topics short papers on work in progress, and panel proposals.

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

- Foundations of modeling and optimization
- Enterprise modeling and optimization
- Modeling and optimization in real-time systems
- Modeling and optimization in complex systems
- Model-based software and systems engineering
- Modeling computations on modern HPC architectures
- Empirical modeling
- Modeling data-intensive computing
- Algorithms and flow optimization
- Socio-inspired optimization algorithms
- Quality assurance and modeling (analysis, testing, verification)
- Functional and non-functional properties of models
- Programming models and frameworks
- Parallel algebraic modeling
- Model transformations
- Modeling in Internet-of-Thinks systems

- Modeling and optimization in Cloud-oriented systems
- Tools for modeling and optimization
- Languages and notations for modeling and optimization
- Programming aspects for modeling and optimization
- Parallel I/O optimization, convex optimization, stochastic optimization
- Quality, clarity, and accuracy in modeling
- Modeling and statistical modeling approaches
- Performance benchmarking and optimization
- Modeling domains (data analytics, big data, systems engineering, social media, devices and services, mobile applications, health applications, open source software)
- Input noise modeling
- Modeling and Optimization of 5G RAT/RAN (Radio Access Technology/Network)
- Modeling and Optimization of Cloud Access and Small Cells
- Modeling features (collaboration, scalability, security, interoperability, adaptability)
- Maintenance an extension of models
- Cost-effectiveness of models and optimization
- Models for performance analysis and prediction

Important Datelines

- Inform the Chair (see Contact below): As soon as you decided to contribute
- Submission: ~~May 28~~ June 15
- Notification: ~~June 20~~ June 25
- Registration: June 30
- Camera ready: June 30

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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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

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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.iaria.org/registration.html

Contacts
Chair: Ian Flood flood@ufl.edu
MODOPT logistics: steve@iaria.org