Call for Contributions

Note: Onsite and Online Options

In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

Submission:

 Inform the Chair: with the Title of your Contribution
Submission URL: <u>https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=INFOCOMP+2020+Special</u> 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 <u>flood@ufl.edu</u>

along with

INFOCOMP 2020, The Tenth International Conference on Advanced Communications and Computation September 27, 2020 to October 01, 2020 - Libon, Portugal https://www.iaria.org/conferences2020/INFOCOMP20.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 2020 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: August 3, 2020
- Notification: August 23, 2020
- Registration: September 2, 2020
- Camera-ready: September 2, 2020

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.: <u>http://www.proceedings.com/9769.html</u>
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

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Paper Submission

https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=INFOCOMP+2020+Special Please select Track Preference as MODOPT

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 <u>flood@ufl.edu</u> MODOPT logistics: <u>steve@iaria.org</u>