

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=INFOCOMP+2019+Special>

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 2019, The Ninth International Conference on Advanced Communications and Computation
July 28 - August 1, 2019 - Nice, France

<http://www.iaria.org/conferences2019/INFOCOMP19.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 2019 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-Things 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: April 19
- Notification: May 19
- Registration: June 2
- Camera ready: June 13

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>

MODOPT Advisory Committee

Ian Flood, Rinker School, College of Design, Construction and Planning | University of Florida, USA
 Mauro Iacono, Università degli Studi della Campania "Luigi Vanvitelli", Caserta, Italy
 Jay Lofstead, Sandia National Laboratories, USA
 Robert Wille, Johannes Kepler University Linz, Austria

Laura Carrington, PMaC Lab/SDSC/UCSD, USA

Frank Herrmann, Ostbayerische Technische Hochschule - Regensburg, Germany

MODOPT Publicity Chair

Ustijana Rechkoska-Shikoska, University for Information Science and Technology "St. Paul the Apostle" - Ohrid, Republic of Macedonia

MODOPT 2019 Program Committee Members

Boubakeur Benahmed, National Polytechnic School of Oran Maurice Audin, Algeria

Mohand Bentobache, University of Laghouat, Algeria

Lyes Benyoucef, Aix-Marseille University, France

Jinbo Bi, University of Connecticut, USA

Laura Carrington, PMaC Lab/SDSC/UCSD, USA

Qiang Shawn Cheng, The University of Kentucky, USA

Mohamed Djemai, University of Valenciennes, France

Ian Flood, Rinker School, College of Design, Construction and Planning | University of Florida, USA

Rachel Harrison, Oxford Brookes University, UK

Frank Herrmann, Ostbayerische Technische Hochschule Regensburg, Germany

Le Thi Hoai An, University of Lorraine, France

Mauro Iacono, Università degli Studi della Campania "Luigi Vanvitelli", Caserta, Italy

SangHyun Lee, University of Michigan, USA

Yaliang Li, SUNY Buffalo, USA

Jay Lofstead, Sandia National Laboratories, USA

Francois Malgouyres, IMT | Universite Paul Sabatier, France

Qi Mao, HERE, Chicago, USA

Roderick Melnik, Wilfrid Laurier University, Canada

Shashi Kant Mishra, Banaras Hindu University, Varanasi, India

Haralambos Mouratidis, University of Brighton, UK

Ustijana Rechkoska-Shikoska, University for Information Science and Technology "St. Paul the Apostle" - Ohrid, Republic of Macedonia

Claus-Peter Rückemann, Westfälische Wilhelms-Universität Münster / Leibniz Universität Hannover / North-German Supercomputing Alliance, Germany

Junming Shao, University of Electronic Science and Technology of China, China

Patrick Siarry, Université de Paris 12, France

Vassilios Verykios, Hellenic Open University, Greece

Robert Wille, Johannes Kepler University Linz, Austria

Dietmar Winkler, Vienna University of Technology, Austria

Daniela Zaharie, West University of Timisoara, Romania

Yan Zheng, University of Utah, USA

Paper Submission

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=INFOCOMP+2019+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 flood@ufl.edu

MODOPT logistics: steve@iaria.org