Matheuristics 2018

Seventh International Workshop on Model-based Metaheuristics

Tours, France, June 18-20

The Matheuristics workshop series is proposed as a primary forum for researchers working on exploiting mathematical programming techniques in a (meta)heuristic framework, granting to mathematical programming approaches the problem robustness and time effectiveness which characterize heuristics, or exploiting the mathematical programming model formulation in the customization of a heuristic for specific or general problems.

The seventh edition of the workshop will be hosted by the Operations Research, Scheduling, and Transportation research group of the Université François-Rabelais' Computer Science Laboratory in the city of Tours (France). The workshop aims at collecting contributions that define the state of the art for the computational effectiveness and efficiency or the theoretical properties of «matheuristics». The workshop will be entirely devoted to this subject of research and to its applications. The conference program will consist of plenary presentations, enriched by a couple of keynotes. Topics of interest include (but are not limited to):

- Model-based metaheuristics,

- Algorithms hybridizing (meta)heuristics and exact methods,

- MIP techniques used for defining heuristic solvers (such as local branching and RINS),

- Problem relaxations to guide (heuristic) search,

- Decompositions and lower/upper bounds exploited in metaheuristics,

- Stochastic programming and heuristic search,

- Matheuristics for stochastic problems,

- Design and configuration of matheuristic algorithms,

- Experimental analysis and modeling of algorithms,

- Real world success histories of matheuristic applications, and

- Automatic configuration of matheuristics and algorithm selection

Confirmed keynote speaker

Pascal van Hentenryck, University of Michigan (USA)

Hybrid Optimization: The Many Marriages of CP, MP, and SAT

Important dates

September 01, 2017: submission system opens

November 15, 2017: submission deadline

February 15, 2018: acceptance notification

March 01, 2018: camera ready papers

April 01, 2018: early bird registration closes

May 18, 2018: registration closes

June 18-20, 2018: workshop

Registration

Early student: 300 euros

Early regular: 400 euros

Accompanying person: 160 euros

The student and regular fees include lunch and coffee breaks, the social program and the conference dinner. The fee for accompanying persons include the social program.

Submissions

Submissions to Matheuristics 2018 should be comprehensive and self-contained, and relevant to the topic of the workshop. They must fall into one of the following categories:

1. Original contributions which have not been submitted to other conferences. These contributions must be submitted as extended abstracts between 6 to 8 pages and should be extensive enough to let referees assess the quality and the relevance of the work. Submissions belonging to this category must be typeset in LaTeX2e and formatted in the LNCS Springer style.

2. High-quality manuscripts that have recently, within the last six months, been submitted or accepted for journal publication.

All contributions will be first checked to ensure fitness with the workshop area of interest. The papers deemed consistent with the workshop focus will be reviewed on the basis of technical quality, relevance, significance, and clarity.

Organizing committee

Yannick Kergosien

Antoine Giret

Patrick Martineau

Jorge E. Mendoza

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More information

http://mh2018.sciencesconf.org/

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