

Special sessions

Mixed-Integer Optimization

6th World Congress on Global Optimization (WCGO 2019)

July 8 - 10, 2019, Metz, France

<https://wcgo2019.event.univ-lorraine.fr/>

Organizer: Prof. Yi-Shuai Niu (Shanghai Jiao Tong University, China).
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Yi-Shuai Niu is a Professor of Mathematics in Optimization and Operation research at Shanghai Jiao Tong University. He is working at both the school of the mathematical sciences and the Paristech Elite institute of technology. He is interested in Optimization theories and algorithms for large-scale non-convex optimization (DC Programming, mixed-integer optimization, polynomial optimization, semi-definite optimization and eigenvalue optimization) as well as High performance computing in multidisciplinary sciences (deep learning and machine learning, financial optimization, natural language processing, transport-logistics, telecommunication, image processing, turbulent combustion, polymer science and quantum chemistry).

General description of the special session

This session will focus on optimization theories and methods on optimization problems involving integer decision variables and their applications.

Session topics:

Relevant topics include, but are not limited to, the following:

- Pure integer and mixed-integer linear and nonlinear optimization (local and global approaches).
- GPU and CPU parallel computing techniques in mixed-integer optimization.
- Branch and Bound techniques, outer and inner approximation, parallelization...
- DC optimization and DCA.
- Convex relaxation and semi-definite relaxation.
- Cutting plan techniques.
- Large-scale mixed-integer optimization.
- Various applications of mixed-integer optimization.
- ...

Submission

Submissions are open at <https://wcgo2019.event.univ-lorraine.fr/page/submissions>
(Select the track “Special Session - Mixed-Integer Optimization”)

Important dates:

January 31, 2019	Deadline for the submission
February 28, 2019	Notification of acceptance/rejection