

Special sessions

Interior Point Methods (IPMs), Semi-Definite Programming (SDP) and their applications

6th World Congress on Global Optimization (WCGO 2019)

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

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Adnan YASSINE is a Full Professor the Higher Institute of Logistic Studies (ISEL) at the University of Le Havre Normandy in France and member of the Laboratory of Applied Mathematics of Le Havre (LMAH). He is author and co-author of numerous international publications in numerical and combinatorial optimization among. He obtained a PhD of Applied Mathematics at the University of Grenoble (France) in 1989 and Habilitation to Supervise Research (HDR) to the University of Nancy I (France) in 1998.

General description of the special session

Interior Point Methods (IPMs) and Semi-Definite Programming (SDP) are considered among the most effective approaches to solving different classes of convex optimization problems. Their importance lies, on the one hand, in their algorithmic richness and simplicity of development, and on the other hand, their ability to effectively solve many practical problems from different fields.

In these approaches, we consider all aspects of optimization problems: the development of new variants, complexity problems, implementation strategies, duality theory and sensitivity analysis.

Session topics

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

- Linear and Nonlinear Optimization
- Polynomial and Combinatorial Optimization
- Semi-Definite Programming (SDP)
- Interior Point Methods (IPMs)
- Primal-Dual Methods, Penalty Methods, Barrier Methods
- ...

Submission

Submissions are open at <https://wcgo2019.event.univ-lorraine.fr/page/submissions>

(Select the track “Special Session - Interior Point Methods (IPMs), Semi-Definite Programming (SDP) and their applications”)

Important dates:

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