

Special sessions

Multi-objective Optimization and its 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

Multi-objective optimization is a very important area of research because of the multi-objective nature of most real problems and especially in the logistics field. The first work on multi-objective problems was carried out in the 19th century on economics studies by Edgeworth and generalized by Pareto.

Multi-objective optimization is a fundamental area of multi-criteria decision support, which many scientific and industrial communities have to face. It is not a question of optimizing only one criterion but rather of simultaneously optimizing several criteria and which are generally conflicting.

For example, in a global supply chain, there are several actors where each actor seeks to optimize his own criteria and his own interests that are sometimes contradictory with the interests of the other actors of the chain. It is a question of proposing a set of solutions "not dominated in the sense of Pareto" to choose a solution acceptable by all the actors and which represents the best compromise.

This session is dedicated to the development of new multi-objective algorithms to solve real problems from different fields: industry, logistics, transport, etc.

Session topics

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

- Combinatorial Optimization and Operational Research
- Multi-objective Optimization: new algorithms and concrete applications
- Industrial problems, transportation and logistics problems
- ...

Submission

Submissions are open at <https://wcgo2019.event.univ-lorraine.fr/page/submissions>
(Select the track "Special Session - Multi-objective Optimization and its applications")

Important dates:

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