

2014 International Conference on Control, Decision and Information Technologies



CoDIT'14

**Call for papers -- Special Session on:
Polyhedra and Combinatorial Optimization – POC Group
for CODIT2014
November 3-5, 2014 - Metz, France**

Session chair

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Session description

For the past few decades, combinatorial optimization techniques have shown to be powerful tools for formulating, analysing and solving problems arising from practical decision situations. In particular, the polyhedral approach has been successfully applied for many well known NP-hard problems. The equivalence between separation and optimization has been behind a big development of this method. The so-called « Branch and Cut » method, which is inspired from this equivalence, is now widely used for obtaining optimal and near-optimal solutions for hard combinatorial optimization problems. The aim of this session is to present recent research dealing with polyhedral techniques. These may concern theoretical aspects as well as practical applications. Topics include and are not limited to:

Topics

- ▶ Cutting plane methods
- ▶ Branch-and-Cut algorithms
- ▶ Branch-and-Cut-and-Price algorithms
- ▶ Decomposition methods
- ▶ Mixed linear and nonlinear programming
- ▶ Extended formulations
- ▶ Polyhedral combinatorics

Submission

Please submit your full paper or extended abstract of 2 to 3 pages choosing the right track on the EasyChair site:
<https://www.easychair.org/conferences/?conf=codit14>

June 20, 2014: deadline for paper submission

July 10, 2014: notification of acceptance/reject

September 10, 2014: deadline for final paper and registration.

