



# International Conference on Computers & Industrial Engineering CIE45



## Call for papers -- Special Session on: Polyhedra and Combinatorial Optimization – POC Group for CIE45 October 28-30, 2015 - 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 on the EasyChair website:

<https://easychair.org/conferences/?conf=cie45>

- May 31, 2015:** deadline for paper submission  
**June 21, 2015:** notification of acceptance/reject  
**July 15, 2015:** deadline for final paper  
**August 16, 2015:** deadline for registration.

## Practical information

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 8 pages (in the standard CIE conference format). For up-to-date information and paper submission, please visit the conference submission page:

<https://easychair.org/conferences/?conf=cie45>

The proceedings of CIE 45 will be published on the web page of the conference and that of Computers & Industrial Engineering. They carry the identifier ISSN of 2164-8670 for the CD-ROM version and 2164-8689 for the Online version. A special issue of the international journal "COMPUTERS & INDUSTRIAL ENGINEERING" will be dedicated to the best papers presented at the conference after rigorous reviews.

For any practical issue please write to: [cie45@easychair.org](mailto:cie45@easychair.org)

