

**Special sessions**  
**Complementarity Problems: Applications, Theory and Algorithms**

6th World Congress on Global Optimization (WCGO 2019)

July 8 - 10, 2019, Metz, France

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

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**Description**

Complementarity conditions or equations naturally appear in the modeling of a wide variety of problems, such as economy, mechanics, thermodynamics, optimal control...

These equations, conditions or constraints increase the difficulty of numerically computing an approximate solution and classical methods for algebraic systems, e.g., semi-smooth Newton methods, often fail to find the correct solution or even to converge.

The purpose of this session is to promote new and efficient approaches, methods and algorithms and to illustrate their relevance on realistic applications, whenever possible.

We encourage submissions presenting original and recent research on real applications involving complementarity conditions and on new methods and algorithms to solve LCP, NCP, MPEC, and MPCC.

**Topics of interest**

Topics include but not limited to

- Linear and nonlinear complementarity
- Industrial models involving complementarity
- Mathematical programs with complementarity constraints
- Mathematical programs with equilibrium constraints
- Smoothing and relaxation methods
- Semi-smooth Newton-like methods
- Interior-point methods
- ...

**Submission**

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

(Select the track “Special Session – Complementarity Problems: Applications, Theory and Algorithms”)

**Important dates:**

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