



INVITED SESSION SUMMARY

Title of Session:

Global and Constrained Optimization: Algorithms and Applications

Name, Title and Affiliation of Chair:**Chair:**

Prof. Abdellah Chehri

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Co-Chaired by

Prof. Gwanggil Jeon

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Co-Chaired by

Prof. Paul Fortier

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Details of Session (including aim and scope):

Many scientists, mathematicians, and engineers want to find optimal solutions to their particular problems. Optimization techniques have become important and widely used in industry and science. With the emergence of large-scale networks and complex systems, significant research activity has occurred in the area of global optimization in recent years. Many new theoretical, algorithmic, and computational contributions have resulted. The primary aim of these works is to design numerical methods that attain global and fast local convergence guarantees.

The proposed special session aims to bring together new theories and applications of global and constrained optimization techniques to the data mining, internet/telecommunication, network utility maximization, medical applications, multimedia, computational finance, social network analysis, predictive control (industry 4.0), image, and signal processing problems.

The topics of interest include, but are not limited to:

- Global Minimum Point
- Equality Constrained Nonlinear Optimization Problems
- Large-Scale Optimization
- Engineering design optimization
- Distributed Constrained Optimization Method
- Linear Programming Problem
- Binary Quadratic Optimization
- Bayesian Constrained Optimization Approach
- Cooperative and Parallel Optimization
- Game Theory Concept
- Scheduling Algorithms
- Graph-Based Data Mining
- Stochastic Population-Based Optimization Algorithm
- Heuristic Methods

Important deadlines

- Submission deadline: **TBD**
- Acceptance/Reject notification: **TBD**
- Camera-ready: **TBD**
- Author Registration: **TBD**

Submission

Each submission should be at most 10 pages in total including bibliography and well-marked appendices and must follow the **Procedia proceedings format**.

Submissions for the conference must be made as complete papers (there is no abstract submission stage) submitted as PDF documents through the **PROSE online submission and review system**.

Publication

Authors who submit and present their work will have their work published and indexed internationally by Elsevier's Procedia Computer Science (<http://www.journals.elsevier.com/procedia-computer-science/>)

Website URL of Call for Papers (if any)

Conference: <http://kes2021.kesinternational.org>

Sessions: <http://kes2021.kesinternational.org/cms!Sdisplay.php>

Programme Committee (tentative)

- Rachid Saadane, SIRC/LAGeS-EHTP, Morocco
- Ado Adamou Abba Ari, Université Paris Saclay, France
- Wahabou Abdou, University of Burgundy, France
- Kondo Hloindo Adjallah, Université de Lorraine, France
- Kitsuchart Pasupa, King Mongkut's Institute of Technology Ladkrabang, Thailand
- Marcelo Keese Albertini Federal University of Uberlandia, Brazil.
- Xiangdong Chen, Nanjing University of Posts and Communications, China
- Wang Lei, University of Jinan, China
- Wahabou Abdou, University of Burgundy, France
- Cem Kaptan, University of Ottawa, Canada
- Liu Jinxin, University of Ottawa, Canada
- Saleh Bouarafa. LRIT, Morocco.
- Nadir Hakem, University of Quebec, UQAT, Canada.
- Nordine Quadar, University of Ottawa, Canada
- Albert Dipanda, University of Burgundy, France
- Xiaomin Yang, Sichuan University, China
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