



10th International Conference on Control,
Decision and Information Technologies

July 01 - 04, 2024

Valletta, Malta

CALL FOR PAPERS - SPECIAL SESSION
“Metaheuristics for smart industries”
for **CODIT 2024**
July 01-04, 2023 ▪ **Valletta, Malta**

Session Co-Chairs:

Dr. Ghita Bencheikh, CESI LINEACT, France - (email: gbencheikh@cesi.fr)

Dr. Yousra El Kihel, CESI LINEACT, France - (email: yelkihel@cesi.fr)

Dr. Houda Tlahig, CESI LINEACT, France - (email: htlahig@cesi.fr)

Dr. Belgacem Bettayeb, CESI LINEACT, France - (email: bbettayeb@cesi.fr)

Mrs. Candice Destouet, CESI LINECAT, France - (email : cdestouet@cesi.fr)

Session description:

Metaheuristics have proven their efficacy in resolving intricate industrial challenges. However, the integration of metaheuristics with Industry 4.0/5.0 technologies remains largely unexplored, despite the potential advantages it could offer to industrial processes. Successful adaptation of metaheuristics to advanced technologies can contribute to advancing sophisticated industrial optimization methods and easing the adoption of Industry 4.0 across diverse sectors.

The specific objective of this special session is to examine the incorporation of metaheuristics into Industry 4.0 technologies, aiming to enhance the effectiveness and efficiency of industrial processes. The focus lies on constructing adapted metaheuristics that receive real-time data from IoT sensors and utilize AI techniques to refine metaheuristic algorithms.

Within this framework, the special session concentrates on investigating new metaheuristics compatible with Industry 4.0 technologies. Consequently, it seeks to deliberate recent advancements and progress in this domain. The special session provides an excellent platform for knowledge exchange and fostering collaboration among experts in the field.

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

- Applications of metaheuristics in smart industries.
- Metaheuristics for multi-objective optimization in Industry 4.0/5.0
- Metaheuristics for energy-efficient production planning and control
- Hybrid metaheuristic approaches for integrated problems, such as joint scheduling of production, maintenance and transport, etc.
- Metaheuristics tailored for connected logistics.
- Implementing AI techniques to enhance metaheuristic algorithms.
- Benchmarking and performance analysis of metaheuristic algorithms in smart industries

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 03, 2024**: <http://controls.paperecept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2024 link** “Submit a Contribution to CoDIT 2024” and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

February 03, 2024: deadline for paper submission

April 14, 2024: notification of acceptance/reject

May 10, 2024: deadline for final paper and registration