



CALL FOR PAPERS - SPECIAL SESSION

“Metaheuristics, Heuristics and Optimization techniques for Green Vehicle Routing Problem and Internet of Things (MHO-GVRP-IoT)”

For CODIT'22

May 17-20, 2022 ▪ Istanbul, Turkey

Session Co-Chairs:

- Dr.DalilaTAYACHI, Ecole Supérieure de Commerce de Tunis, University of Manouba, Tunisia (email : dalila.tayachi@esct.uma.tn)
- Prof.Hanen IDOUDI, National School of Computer Science, University of Manouba, Tunisia (email : hanen.idoudi@ensi-uma.tn)

Session description

This special session deals with optimization problems in Internet of Things (IoT) applications with an emphasis on the Green Vehicle Routing problem.

With the exponential growth in connected objects' number and the generated amount of data and traffic, solving different kind of problems in Internet of Things (IoT) is becoming more and more complex. The use of approximate optimization methods and Artificial intelligence is an efficient approach to tackle this issue.

For instance, Vehicle Routing Problem under environmental concerns is considered in many IoT use cases such as in transportation systems, waste management, and disaster management or supply chain applications. It is known that the transportation sector is one of the largest energy consumer sectors and thus a big transmitter of carbon and greenhouse gas, causing dangerous environmental effects. In the last decades, many efforts were made to reduce these environmental threats. In this regard, the Green vehicle routing problem (GVRP) has emerged to optimize distribution strategies taking into account both economic costs and the environmental effects.

The goal of this special session is to discuss models and techniques for optimizing GVRP and different aspects of IoT. In particular, the use of GVRP problem to model specific IoT use cases will be considered. Networking problems, data analysis and treatment problems, security problems and special uses cases applications of IoT such as smart cities, ITS, e-health, Smart grid, Industry 4.0, etc., will be also treated.

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

- Heuristics and Metaheuristics for solving Green Vehicle Routing problems
- Multi-objective Optimization for Green Vehicle Routing problem
- Heuristics and Metaheuristics for modelling and solving IoT problems
- Green Vehicle Routing problem in IoT use cases
- Optimization techniques for IoT problems solving
- Multi-attribute decision making (MADM) and multiple objective decision making (MODM) approaches applied to IoT use cases
- Optimization problems in Big data
- Optimization problems in IoT networking
- Optimization problems in IoT security
- Optimization problems in cloud, fog and Edge
- Optimization problems in IoT applications: Smart cities, IoV, e-health, Industry 4.0, Smart Grid, etc.

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 07, 2022** : <http://controls.paperccept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2022 link** **“Submit a Contribution to CoDIT 2022” 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

January 07, 2022: deadline for paper submission

March 4, 2022: notification of acceptance/reject

March 30, 2022: deadline for final paper and registration