

Paris, France  
April 23-26, 2019



6<sup>th</sup> International Conference on Control,  
Decision and Information Technologies

CoDIT'19

**CALL FOR PAPERS**  
**SPECIAL SESSION ON**  
**“Formal Methods applied to Transportation and Industry 4.0”**  
**for CODIT'19**  
**April 23-26, 2019 –Paris, France**

**Session Co-Chairs :**

Prof. Dimitri Lefebvre, *University Le Havre, France* ([dimitri.lefebvre@univ-lehavre.fr](mailto:dimitri.lefebvre@univ-lehavre.fr))

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**Session description**

Recent developments in cyber-physical systems lead to huge changes in the models, methods and tools used to help the decision making in numerous domains. Smart Transportation and Industry 4.0 concepts are already impacting the way that researchers develop and propose new issues to resolve problems related to industry and service. In order to transform the paradigms of the Smart Transportation and Industry 4.0 into reality, a lot of work is still needed at modeling and optimization levels. Discrete event formalism, models and methods are concerned at first.

This session is devoted to the development and use of formal tools and methods with discrete event systems to contribute to these new challenges. The aim is to discuss the new trends, review industrial needs and present innovative solutions in the transportation and production sectors. The session includes (but is not restricted to) the following topics:

- Discrete event formalisms for Industry 4.0 and Smart Transportation problems,
  - Dioid algebra,
  - Automata and Petri nets,
  - Modelling and simulation,
  - Decision support systems,
  - Optimization and scheduling,
  - Resource allocation,
  - Monitoring,
  - Supervisory control,
  - Fault detection, isolation, and diagnosis.
- Application areas include (not exclusively):***
- Smart transportation,
  - Smart manufacturing,
  - Smart energy systems,
  - Embedded systems,
  - Power transmission systems,
  - Sensor networks.

**SUBMISSION**

Papers must be submitted electronically for peer review through PaperCept by **December 05, 2018**: <http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2019 link “Submit a Contribution to CoDIT'19” and follow the steps.**

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**

December 05, 2018: deadline for paper submission

February 08, 2019: notification of acceptance/rejection

February 28, 2019: deadline for final paper submission and registration

Prospective authors should let us know as soon as possible if they intend to submit a paper, by sending a title, a list of authors, and a short abstract with indication of the relationship to the session theme by Monday, November 19, 2018.