2020 IEEE International Conference on Industrial Informatics
July 12-15, Guangzhou, China

Special Session on
"Resilience, Reliability, and Security of Smart Mobility of Connected Automated Vehicles"

organized by

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Call for Papers

Theme:
As one key part of a smart city, intelligent transportation systems have attracted a lot of attention by virtue of the advanced management and monitoring systems with smart sensors and excellent information transformation based on Vehicle-to-X (V2X) technology. Such emerging techniques provide a wealth of knowledge of the traffic conditions for all vehicles to cruise or travel on a traffic-signal-free network, which can reduce traffic congestions, fuel consumptions, environment footprints, and enhance safety. However, frequent connectivity will render coordination and interaction problems due to the complex vehicle dynamics and unpredictable traffic conditions, especially when faced with resilience, reliability, and security challenges. Notably, the minimum safety distance among the vehicles must be guaranteed in real time. Such expected performance will arise some open questions for smart mobility of connected automated vehicles.

Topics of interest include, but are not limited to:
- Next Generation of Traffic Model and Control Strategy of Intelligent Transport Systems in Smart Mobility
- Recent Trends in Intelligent Transportation System
- Systematic Modelling and Simulation for Connected Automated Vehicles
- Advance Control Developments Using Multi-agent Cooperative Control
- Platooning Control of Connected Automated Vehicles
- Networked Control Systems
- Resilient System Design in Smart Mobility
- Fault Tolerant Control in Traffic Control
- Security Attacks and Human Decision in Smart Mobility
- Robust and Model predictive control
- Prognostics and health management
- Distributed fault detection and information fusion

Submissions Procedure: All the instructions for paper submission are included in the conference website https://indin2020.medmeeting.org/en

Fast track to transactions: INDIN 2020 presents a unique chance of fast-tracking best papers to IEEE Transactions on Industrial Informatics (TII). Authors intended to use the fast track shall submit papers in the form following the transactions requirements: length up to 8 pages, double-column

A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics (I.F.=7.377) subjects to further rounds of review

IEEE format, <u>without</u> authors' names and affiliations. If the paper is accepted and recommended for the transactions' submission, the authors will be asked to:

1) Revise the paper according to the reviewers' comments and submit it to the TII with attached point by point summary of revisions. The paper will be then subject to double blind review process of TII.

2) Prepare a shortened, 4 page long version for the INDIN proceedings and submit it by the 'final manuscripts due' deadline of INDIN 2020. This version shall include authors names and affiliations as per the usual INDIN template.

Deadlines:

Deadline for submission of papers: March 07, 2020
Notification of acceptance of papers: April 18, 2020
Final manuscripts due: May 09, 2020

A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics (I.F.=7.377) subjects to further rounds of review