Railway Track - Seville, Spain - October 21-23, 2015

“Interoperability, performance and resilience of railway transport systems”

Chair: Simon COLLART-DUTILLEUL, **Ifsttar**, France,

Co-Chair: Francesco ROTOLI, **Joint Research Centre of Seville** (The European Commission's in-house science service) Spain

The rail transport mode is the more effective and efficient by the fact it connects the most populated areas at increasingly high speeds, providing social cohesion at national, European and international level.

The interoperability and resilience of the rail systems are the key challenges to strengthen the competitiveness of rail products and operations. Moreover, the increasing speed opens the door to new services, crossing borders.

The aim of this track is to provide a forum for presenting and discussing recent research in transportation interoperability, performance and resilience and bring together the operational research and dependability communities.

This special track is an integral part of the conference program and will be subject to the same high standards and rigorous review. In the proceedings, the special track papers will not be distinguished from the main track technical papers. This track has its own submission process and includes a program committee of reviewers with appropriate backgrounds.

Special talks - "Perfect Project" - Project certified by i-Trans.

Chair: Francesco ROTOLI

The session proposes the development of the research project "Perfect".

- *Industrial needs concerning the safety analysis of a French implementation of ERTMS*
- *Towards an experimental testbed for interoperability analysis of railways regulation policies : methodological experiments and first retex.*
- *Integrated approach using formal models and simulation environment*
- *Evaluation of human error probabilities in railway systems*

Paper session

Chair: Khaled MESGHOUNI

The session topics are related to transportation safety and interoperability, including (but not limited to):

- Passengers, freight and logistics
- rail punctuality, capacity and accessibility
- Modelling and traffic management
- Transport information systems
- Applications and Requirements in Traffic and Transportation (Safety and Security, Simulation...)
- Safety, Methods for Risk Analysis; Risk Acceptance, Risk Measures, Signalling Applications.
- Methods and Tools for Modelling, Validation / Verification and Tests

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