



Thematic Session on Safety and Structural Integrity of Railway Structures and Rolling Stock

1. Thematic session title

Thematic Session on Safety and Structural Integrity of Railway Structures and Rolling Stock

2. Organizers, including affiliations

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4. Short description of the symposium including the scope and target public

The Thematic Session on Safety and Structural Integrity of Railway Structures and Rolling Stock (F-IRAS2019-RSRS) is organised by the Faculty of Engineering of the University of Porto (FEUP), which will take place in the beautiful city of Porto, Portugal, on 01-02 July 2019. This Symposium will be devoted to theoretical, experimental and computational investigations (or a combination of these) with regard to safety, maintenance and management of railway structures and railway vehicles. Expected papers should cover various types of railway infrastructure such as bridges, viaducts, runnels, track (ballasted and non-ballasted systems) and all type of railway vehicles. Other relevant topics for discussion will be: vehicle-infrastructure interaction, train-induced ground vibrations, geotechnical aspects (earthworks, embankments and stabilisation), reliability and runnability of railway infrastructure in strong winds and/or earthquake-prone areas.

The goal of the Thematic Session on Safety and Structural Integrity of Railway Structures and Rolling Stock (F-IRAS2019-RSRS) is to provide a platform to present the last research advances on:

- Railway Technology
- Traffic Safety
- Structural Safety and Reliability
- Inspection, Monitoring, Repair and Maintenance of Railway Structures and Vehicles
- Structural and Vehicle Dynamics
- Vehicle-Structure Interaction

All contributions in the form of extended abstracts will be peer reviewed by the members of G-IRAS2019-FMLA Scientific Committee. Full papers will be published in special issues of the scientific journals available for IRAS2019 event upon peer review and acceptance.

Please submit your work by email to **pires@fe.up.pt** or **iras2019@fe.up.pt** with subject **F-IRAS2019-RSRS**.