19 / 23
Sept. 2021
ANGERS
.FR

European Safety and Reliability Conference

esrel2021.org

CALL FOR ABSTRACTS

Special session on
Reliability and Availability Issues of the 5G Revolution

Description

The deployment of 5G communications will revolutionize huge swathes of industry for which reliability, availability and safety issues have yet to be assessed. This session will provide a forum for discussions of new results, architectures, and ideas: Theoretical papers, models, open problems and industrial use cases are welcome.

Motivation

5G promotes three types of services that will profoundly affect current industries and create new ones:

- Enhanced mobile broadband (eMBB): Increased speeds for applications requiring high data rates (video streaming, virtual reality, etc.).
- Ultra-reliable low latency communications (URLLC): Low latency for mission-critical services (industrial automation, autonomous driving, smart energy, etc.).

- Massive Machine Type Communication (mMTC): Internet of Things (connection of huge numbers of sensors and devices).

Reliability, availability, and system safety aspects of this new industrial territory are still unexplored. It should appeal to and benefit from the ESREL audience.

Objective

Facilitate exchanges of results and ideas between academic and industrial researchers, as well as practitioners, willing to address emerging challenges in present and future industries brought by the deployment of 5G communications.

Organizer

Christian Tanguy, [*christian.tanguy@orange.com*](mailto:christian.tanguy@orange.com)*, Orange Labs, Châtillon, France*

The validation of the special sessions will be done under the responsibility of the technical and scientific committee. Organizers are invited to provide a list of reviewers that may be supplemented by TC members to ensure consistency in the evaluation process.