

## Call for Papers

### SS03 - Special Session on 5G as a part of Factories of the Future

#### Organized and Co-Chaired by (sorted by last name)

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❖ **FOCUS.** This special session is dedicated to bring together experts from various domains, such as IT, Telecommunication, and Automation, in order to elaborate on challenges in the area of industrial communication. Nowadays, several highly sophisticated technologies are implemented in factories realizing a high variety of industrial applications and achieving high performances in terms of cycle times and reliability. However, this performance is typically only feasible within strictly defined technologies or vendor specific communication domains, so that the interoperability becomes a big issue. 5G promises to open new possibilities, especially for flexible and converge networks that can dynamically adjust. Big challenges are also vendor-independent configuration and management and an efficient integration with the existing systems to fulfil requirement of industrial applications.

#### ❖ TOPICS

- ❖ 5G based case studies
- ❖ Abstract modelling and mapping of application requirements and technology capabilities
- ❖ Safety and Security with regard to 5G industrial network management systems
- ❖ Future-proof, user-friendly, and dynamic network management concepts for the industrial networks
- ❖ Innovative algorithms and concepts for control of 5G based industrial networks
- ❖ Integration strategies with legacy communication systems
- ❖ Time Sensitive Networking over 5G
- ❖ 5G edge computing and its co-design with the data transport network
- ❖ Concepts of future-proof architectures to support the upcoming 5G implementations
- ❖ Machine Learning for 5G networks
- ❖ Other 5G related topics

❖ **AIM.** The aim of the Special Session is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of 5G as a part of Factories of the Future.

❖ **CONFERENCE FORMAT.** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.

#### ❖ AUTHOR'S SCHEDULE (2021)

##### ❖ Regular and special sessions papers

Submission deadline ..... May 7  
Acceptance notification ..... June 4  
Deadline for final manuscripts ..... July 14

##### ❖ Work-in-progress/Industry practice papers

Submission deadline ..... June 11  
Acceptance notification ..... July 7  
Deadline for final manuscripts ..... July 14