

# INDIN2021 19th IEEE International Conference on Industrial Informatics INDIN'21

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## **Call for Papers**

## **Track 13 - Industrial Informatics Tools**

Bilal Ahmad<sup>§</sup>, Andrei Lobov<sup>♦</sup>, Lei Shu<sup>\*</sup>

- The University of Warwick, UK, b.ahmad@warwic.ac.uk
- Norwegian University of Science and Technology, Norway, andrei.lobov@ntnu.no
  - \* University of Lincoln, UK, Ishu@lincoln.ac.uk
- \* FOCUS. In recent years, we have been witnessing rapid changes in the industrial environment driven by disruptive advances in informatics, artificial intelligence, automation and control technologies. These advances are creating the need and opportunity for innovative engineering tools and methods to better-support the realisation of smart industries. The timely, well-integrated handling and processing of information is the key to the realisation of smarter industrial environments. Achieving this requires powerful, user-friendly, tools that can manage complex and sometimes cross-domain industrial applications integrating multidisciplinary knowledge. This Technical Track invites papers showing such developments, e.g., tools that can simplify engineering tasks, provide new insights into system modelling, improve the representation, processing, analysis or exchange of information at various lifecycle phases and operational levels in industrial systems. Submitted papers should clearly state, show and compare the benefits of the described tool (or tools) in comparison to the state of the art. A user-centric perspective should be adopted when describing tools, so that the role of and benefit to the user is clearly explained, e.g. detailing the application engineering approach and explaining how this aids the user and/or system productivity.
- TOPICS. The topics for this special session include, but not limited to, the following areas:
  - ❖ Tools to support specific methods proving that without given tool(s) an application of a given method will be difficult
  - Tools to support vertical and/or horizontal integration of systems and/or
  - ❖ Tools to support product and/or system lifecycle management
  - Tools for engineering complex cross-domain systems
  - Tools for data/information exchange and integration
  - Tools for data acquisition, processing, analysis and visualization
- AIM. IEEE INDIN is a flagship conference of IEEE Industrial Electronics Society providing a forum for presentation and discussion of the state-of-art and future perspectives of industrial information technologies, where industry experts, researchers, and academics share ideas and report on recent developments, deployments, technology trends and research results, as well as initiatives related to industrial informatics and their application.

### **Track Programme Committee**

- Maz Ahmad, Manufacturing Technology Centre, UK
- Mohamed Amine Ferrag, Guelma, University, Algeria
- Miguel Martínez García, Loughborough University, UK
- Guangjie Han, Dalian University of Technology, China
- Cecilia Haskins, Norwegian University of Science and Technology, Norway
- Bjørn Haugen, Norwegian University of Science and Technology, Norway
- Kai Huang, Nanjing Agricultural University, China
- Zhiqiang Huo, University of Lincoln, UK
- Ye Liu Nanjing Agricultural University,
- Xiaoyuan Ma, Svenska Kullager-Fabriken, China
- Fabio Sgarbossa, Norwegian University of Science and Technology, Norway
- Pengju Si, Henan University of Science and Technology, China
- Martin Steinert, Norwegian University of Science and Technology, Norway
- Torgeir Welo, Norwegian University of Science and Technology, Norway
- Jianbin Xiong, Guangdong Polytechnic Normal University, China
- Xing Yi, Svenska Kullager-Fabriken, China
- Yu Zhang, Loughborough University, UK
- Zhangbing Zhou, China University of Geosciences, China

\* CONFERENCE FORMAT. The conference will include multitrack sessions, for both Regular an Special Session papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations; Industry Forum sessions, in which invited speakers will present use cases, changes, and challenges faced by industry associated with the technical areas of IES; and Tutorials sessions, in which selected speakers will explain state-of-the-art and ongoing hot research techniques and tools, together with hands-on experiments, aimed at solving problems faced by industrial informatics engineers and researchers.

#### **❖** AUTHOR'S SCHEDULE (2020)

Regular and Special Session (SS) papers

SS proposals deadline ...... January 24 Papers submission deadline ...... March 31 Acceptance notification ...... June 11 Deadline for final manuscripts ...... June 30

Tutorial proposals deadline ...... April 23





