

2017 IEEE International Conference on Industrial Informatics

Special Session/ Organized Session on

“Smart Data and Data Analytics for Automation and Manufacturing Systems” organized by

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Call for Papers

Theme: Smart Data and advanced data analytics enable new possibilities and opportunities in the context of engineering, production and automation system along the whole life-cycle of products and systems: Design & development, manufacturing, operation, maintenance and end-of-life. The specific requirements of the domains like real-time operation and dependability pose special requirements towards smart data and data analytics.

This special session is dedicated to the application of Smart Data concepts in technologies to real-world automation and engineering problems.

Topics of interest include, but are not limited to:

- Smart Data and Advanced Data Analytics Applications in automated production systems
- Smart and Big Data tools technologies in Engineering Applications (e.g. MapReduce, Spark, Flink, NoSQL, Complex Event Processing)
- Analyzing heterogeneous data (e.g. combination of process, alarm, engineering and log data)
- Knowledge representation and visualization (model, implementation on embedded systems)

- Data preparation and curation to enable data analysis
- Appropriate architectures and platform requirements
- Agent technology and service based systems
- Data and Information Visualization (e.g. for Operators or Engineers)
- Real time requirements and dependability of data based decisions
- Case studies and successful application reports (academia and industry)

Submissions Procedure: All the instructions for paper submission are included in the conference website <http://www.indin2017.i2ar.de>

Deadlines:

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| Deadline for submission of papers: | March 28, 2017 |
| Notification of acceptance of papers: | April 14, 2017 |
| Final manuscripts due: | May 19, 2017 |