

2017 IEEE International Conference on Industrial Informatics

Special Session on

“Industry 4.0: Keeping Humans in the Loop and in Control”

organized by

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Call for Papers

Theme: Industry 4.0 is coming. Industrial Internet of Things and other technologies exploiting distributed data sensing, gathering and analysis for autonomous decision making will soon enable a level of automation never seen before. The challenge is whether human operators will be able to stay in the loop, keep control and efficiently interact with such dehumanized environments. Human-system integration, in terms of both reduction of information loss in the human-machine interaction channel and improvement of reciprocal understanding between humans and systems, is still to be explored in the Factory Automation area.

Topics of interest include, but are not limited to:

- Ensuring human integration in factory automation: advanced interaction technologies and design methodologies, augmented cognition, and innovative data visualization
- Smart human interaction with networked smart objects in factory automation
- Intelligent and reliable data fusion and analysis for autonomous and semi-autonomous decision making
- Collaboration among connected objects for human safety enforcement in Industry 4.0
- Approaches, paradigms, tools, and devices for advanced interfaces between operators and machines dedicated to data visualization and control
- Interfaces for CCCC (Command, Control, Communications & Countermeasures) in the factory domain
- Ontologies and formal descriptions of intelligent systems and smart processes

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

Deadlines:	Deadline for submission of papers:	March 28, 2017
	Notification of acceptance of papers:	May 5, 2017
	Final manuscripts due:	June 2, 2017

A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics (I.F.=4.708), subject to further rounds of review