

THE JOURNAL OF ENGINEERING

IET Open Access Research

SPECIAL SECTION:

Industry 4.0: the DIGITAL Transformation in the Engineering findings (DIGITATE)

The goal of this special issue is to bring the attention of researchers to the opportunities and challenges involved in research findings across a broad spectrum of engineering fields, with attention to the validity of the research being reported. This includes the soundness of the research methods employed and the analysis undertaken to reach conclusions.

Industry 4.0 is considered an opportunity for companies to accelerate the processes that will lead to fully automated and interconnected industrial production, improving performance and productivity. The aim of the issue is to cover relevant research topics, aspects and essential technological components of the fourth industrial revolution of the Industry 4.0 digital transformation. Such topics are analyzed and studied from several engineering perspectives, including but not limited to, Internet of Things (IoT) convergence of IT and OT, digital simulation models, cyber-physical systems, advanced robots, smart manufacturing, autonomous production, consistent engineering across the entire value chain, data collection and provisioning, the cloud, big data analytics, virtual/augmented reality and edge computing, and generally speaking industrial techniques to realize smart industry and manufacturing goals in the intersection of people, new technologies and innovation.

Topics of interest include, but are not limited to:

- Big Data/Analytics and innovation accelerators
- (Industrial) Internet of Things
- IoT devices, sensors and actuators
- Robotics, data, artificial intelligence
- Manufacturing processes to realize connected factories
- Smart decentralized manufacturing

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Submission Deadline: 1st July 2018

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