

Advances in Manufacturing

Call for papers

Special Issue on: "IoT applications in Manufacturing and Logistics"



Aim:

Smart manufacturing and Internet of Things (IOT) are emerging as new complementary technologies. Equally, supply chains and logistics networks are becoming international, complex and vulnerable to uncertainties. The paradigm of complex production systems is changing its direction, resulting in the increase in adoption of the smart physical devices of IoT such as sensors and actuators, which are interconnected and controlled through software services using cloud infrastructure. They further require large scale storage space, big data, high end computer processing power, greater flexibility, and interoperable network protocols. Thus the convergence of cloud with the IoT has the potential to provide new levels of services in various sectors including science, research, and other smart manufacturing organizations. Moreover, the evolving information technologies and IOT have created an environment where objectives such as robustness and cost optimized solutions are shaping the needs for big data application, machine learning tools, data mining techniques and soft computing algorithms.

This special issue aims to foster the dissemination of high-quality research with emerging ideas, approaches, theories and practice to resolve the challenging issues related to the new developments in IoT and Logistics management. For instance, manufacturing of semiconductors, used in the integrated circuits, is a multifaceted process involving highly controlled production environment, sophisticated equipment and diverse variety. Using the big data and information technologies, specific issues can be targeted. Low cost solutions, fault detection, resource allocation, increasing production, etc. can be focussed more accurately.

Scope:

Topics to be addressed (not limited to the mentioned aspects) are listed as follows:

- Internet of things and smart manufacturing
- Manufacturing using IOT
- Logistics and supply chain management
- IOT in Logistics management
- Smart appliance networks
- Performance evaluation and modelling
- Data mining analytics applied to smart cities
- Big data applications
- Impact on IOT in Supply chain management
- IoT architecture, tools and applications for data analysis
- IoT platforms for big data and data analytics
- Ambient-oriented technologies

- Intelligent data analysis
- Social data mining techniques
- Cognitive IoT Architecture and Fog computing
- Innovative Big Data processing for IoT
- Smart environments and applications
- Machine learning and Real-time intelligence
- Intelligent sensors and sensing applications
- Challenges in big data storage and processing
- Mining and recommendation techniques for IoT environments
- Data mining techniques applied to manufacturing domain

Submission Guidelines:

The paper submitted must be original, high quality and not published, submitted and/or presently under review elsewhere. Manuscripts should be submitted through the publisher's online system for [Advances in Manufacturing \(AIM\), Springer](#). Please follow the instructions carefully abide by the same. Submissions will be reviewed according to rigorous standards and procedures through peer review by at least two qualified reviewers.

Publication Schedule:

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| Deadline for manuscript submission: | 30 April 2017 |
| Review report: | 15 August 2017 |
| Revised paper submission deadline | 30 November 2017 |
| Notification of final acceptance: | 30 December 2017 |

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