Big Data Analytics for the Industrial Internet of Things

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closed (29 February 2024)

Message from the Guest Editors

This Special Issue aims to collect consolidated research findings and stimulate novel approaches and ideas on how to leverage the Big Data produced by IIoT devices to best support the production process and boost the business of manufacturing companies.

Potential topics include, but are not limited to, the following:

- Big Data gathering and processing in manufacturing environments;
- Distributed data processing in the Cloud continuum;
- Big Data processing for industrial control;
- Big Data processing for production control;
- Hybrid and distributed Digital Twins;
- AI/ML models in the control loop;
- Distributed ML for IIoT;
- Big Data for model-driven industrial control systems;
- Analytics for Big Data at rest;
- Resource virtualization to support data management;
- Industrial Big Data confidentiality, tampering and leakage;
- Security for IIoT devices;
- Interoperability and compliance with IIoT reference architectures;
- Scalability and robustness of data-intensive control loops.

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Special Issue

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Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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