Special Session on

"IoT automation technologies, tools and applications"
Organized by

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Call for Papers

The Industrial Internet of Things (IIoT) is now capable of providing solutions for various issues in the industrial domain, focusing on Machine-to-Machine communications, Big Data and Analytics. IIoT is supported by multiple frameworks, protocols and standards, allowing data collection from sensors, its dissemination and analysis, with the objective of enhancing manufacturing and industrial processes. Application use-cases have already appeared in various fields of the industry - not only in laboratories but real-life deployments, and deployment results start to provide insights for best practices. Also various tools aiding the engineering process of artifacts are more and more frequently used in IIoT contexts.

Topics of the Session:
- Frameworks for the development of IIoT solutions
- Engineering process for IIoT solutions
- Engineering tools and toolchains for the IIoT
- Security solutions for IIoT systems
- Performance of IIoT architectures
- Standardisation of software architectures and communication protocols for interoperability, portability and configurability in SoS and IoT
- IIoT engineering tools
- Advanced techniques for verification and validation of SoS and IoT systems
- Interoperability between IIoT standards and existing industrial technologies
- Advanced analytics for IIoT use cases
- Application use cases and project pilots of IIoT technologies