Special Issue

Advanced Process Monitoring for Industry 4.0

Message from the Guest Editors

This Special Issue aims to bring together recent advances in the broad field of Advanced Process Monitoring for Industry 4.0, including all the activities related to fault detection, diagnosis, and prognosis. Papers on data-driven, model-based, and hybrid monitoring approaches for continuous, batch, and discrete processes are welcomed, especially when addressing emerging challenges of the new industrial technology landscape, such as, but not limited to:

- High-dimensional process monitoring;
- Dealing with heterogeneous data sources;
- Image-based process monitoring;
- Monitoring 3D objects (e.g., from additive manufacturing);
- Artificial Intelligence for process monitoring;
- Fault diagnosis and troubleshooting;
- Fault prognosis and predictive maintenance;
- Monitoring process health and equipment health;
- Integration of statistical process control and engineering process control;
- Monitoring multistage and/or distributed processes;
- Monitoring the supply chain;
- Handling stationary and nonstationary dynamics;
- Monitoring for cybersecurity;
- Applications in health.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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