



Advanced Process Monitoring for Industry 4.0

Guest Editors:

Dr. Marco S. Reis

Department of Chemical
Engineering, University of
Coimbra, Polo II, Rua Sílvia Lima,
3030-790 Coimbra, Portugal

Prof. Dr. Furong Gao

Department of Chemical and
Biological Engineering, Hong
Kong University of Science and
Technology, Clear Water Bay,
Kowloon, Hong Kong, China

Deadline for manuscript
submissions:

closed (25 June 2021)

Message from the Guest Editors

Dear Colleagues,

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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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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Processes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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