

Special Session on

**“Advances in Data-Driven Process Monitoring and Control for Complex
Industrial Systems”**

Organized by

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Call for Papers

Driven by the rapid advancements in electronics, information and communication technology, disruptive changes are taking place in the industrial environment where intelligent components and devices are implemented and networked, and real-time supervision and control systems are running in parallel. This challenge scientists and engineers to develop advanced process monitoring and control methodologies, using offline stored, or online data to solve optimal process monitoring and control issues. This Special Session is to provide a forum for researchers and industrial engineers to exchange their latest results on data-driven process monitoring and control techniques, and to discuss the vital issues, challenges and possible future trends in modern large-scale industrial systems.

Topics of interest include, but are not limited to:

- Data-driven process monitoring techniques.
- Model-free or data-driven control techniques.
- Data-driven performance evaluation and diagnosis.
- Machine learning based performance optimization.
- Data-driven distributed designs.
- Real-time implementation and industrial applications.