2022 IEEE International Conference on Industrial Informatics (INDIN'22)

Special Session/ Organized Session on

Real-time Monitoring, Diagnosis, Prognosis and Tolerant Control for Industrial Systems

organized by

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Call for Papers

Industrial systems, such as aero engine, power network, chemical automation process, wind turbine systems, and so forth, are safety-critical systems. Therefore, there is an ever-increasing demand to provide a high-level system reliability and safety for practical engineering systems by implementing real-time monitoring, fault diagnosis, prognosis and fault tolerant control and health management. This special session aims to provide a platform for the researchers and participants from both academic community and industrial sectors to report recent research and application progress in the field of condition monitoring, fault diagnosis, fault prognosis, fault tolerant control and their applications.

Topics of interest include, but are not limited to:

- Machine-learning based monitoring and fault diagnosis
- Signal-based monitoring and fault diagnosis
- Model-based monitoring and fault diagnosis
- Prognosis methods and remaining use life prediction
- Digital-twin based fault diagnosis and prognosis
- Resilience of safety-critical systems
- Health monitoring and management for industrial systems

- Real-time implementation of diagnosis, prognosis and tolerant control in engineering applications

Submissions Procedure and Deadlines: All the instructions for paper submission and deadlines are included in the conference website **https://2022.ieee-indin.org/**