

2020 IEEE International Conference on Industrial Informatics
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Special Session on
“Big Data Opportunities: System Health Monitoring and
Management”

organized by

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Call for Papers

Theme:

The concept of system is generally defined as ‘an organized set of detailed methods, procedures and routines that are created to carry out a specific activity or solve a specific problem’, and that has been successfully applied to many domains, ranging from mechanical systems to public health systems. System health monitoring and management (SHMM) refers to the framework of continuous surveillance, analysis and interpretation of related data for system maintenance, management and strategic planning. This framework is essential to ensure that an entire system is stable and in control. A fundamental problem in SHMM is to study how to take advantage of correlated active and passive data to help prediction and forecasting, monitoring and surveillance, fault detection and diagnostics, engineering management, supply chain management, and many more. This special session aims to provide a platform to report advances in system health monitoring and management, discuss its relationship with other disciplines, and present its several applications to complex systems.

Topics of interest include, but are not limited to:

- Intelligent operation and maintenance and big data analysis
- Prognostics and health management
- Statistical learning, machine learning and data mining
- Condition monitoring and fault diagnosis
- Deep learning
- Non-destructive testing
- Signal processing
- Dynamics
- Engineering management
- Supply chain management

Submissions Procedure: All the instructions for paper submission are included in the conference website <https://indin2020.medmeeting.org/en>

Fast track to transactions: INDIN 2020 presents a unique chance of fast-tracking best papers to IEEE Transactions on Industrial Informatics (TII). Authors intended to use the fast track shall submit papers in the form following the transactions requirements: length up to 8 pages, double-column IEEE format, without authors’ names and affiliations. If the paper is accepted and recommended for the transactions’ submission, the authors will be asked to:

- 1) Revise the paper according to the reviewers' comments and submit it to the TII with attached point by point summary of revisions. The paper will be then subject to double blind review process of TII.

- 2) Prepare a shortened, 4 page long version for the INDIN proceedings and submit it by the 'final manuscripts due' deadline of INDIN 2020. This version shall include authors names and affiliations as per the usual INDIN template.

Deadlines:

Deadline for submission of papers:	March 07, 2020
Notification of acceptance of papers:	April 18, 2020
Final manuscripts due:	May 09, 2020