

2020 IEEE International Conference on Industrial Informatics
July 12-15, Guangzhou, China

Special Session on
“Sensing-Communication-Control Orchestrated Technologies
for Industrial Cyber-Physical Systems”

organized by

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Call for Papers

Theme:

Industrial cyber-physical systems (ICPS) are heterogeneous systems consisting of networked sensors, actuators and controllers, which can facilitate smart manufacturing and human-machine cooperation. Due to the increasing number of machines, data, and network traffic, ICPS become multi-dimensional dynamic systems which are difficult to meet the timing requirement and service guarantee in industrial control. Facing these challenges, several new technologies, such as distributed sensing, adaptive communication and cooperative control, have emerged to form a Sensing-Communication-Control orchestrated framework to improve the performance of ICPS. This special session aims to provide a platform for the researchers to present their most recent works about Sensing-Communication-Control orchestrated technologies for ICPS, and discuss further development and cooperation.

Topics of interest include, but are not limited to:

- Distributed sensing for industrial cyber-physical systems (ICPS)
- Indoor localization for mobile human or robots in ICPS
- Adaptive communication and networking for ICPS
- Time sensitive networking for ICPS
- Energy efficient networking for ICPS
- Cooperative control based on ICPS
- Human machine interaction based on ICPS

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