

# IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS INDIN'16

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**Special Session on**

## **“Distributed Data Processing with Smart Sensors”**

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## **Call for Paper**

Theme: Automation is fast reaching its next generation with the developments of smart sensors and artificial intelligence technologies. Therefore, automation needs to be further developed to cope with the additional sophisticated capabilities resulting in highly complicated controllers. Complex central controllers challenge the maintainability and robustness of systems. However, development of smart sensors allows the distribution of controllers to the sensing points which leads to a simpler hierarchal control.

This special session aims to discuss the latest developments of smart sensors and the use of artificial intelligence in industrial automation systems.

Topics of interest include, but are not limited to:

- Concepts and architectures for industrial smart sensors
- Architectures for distributed control systems with smart sensors
- Concepts and architectures for hierarchal control systems with smart sensors
- Smart sensors for structural health monitoring.
- Smart sensors for condition monitoring
- Industrial sensing with artificial intelligence
- Industrial automation with artificial intelligence

- Applications of smart sensors in industrial automation
- Distributed information processing for industrial automation
- Smart industrial sensor data processing technologies