2019 IEEE/SICE
International Symposium on System Integration（SII2019）

Sorbonne Université, Paris, France　　January 14-16, 2019

Special Session on

“Informatics Analysis and Applications of Smart Manufacturing and Supply Chain”

organized by

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Abstract of proposed special session:

Smart manufacturing is with the goal of optimizing concept generation, production, and product transaction with supply chain. Informatics Analysis is the kernel of smart manufacturing to support the auto-configuration and analytics framework for detecting the abnormality and simulating the production process based on the omni-manufacturing informatics. Tightly integrated the sensor-based communication with automated hardware systems to provide the capability of the smart system, information analytics aims to monitor and analyze the multi-dimensional data, and further optimizing the process under insight or detected features from big data in manufacturing.

Brief description of the area of interest with special focus on why we should believe this is an interesting and significant topic?

This special session focuses on research regarding the informatics process, data handling, data analytics, data modelling, data presentation, and practical application for smart manufacturing.

Topics of interest include, but are not limited to:

1. Manufacturing data communication
2. Signal process techniques of manufacturing data
3. Information technology system for smart manufacturing
4. Data processing of manufacturing data
5. Data analytics on supply chain data
6. Application of manufacturing CPS system

Submissions Procedure: All the instructions for paper submission are included in the conference website http://www.sii2019.org . A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics subjects to further rounds of review