Special Issue

Soft Sensors in the Intelligent Process Industry

Message from the Guest Editors

Soft-sensors are inferential data models that use easy-to-measure data (from physical sensors) to predict difficult-to-measure variables online. These difficult-to-measure variables are commonly associated with the quality of the process and often cannot be automatically measured at all or can only be measured at high costs, sporadically, or with high delays. Soft-sensors benefit many industrial processes, enabling the online monitoring of process quality, increasing performance, and positively impacting process sustainability. At the same time, soft-sensors pose many specific challenges in all design steps and due to the nature of industrial data. These challenges have led to increased heterogeneous modeling strategies for soft sensors in the last few years. This special session aims to connect the researchers who work with soft-sensors, to share their recent advances, address innovative solutions, paradigms, and emerging issues. Also, there is a specific scope for soft sensor applications, intending to increase the community's visibility and share potential benefits of adopting soft-sensor in the process industry.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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