# **Special Issue**

## Industrial Soft-Sensing Technology Based on Data-Driven and Artificial Intelligence Technologies

## Message from the Guest Editors

The advent of data-driven and artificial intelligence (AI) technologies has revolutionized the landscape of industrial soft-sensing, offering unprecedented opportunities for enhancing process monitoring, control, and optimization. Traditional hard-sensing technologies often face limitations in terms of cost, installation complexity, and real-time data acquisition. In contrast, soft-sensing technologies leverage data analytics and Al algorithms to infer critical process variables, providing a cost-effective and efficient alternative. By integrating data-driven approaches and AI, industrial soft-sensing can achieve higher accuracy, adaptability, and robustness, thereby significantly improving the overall performance and reliability of industrial systems. This Special Issue aims to explore the latest advancements and applications of data-driven and Albased soft-sensing technologies in various industrial sectors, with a focus on promoting innovative solutions that drive efficiency, sustainability, and intelligent automation.

#### **Guest Editors**

Prof. Dr. Sheng Du Prof. Dr. Li Jin Dr. Zixin Huang Dr. Pan Yu

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### Editor-in-Chief

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