

## Special Issue

# Intelligent Control and Digital Twins for Industry 4.0

### Message from the Guest Editor

An important concept which forms a part of Industry 4.0 is the digital twin—a digital representation of real-life systems and phenomena. An intrinsic part of a digital twin is data. In industry, massive amounts of data can be collected through sensing technology that describe process dynamics, related process trends, etc. Digital twins allow putting these data to beneficial use through the application of advanced modeling techniques resulting in accurate process descriptions that can then be used to design intelligent control systems ensuring optimal performance and energy efficiency of industrial systems. Some subtopics may include - Modeling, analysis, and control of complex industrial processes; - Applications of digital twins in Industry 4.0; - Sensing technologies for digital twins;

- Artificial intelligence and machine-learning-based applications for industrial processes.

- Industry 4.0
- machine learning
- artificial intelligence
- computational intelligence
- digital twin
- computer vision
- industrial application
- intelligent control system
- communications and signal processing
- Internet of Things

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2023)



## Sensors

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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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