Special Issue

Smart Sensors and Sensing Technology in the Water and Wastewater Treatment Industries

Message from the Guest Editor

The integration of smart sensors and sensing technology into the water and wastewater treatment industries has opened up new opportunities for the application of AI technology. The real-time data collected by these sensors can be analyzed using AI algorithms, which allow researchers to identify patterns and anomalies, optimize processes, and predict maintenance needs. One of the key advantages of using AI in conjunction with smart sensors is the ability to create predictive models that can anticipate problems before they occur. AI can also be used to optimize treatment processes by analyzing data from smart sensors in real time. In addition to these operational benefits, AI can also help researchers to improve the accuracy of water quality testing. AI algorithms can identify and correct errors in data, ensuring that accurate information is used to make important decisions about water quality. Overall, the integration of smart sensors and sensing technology in the water and wastewater treatment industries, along with the use of AI, is helping to improve process efficiency, reduce costs, and ensure the delivery of high-quality water to communities around the world.

Guest Editor

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Message from the Editor-in-Chief

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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