Special Issue

Machine Learning Applied in Wastewater Treatment

Message from the Guest Editors

Machine learning techniques can be applied in wastewater treatment to improve the efficiency, reliability, and cost effectiveness of the treatment process. Here are some ways in which machine learning can be applied in wastewater treatment:

- ***Prediction of Wastewater Characteristics:*** Machine learning algorithms can be used to predict the characteristics of incoming wastewater, such as its flow rate, chemical oxygen demand (COD), biological oxygen demand (BOD), and total suspended solids (TSS).
- ***Optimization of Treatment Process:*** Machine learning algorithms can be used to optimize the treatment process by adjusting the dosage of chemicals, aeration rate, and other parameters.
- ***Monitoring and Control of Treatment Plant:*** Machine learning algorithms can be used to monitor and control the treatment plant's operations in real time.

By analyzing large amounts of data and providing real-time insights, machine learning algorithms can help operators make better decisions, optimize the treatment process, and reduce costs.

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