AI and Machine Learning towards Circular and Sustainable Industry

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Message from the Guest Editors

Dear Colleagues,

Industries are heavily investing in new digital technologies such as AI, machine learning, and big data analysis, aiming for higher efficiency and new business opportunities. AI is expected to radically change the way companies operate and generate value. For example, in the manufacturing industry, AI creates a lot of opportunities for companies, such as preventive and predictive maintenance, identification of defects in the manufacturing process, demand and forecasting tools or inventory planning. These smart and connected digitalized machines and solutions are expected to result in a higher efficiency of resources and equipment as well as enable cost reductions by decreasing energy consumption, lowering scrap rates, and diminishing production downtime. Despite the positive economic effect, these technologies have a huge potential to contribute to sustainability. However, sustainability benefits are seldom the focus of AI initiatives, and they are very hard to measure on a holistic perspective.

More details at:

https://www.mdpi.com/journal/sustainability/special_issues/AI_machine_learning_circular_sus

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Special Issue

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Message from the Editor-in-Chief

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