



Artificial Intelligence's Contribution to the Circular Economy in the Transition to Industry 5.0 via Industry 4.0

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Message from the Guest Editor

Artificial intelligence (AI) emerges as a promising catalyst for reshaping how humans and societies view sustainability. This Special Issue aims to explore the potential of AI to enable the circular economy in the transition to Industry 5.0 via Industry 4.0. Industry 5.0 has been coined to describe the creation of a hyperconnected, data-driven industrial environment with an emphasis on sustainable development. Industry 5.0 is characterized by the integration of sustainability, resilience, and human-centric AI architecture into industrial value creation. This Special Issue is envisioned to showcase the state-of-the-art research on AI's contribution to the circular economy in the transition to Industry 5.0 via Industry 4.0. To this end, this Special Issue invites empirical research articles and theoretical review papers that explore the intersection between two emerging megatrends: AI and circular economy. More specifically, authors are encouraged to submit their research investigating the potential of transformative AI technologies and machine learning algorithms to contribute to the circular economy.





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