

Special Issue

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

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.

Guest Editor

Dr. Seunga Venus Jin

Artificial Intelligence and Media Lab (AIM-LAB), Communication Program, Northwestern University in Qatar, Education City, Doha P. O. Box 34102, Qatar

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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