



Research on Sustainability and Artificial Intelligence

Guest Editor:

Prof. Dr. Yudong Zhang

School of Computing and
Mathematical Sciences,
University of Leicester, Leicester
LE1 7RH, UK

Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editor

This problem-solving oriented Special Issue will cover a broad range of topics, applying the latest and emerging theoretical and technical advancements of artificial intelligence, particularly deep learning methods, to various realistic sustainability problems.

Topics may include, but are not limited to applying the following AI methods:

- Traditional AI and big data analytic methods
- Theoretical understanding of deep learning
- Transfer learning, disentangling task transfer learning, and multi-task learning
- Improving on the computation of a deep network; exploiting parallel computation techniques and GPU programming
- Optimization by deep neural networks
- Design of new loss functions, design of new activation functions, design of new layers
- Explainable AI (XAI) and visualization methods
- New model or improved model of convolutional neural network

Prof. Yu-Dong Zhang

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *Sustainability* publishes original research articles, review 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)