

## Special Issue

# Research on Sustainability and Artificial Intelligence

### 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
- Improvising 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

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### Guest Editor

Prof. Dr. Yudong Zhang

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### Deadline for manuscript submissions

closed (31 December 2020)



## Sustainability

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
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