



Sustainable Education Technologies in Big Data and Artificial Intelligence Era

Guest Editors:

Prof. Dr. Haoran Xie

Prof. Dr. Gary Cheng

Prof. Dr. Gwo-Jen Hwang

Prof. Dr. Morris JONG Siu-yung

Deadline for manuscript
submissions:

closed (7 July 2023)

Message from the Guest Editors

Dear Colleagues,

With the rapid development of AI and big data in recent years, a huge number of applications have been employed in educational contexts. Specifically, adaptive/personalized learning has been facilitated by recommendation models based on deep neural networks; affective learning is further explored based on emotion detection techniques according to bio-signal data sources; classroom management or instant feedback is supported by face recognition techniques. The employment of big data from mobile devices and learning logs enables AI models to have an in-depth understanding of learning behaviors and patterns. The existing educational models are transformed by these emerging techniques. It is critical for academic communities to address a research issue: how to sustain the innovative educational models that employ AI and big data techniques. There are many alternative solutions: establishing communities of practice for AI and big data innovations; proposing easily employed educational models based on AI and big data; developing novel teacher training framework for introducing AI and big data skills. This SI aims to provide some potential directions and solutions.





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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)