



Sustainable Education Technologies in Big Data and Artificial Intelligence Era

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Deadline for manuscript
submissions:

7 July 2022

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.





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