

Special Issue

Sustainable Manufacturing Systems Using Big Data

Message from the Guest Editors

Currently, many new technologies, such as energy-efficient cloud computing, energy internet, big data and knowledge management, have been integrated and widely applied to facilitate many national advanced design and manufacturing strategies. One of their common aims is to achieve smart design and manufacture, which is of great significance for sustainable development. However, without data support, and the support of data science and technology, “smart” cannot be achieved. However, the type of design and manufacturing that big data will generate in the entire lifecycle of a product is still unclear. Furthermore, deciding how to collect the useful data, as well as the extraction and utilization of useful information from such huge and dynamic databases for “big data”, is frightening. This has motivated researchers and practitioners to explore new methods and technologies for industrial applications of big data in sustainable design and manufacture.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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