Special Issue

Enabling Technologies and Methods for Sustainable Remanufacturing System

Message from the Guest Editors

With the introduction of Industry 4.0 and the Chinese dual carbon goal, sustainable manufacturing has become the focus of widespread global attention. Remanufacturing is an effective way to achieve energy saving and emission reduction in manufacturing systems, and remanufacturing systems (RS) include many components, such as design for remanufacturing (DfRem), remanufacturing process planning (RPP), logistics and reverse supply chain, etc. However, remanufacturing systems will also consume large amounts of energy and materials, as well as produce significant carbon emissions. Therefore, it is necessary to apply the advanced technologies and methods to optimize and improve the DfRem, remanufacturing process and logistics, so as to improve the sustainability of the remanufacturing system, and this mission can be better achieved through the Internet-of-Things (IoT) and artificial intelligence (AI) for optimization and control in remanufacturing systems. This research topic focuses on the advanced enabling technologies and methods for sustainable remanufacturing system.

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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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