



## Assessing New Trends in Sustainable and Smart Manufacturing

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### Message from the Guest Editors

Operation technology, machinery, manufacturing processes and systems play a very important role in industry. Industry 4.0 is contributing significantly towards the integration of such technologies and systems in smart and sustainable manufacturing, and towards achieving the Sustainable Development Goals. Circular and carbon neutral economies require smart production systems which can be assessed and monitored throughout their whole lifecycle and across the entire supply chain.

Typically, research tends to focus on a number of parameters at a time. Studies generally lack comprehensive assessments of how proposed systems and processes will impact the environmental and financial pillars throughout their whole lifetime, as well as how they will interact with internal and external social stakeholders. This Special Issue aims to explore the impacts of smart production systems on the three pillars of sustainability through one or more of the following areas:

- Circular and/or carbon neutral smart manufacturing processes/systems
- Techno-economic assessments
- Life cycle assessments
- Life cycle cost assessments
- Social life cycle assessments
- Resource assessments





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## Message from the Editor-in-Chief

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There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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