Sustainable and Agile Manufacturing in the Era of Industry 4.0: Application of Simulation, Optimization, Lean, and Emerging Digital Technologies

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Message from the Guest Editor

In the Industry 4.0 era, the manufacturing industry is continuously challenged by the market to improve product quality, increase production efficiency, ensure safety, and enhance sustainability while maintaining agility in manufacturing products and satisfying customer demand. Digital technologies such as smart wearables, or augmented/virtual/mixed reality are undoubtedly the driving force behind manufacturing agility through making the right information accessible at the right time. Moreover, informed decision making as well as smart production planning and scheduling drive manufacturing agility in the Industry 4.0 context. An intelligent production planning, scheduling, and control system have an incredibly important role in collecting, processing, and inferring the industrial data for making informed and right decisions instantaneously. The efficient, flexible, and reliable logistics system is also an indispensable part of sustainable and agile manufacturing.

The main aim of this Special Issue is to publish a collection of high-quality research papers on sustainable and agile manufacturing, including both review and original research articles.

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Special Issue

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Message from the Editor-in-Chief

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