



Product Design and Development Using Computational and Numerical Modeling

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Message from the Guest Editors

This Special Issue aims to share the latest research, theories, and practices in product design and manufacturing technology in order to improve industrial performance. It will focus on how traditional and more sophisticated modeling methods can work together and how virtual manufacturing processes can be a source of new information.

Potential topics include but are not limited to:

- Product design and development for circular business models;
- Design for manufacturable hollow structures, cellular structures, multiscale structures, multimaterial structures, and composite structures;
- Modeling, simulation, and control of manufacturing system;
- Design optimization methods such as topology optimization, size optimization, and shape optimization to support advanced manufacturing;
- Design for heterogeneous materials systems using hybrid manufacturing;
- Sustainable product design and development in small and medium-sized enterprises (SMEs);
- Sustainability in early product design and development;
- Democratization, fairness, inclusion, bias, and ethics in emerging PDD technologies and methods;
- Security, privacy, and intellectual property concerns in PDD.

Special Issue



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Message from the Editor-in-Chief

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