Special Issue

Progress in Digital Twin Integration for Smart Machining

Message from the Guest Editor

The manufacturing industry is confronted with increasing demands of digitalization and ever-increasing global competitiveness. Successful development and implementation of digital twin for machining processes as key enablers for quality assurance require close collaboration between the physical world and virtual world, realistic digitization, and model reliability of the virtual representation. This Special Issue aims to bring researchers together concerning the latest advances and progress in the integration of digital models, digital shadows, or digital twin using physics-based models, surrogate models, and supervised machine learning methods. This Special Issue invites the submission of high-quality research articles related to Progress in Digital Twin Integration for Smart Machining, including but not limited to:

- Digital representation of machining process including mathematical, simulation models, etc.;
- Discretized force model, cutting tool discretization;
- Dynamic force model, surface location error model;
- Digital shadow or digital twin;
- Digital models with one-way or two-way automated data flow between physical and digital machining.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (*JMMP*)(ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP.*

Editor-in-Chief

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