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Advances in Ultra-Precision Machining Technology and Applications, Volume II

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Message from the Guest Editors

Dear Colleagues,

Ultra-precision machining technology has been widely used in the manufacture of many mission-critical components for various industrial areas, such as advanced photonics automotive. optics, aerospace. telecommunications. biomedical. and energy environmental, etc. Today, ultra-precision machining technology is capable of machining workpieces with submicrometer form accuracy and nanometric surface roughness with a high degree of geometrical complexity. Due to the increasing degree of geometrical complexity, high-precision requirements and the evolution of advanced materials of the workpiece being machined lead to numerous research challenges in different fields, including ultra-precision machining technologies, novel machining processes, cutting mechanics, surface generation mechanisms, novel machine design, machine metrology, accurate control of the machining process through modeling and simulation of ultra-precision machining processes, as well as advanced applications for functional uses. This Special Issue aims to provide a collection of the latest research results and findings in recent advances in ultra-precision machining technology and applications.













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Editor-in-Chief

Message from the Editor-in-Chief

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