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

Guest Editors:

Prof. Dr. Benny C. F. Cheung

State Key Laboratory of Ultra-Precision Machining Technology, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong, China

Dr. Chenyang Zhao

School of Mechanical Engineering and Automation, Harbin Institute of Technology (Shenzhen), Shenzhen 518055, China

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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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Micromachines Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/micromachines micromachines@mdpi.com X@micromach_mdpi