Preface

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After extensive planning, the International Society for Nanomanufacturing (ISNM), Springer Nature and Tianjin University are very proud to launch the co-published academic journal, *Nanomanufacturing and Metrology* (N&M) on March 1st, 2018. I consider it a great honor to write this editorial marking the birth of the journal.

My career in manufacturing research started in 1982 when I graduated from university. I witnessed how the global trends toward nano accuracy, nano and atomic scale in manufacturing have opened new fields in science and technology. Nanomanufacturing has proved to be a cornerstone for technological innovation now as well as for future generations. On the other hand, nanomanufacturing is strongly supported and related to metrology. Together with the Executive Editor, my close partner Professor Wei Gao, I have had numerous discussions with Dr. Mengchu Huang on establishing a platform to promote this emerging field. The need for a bridge between these two important disciplines supporting the nano and atomic science and technology has led to the launch of N&M, which will provide an international forum for sharing information on nanomanufacturing and metrology.

N&M is the official journal of the ISNM, which was initiated in 2006 and subsequently launched in 2008 by a group of leading scientists and engineers from around the globe in order to advance nanomanufacturing technology to better serve the fast growing community. Springer Nature is one of the largest publishers worldwide, with more than 2900 journals and 200,000 books. Founded in 1895 as Peiyang University, Tianjin University is the oldest institute of modern higher education in China. The Centre of MicroNano Manufacturing Technology (MNMT) established at Tianjin University in 2005 has become one of the leading research organizations in micro/nano

manufacturing around the world. The ISNM, Springer Nature, and Tianjin University have worked together to create this promising journal.

The distinguished editorial board ensures that the journal maintains the highest scientific standards and rapid peer-review. I would like to take this opportunity to express my heartfelt gratitude to our partners, academic colleagues, and all the staff for their tireless efforts and support in establishing this journal.

As the editor-in-chief and on behalf of the editorial board, I formally invite you to submit your research findings to this new journal, which will be distributed to all laboratories in nanomanufacturing and metrology. For detailed information please refer to the journal website: <http://www.springer.com/engineering/journal/41871>.

N&M will publish top-quality, peer-reviewed original papers, rapid communications, timely review papers, technical reports, and case studies. Submissions will be welcome in the fields including, but not limited to, manufacturing fundamentals; machining, forming, plasma, and electrochemical processes; additive manufacturing; metrology; manufacturing systems; system control and design; equipment and instrumentation; laser systems; process chains; modeling and simulation; machine tools; robotics; machine tool errors and compensation.

The synergy of the disciplines of nanomanufacturing and metrology will have a significant impact on the emerging nano and atomic science and technology as well as on our daily life, and I believe that N&M can play a critical role in this. Sincere thanks to current and prospective authors, readers and reviewers for your valuable support and future contributions.

Wishing *Nanomanufacturing and Metrology* every success!

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