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Front Matter: Volume 11343

, "Front Matter: Volume 11343," Proc. SPIE 11343, Ninth International Symposium on Precision Mechanical Measurements, 1134301 (14 November 2019); doi: 10.1117/12.2560514



Event: International Symposium on Precision Mechanical Measurements 2019, 2019, Chongqing, China

PROCEEDINGS OF SPIE

Ninth International Symposium on Precision Mechanical Measurements

Liandong Yu *Editor*

18–21 October 2019 Chongqing, China

Organized by Hefei University of Technology (China)

Co-organized by
Chongaing University of Technology (China)
Beijing Information Science and Technology University (China)
Harbin Institute of Technology (China)
Chongaing Youth Federation for Science and Technology (China)

Sponsored by International Committee on Measurements and Instrumentation (Hong Kong, China) National Natural Science Foundation of China (China) China Instrument and Control Society (China)

Published by SPIF

Volume 11343

Proceedings of SPIE 0277-786X, V. 11343

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Ninth International Symposium on Precision Mechanical Measurements, edited by Liandong Yu, Proc. of SPIE Vol. 11343, 1134301 ⋅ © 2019 SPIE ⋅ CCC code: 0277-786X/19/\$21 ⋅ doi: 10.1117/12.2560514

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Author(s), "Title of Paper," in *Ninth International Symposium on Precision Mechanical Measurements*, edited by Liandong Yu, Proceedings of SPIE Vol. 11343 (SPIE, Bellingham, WA, 2019) Seven-digit Article CID Number.

ISSN: 0277-786X

ISSN: 1996-756X (electronic)

ISBN: 9781510634589

ISBN: 9781510634596 (electronic)

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445

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Introduction

Precision is the basis of manufacturing. With the development of science and technology and the improvement of requirements in manufacturing, precision engineering is becoming highly multidisciplinary covering mechanical, electrical, optical, control, and information disciplines. New methods, new technology, and new equipment for measuring are developing faster as well as innovative manufacturing. Micro and nano metrology are becoming practiced, and the requirement of traditional measurements including length, angular, coordination, vibration, and other physics parameters are calling for new technology. With this as the background, we have successfully held eight sessions of the International Symposium on Precision Mechanical Measurement (ISPMM). The subject and the major topics included length and angular measurement, coordinate measurement technology, micro-nano metrology and MEMS, sensor technology and application, online automatic measurement and control vibration, stress and thermal measurement, opto-electronic measurement and image processing, measurement signal analysis and processing, precision theory and uncertainty evaluation, quality engineering theory and technology, and so on. The 9th ISPMM conference was held 18-21 October in Chongaing, China. More than 150 abstracts were submitted to our conference, and more than 160 registered delegates participated in the conference.