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Introduction

Precision is the basis of manufacturing. With the development of science and technology and the improvement of the requirements in manufacturing, precision engineering is becoming highly multidisciplinary, which includes the mechanical, electrical, optical, control, and information disciplines. The new methods, new technology, and new equipment for measurement are developing faster along with the development of innovative manufacturing. The micro and nano metrology becomes practice and the requirement of traditional measurements including length, angular, coordinate, vibration, and other physics parameters are calling for the new technology. Under this background, we have successfully held six sessions of 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 7th ISPMM conference will be held in Xia'men on August 8-12, and the theme of the conference is "New century, new technology and new development". More than 150 manuscripts have been submitted to our conference, and over 200 registered delegates will participate in the conference.

Yetai Fei