

Preface

The abrasive process is one of the most important manufacturing technologies in precision engineering. It is becoming more important each year due to the increased requirements of the machining. The numerous factors and variables associated with the application of abrasive tools deem this process amongst the most complicated.

Advances in Abrasive Technology, volume XVII, contains selected papers presented at the 17th International Symposium on Advances in Abrasive Technology (ISAAT2014) held in Hawaii, USA, September 22-25, 2014. ISAAT aims to put forward new developments and innovations in abrasive technology as well as related technologies. At this symposium, a total of 138 papers were personated orally or via poster sessions, and are published in this volume. The published papers are global selections, chosen through a rigorous paper review process. Topics include grinding, lapping, polishing, cutting and micro/nano-fabrication, as well as other novel technologies and advanced studies relevant to abrasive technology and precision manufacturing.

I believe that this book provides a valuable reference for professionals in the precision manufacturing field who wish to keep abreast with state-of-the-art development in abrasive technology and who are interested in furthering their understanding in the fundamentals of this discipline.

I would like to express my sincere appreciation to the authors for their contributions to this book, as well as the editors and paper reviewers for their dedication to creating such high quality work in this volume. I would also like to extend my heartfelt thanks to the members of the Organizing Committee for their help in putting the volume together.

Prof. Akinori Yui
Symposium Chairman
June 2014

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