Preface

The International Conference on Analysis, Control and Removal of Burrs, held at the University of Kaiserslautern, Germany, marks the end of the three-year cycle of the CIRP working group on Burrs. During these years, researchers as well as experts from industry have contributed and gathered knowledge on research and industrial practice in the area of burrs, edge conditions and part cleanliness. A CIRP round robin has been carried out with participants in many countries and three continents to compare available methods on burr measurement.

This conference now brings together the members of the working group as well as experts from industry and academia from all over the world to discuss the state of the art in research as well as industrial applications in the area of burrs in one focused conference with a special workshop character. The conference shall provide a forum for the intense exchange of concepts and methods, the dissemination of technological breakthroughs, and for discussions of future directions of research and development.

The conference program covers a broad spectrum of topics ranging from standards for burr description and classification and the mechanics of burr formation over modeling and simulation of the underlying mechanisms to burr control and deburring strategies. Our special appreciation goes to the invited keynote speakers: Prof. Dornfeld from UC Berkeley, USA, one of the leading experts in the field, will give an overview of the state of research in analysis, control and removal of burrs. Prof. Biermann from TU Dortmund, Germany, will draw on his scientific and industrial experience to present burr reduction and control strategies. Mr. Berger from Daimler, Germany, and Dr. Martinsen from RTIM, Norway, will give an insight into the industrial importance of burr issues and part cleanliness.

Our special gratitude goes to the International Program Committee and Local Organizing Committee members for their wonderful efforts in reviewing papers, handling papers, and preparing the technical and social program. Without their effort and dedication the conference would not have been possible. We would also like to extend our sincere appreciation to the paper authors for their excellent contributions to the conference. The authors who are willing to share their most recent findings in basic research as well as in industrial application, both in presentations and in many discussions in and around the technical sessions, represent the dominant factor in the success of this conference. Finally, the organizations and companies who contributed to the financial support of the conference, even in financially difficult times, deserve our great respect for their contribution. We would also like to thank the companies who opened their facilities for the industrial tour. They allowed giving this conference the final touch of strong interaction between research institutions and industry.
On behalf of the organizing committee, I wish all of you a successful conference, with exciting technical sessions, fruitful discussions and a perfect get together of our research community.

Jan C. Aurich
Kaiserslautern, Germany

David Dornfeld
Berkeley, CA, USA
Burrs - Analysis, Control and Removal
Proceedings of the CIRP International Conference on
Burrs, 2nd-3rd April, 2009, University of Kaiserslautern, Germany
Aurich, J.C.; Dornfeld, D. (Eds.)
2010, XVIII, 254 p., Hardcover
ISBN: 978-3-642-00567-1