

Proceedings of the 11th CIRP Conference on Modeling of Machining Operations

September 16-18, 2008

National Institute of Standards and Technology
Manufacturing Engineering Laboratory
Manufacturing Metrology Division
Gaithersburg, MD USA

Edited by
Jarred C. Heigel
Shawn P. Moylan
Robert W. Ivester

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FOREWORD

Though titled the “11th CIRP Conference on Modeling of Machining Operations,” this conference is a continuation of the ten previous installments of the “CIRP International Workshop on Modeling of Machining Operations” series and is the first to be labeled a conference. While the first workshop was held in Atlanta, Georgia, USA in 1998, the series has its origins in the Working Group on “Modeling of Machining Operations,” established in 1995 within the CIRP Scientific Technical Committee for Cutting [STC C]. The aim of this group continues to be the goal of the Workshop and Conference series: to stimulate the development of models capable of quantitatively predicting the performance of metal cutting operations better adapted to the needs of the metal cutting industry. We attempt to achieve this goal by bringing together international experts from industry and academia to present recent advances in the modeling of machining operations and to stimulate constructive discussion between model developers and users that will hopefully lead to better, more directed future research in the field. We believe that the outstanding scientific content of the papers and presentations provide significant advancements in the modeling of machining operations, and we encourage conference participants to both learn from these works and contribute to the dialog they produce.

The Editors

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- The CIRP—The International Academy for Production Engineering—for their sponsorship of the conference
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- The authors and the reviewers for their technical contributions as well as their cooperation with the editorial staff
- The organizers of the ten previous Workshops on Modeling of Machining Operations for helping to grow the community and providing guidance for the current conference.

Finally, we would like to thank the conference participants and keynote speakers for their enthusiasm and hard work to further the modeling community.

The Organizing Committee

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