Proceedings of the 19th International Meshing Roundtable

Suzanne Shontz (Ed.)

Proceedings of the 19th International Meshing Roundtable

Springer

Suzanne Shontz
Pennsylvania State University
343J IST Building
University Park, PA 16802
Tel.: 814-865-0193
E-mail: shontz@cse.psu.edu

ISBN 978-3-642-15413-3 e-ISBN 978-3-642-15414-0

DOI 10.1007/978-3-642-15414-0

Library of Congress Control Number: 2010935732

Typesetting: Data supplied by the authors

Production & Cover Design: Scientific Publishing Services Pvt. Ltd., Chennai, India

Printed on acid-free paper

9 8 7 6 5 4 3 2 1

springer.com

Preface

The papers in this volume were selected for presentation at the 19th International Meshing Roundtable (IMR), held October 3–6, 2010 in Chattanooga, Tennessee, USA. The conference was started by Sandia National Laboratories in 1992 as a small meeting of organizations striving to establish a common focus for research and development in the field of mesh generation. Now after 19 consecutive years, the International Meshing Roundtable has become recognized as an international focal point annually attended by researchers and developers from dozens of countries around the world.

The 19th International Meshing Roundtable consists of technical presentations from contributed papers, research notes, keynote and invited talks, short course presentations, and a poster session and competition. The Program Committee would like to express its appreciation to all who participate to make the IMR a successful and enriching experience.

The papers in these proceedings were selected by the Program Committee from among numerous submissions. Based on input from peer reviews, the committee selected these papers for their perceived quality, originality, and appropriateness to the theme of the International Meshing Roundtable. We would like to thank all who submitted papers. We would also like to thank the colleagues who provided reviews of the submitted papers. The names of the reviewers are acknowledged in the following pages.

We extend special thanks to Jacqueline Hunter for her time and effort to make the 19th IMR another outstanding conference.

August 2010 19th IMR Program Committee

Contents

Session 1A, Surface Meshing

Session 2A, Optimization

Session 6A, Adaptive

Session 6B, Applications