Guest editorial: 15th International Meshing Roundtable Special Issue

Philippe Pébay · Alan M. Shih

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Numerical geometry and mesh generation is a cross-cutting technology that greatly influences its downstream mesh-based computational technologies, such as computational fluid dynamics (CFD) and computational structural mechanics (CSM). However, this pre-processing step often is the most tedious and laborious one in the computational simulation cycle. Advances in core mesh generation algorithms have been steadily achieved throughout the past three decades. The popularity of unstructured meshes (tetrahedral, hexahedral, hybrid and polyhedral) facilitates the mesh generation step significantly. However, challenges remain in the CAD-to-mesh process.

The papers in this volume were selected from the papers at the 15th International Meshing Roundtable, held 17–20 September 2006 in Birmingham, Alabama, 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. It is now an annual conference attended by researchers and developers from dozens of countries around the world. Selected by peer reviewers based on their perceived quality, originality, and contributions to the geometry and mesh generation technology development, these papers are collected into this special issue of the *Journal of Engineers with Computers*.

As the editors of this special issue, we would like to express our sincere gratitude to the contributing authors, reviewers, and publishing staff for their efforts and contributions to make this possible.

Philippe Pébay and Alan M. Shih
Guest Editors

P. Pébay (✉) · A. M. Shih
Sandia National Laboratories, Albuquerque, NM, USA
e-mail: pppebay@sandia.gov