

Preface

This volume presents selected papers from the tenth International Conference on Spectral and High-Order Methods (ICOSAHOM'14) that was held in Salt Lake City, UT, USA during the week of June 23–27, 2014. These selected papers were refereed by members of the scientific committee of ICOSAHOM as well as by other leading scientists.

The first ICOSAHOM conference was held in Como, Italy, in 1989 and marked the beginning of an international conference series in Montpellier, France (1992); Houston, TX, USA (1995); Tel Aviv, Israel (1998); Uppsala, Sweden (2001); Providence, RI, USA (2004); Beijing, China (2007); Trondheim, Norway (2009); and Gammarth, Tunisia (2012).

ICOSAHOM has established itself as the main meeting place for researchers with interests in the theoretical, applied, and computational aspects of high-order methods for the numerical solution of partial differential equations.

With over 300 participants, ICOSAHOM'14 was the largest conference devoted to high-order methods to date. The program consisted of eight invited lectures spread out through the week, 19 mini-symposia hosting approximately 192 talks, and 80 contributed talks.

The content of this proceedings is organized as follows. First, contributions from the invited speakers are included, listed in alphabetical order according to the name of the invited speaker. The remainder of the volume consists of refereed selected papers highlighting the broad spectrum of topics presented at ICOSAHOM'14.

The success of the meeting was ensured through the generous financial support given by the US National Science Foundation, the US Office of Naval Research (under the guidance of Dr. Reza Malek-Madani), the US Air Force Office of Sponsored Research (under the guidance of Dr. Fariba Fahroo), the US Army Research Office (under the guidance of Dr. Mike Coyle and Dr. Joe Myers), and the SCI Institute at the University of Utah.

Special thanks goes to our local organizing committee Yekaterina Epshteyn, Anne Gelb, Rodrigo Platte, Rosie Renaut, and Dongbin Xiu. They did an amazing job organizing and executing the event. Individual thanks also goes to Mrs. Deb

Zemek and Mr. Nathan Galli. Deb and Nathan were the ‘on the ground’ individuals who kept everything moving smoothly.

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