

# Preface

This volume presents selected papers from the eleventh International Conference on Spectral and High-Order Methods (ICOSAHOM'16) that was held in Rio de Janeiro, RJ, Brazil, during the week of June 27th to July 1st, 2016. These selected papers were refereed by a member of 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, USA (1995); Tel Aviv, Israel (1998); Uppsala, Sweden (2001); Providence, USA (2004); Beijing, China (2007); Trondheim, Norway (2009); Gammarth, Tunisia (2012); and Salt Lake City, USA (2014).

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 about 200 participants, ICOSAHOM'16 took place in the Othon Palace Hotel at the Copacabana Beach. The program consisted of nine invited lectures spread out through the week, 16 mini-symposia, hosting approximately 155 talks, and 22 contributed talks.

The content of these proceedings is organized as follows. First, contributions from the invited speakers are included. The remainder of the volume consists of refereed selected papers highlighting the broad spectrum of topics presented at ICOSAHOM'16.

The success of the meeting was ensured through the financial support given by the University of Campinas (UNICAMP), Pontifical Catholic University of Rio de Janeiro (PUC-RJ), the Brazilian Research Council (CNPq), and the Coordination for the Improvement of Higher Education Personnel (CAPES).

Special thanks go to members of our local organizing committee Philippe Devloo, Alvaro Coutinho, and Saulo Pomponet de Oliveira. We would like also to thank Creactive Eventos, in special Alessandra Leitão and Michele Christinni, and Sócrates Duarte from SWGE for their invaluable help in the organization of the

conference. Thanks also to PhD students from UNICAMP and PUC-RJ who helped during the event.

Campinas, SP, Brazil  
Rio de Janeiro, RJ, Brazil  
Lausanne, Switzerland

Marco L. Bittencourt  
Ney A. Dumont  
Jan S. Hesthaven

Spectral and High Order Methods for Partial Differential  
Equations ICOSAHOM 2016

Selected Papers from the ICOSAHOM conference, June  
27-July 1, 2016, Rio de Janeiro, Brazil

Bittencourt, M.; Dumont, N.; Hesthaven, J.S. (Eds.)

2017, XI, 700 p. 214 illus., 163 illus. in color., Hardcover

ISBN: 978-3-319-65869-8