

Preface

The Sixth International Workshop on *Meshfree Methods for Partial Differential Equations* was held from October 4–6, 2011, in Bonn, Germany. One of the major goals of this workshop series was to bring together European, American and Asian researchers working in this exciting field of interdisciplinary research on a regular basis. To this end, Ivo Babuška, Ted Belytschko, Jiun-Shyan Chen, Michael Griebel, Wing Kam Liu, Marc Alexander Schweitzer and Harry Yserentant invited scientists from all over the world to Bonn to strengthen the mathematical understanding and analysis of meshfree discretizations, but also to promote the exchange of ideas on their implementation and application.

The workshop was again hosted by the Institut für Numerische Simulation at the Rheinische Friedrich-Wilhelms-Universität Bonn with the financial support of the Sonderforschungsbereich 611 *Singular Phenomena and Scaling in Mathematical Models*. Moreover, we would like to thank Christian Rieger who carried most of the load as the local organizer of this workshop.

This volume of LNCSE now comprises selected contributions of attendees of the workshop. Their content ranges from applied mathematics to physics and engineering which clearly indicates the maturity meshfree methods have reached in recent years. They are becoming more and more mainstream in many fields due to their flexibility and wide applicability.

Bonn and Stuttgart, Germany

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