
Preface

The Fifth International Workshop on *Meshfree Methods for Partial Differential Equations* was held from August 17 to August 19, 2009 in Bonn, Germany. One of the major goals of this workshop series is 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, Michael Griebel, Antonio Huerta, Wing Kam Liu, and Harry Yserentant invited scientist from all over the world to Bonn to strengthen the mathematical understanding and analysis of meshfree discretizations and 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* which is kindly acknowledged. Moreover we would like to thank Christian Rieger who carried most of the load as 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 areas of applications due to their flexibility and wide applicability.

Bonn,
July, 2010

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Meshfree Methods for Partial Differential Equations V

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2011, VIII, 270 p., Hardcover

ISBN: 978-3-642-16228-2