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Preface

In: Jan Chleboun and Petr Přikryl and Karel Segeth and Jakub Šístek (eds.): Programs and Algorithms of Numerical Mathematics, Proceedings of Seminar. Dolní Maxov, June 6-11, 2010. Institute of Mathematics AS CR, Prague, 2010. pp. 7.

Persistent URL: <http://dml.cz/dmlcz/702733>

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Preface

This book comprises peer-reviewed papers that originated from invited lectures and short communications presented at the 15th seminar Programs and Algorithms of Numerical Mathematics (PANM) held in Dolní Maxov, Czech Republic, June 6–11, 2010.

The seminar was organized by the Institute of Mathematics of the Academy of Sciences of the Czech Republic in cooperation with the Advanced Remedial Technologies and Processes Research Centre at the Technical University of Liberec. It continued the previous seminars on mathematical software and numerical methods held (biannually, with only one exception) in Alšovice, Bratříkov, Janov nad Nisou, Kořenov, Lázně Libverda, Dolní Maxov, and Prague in the period 1983–2008. The objective of this series of seminars is to provide a forum for presenting and discussing advanced topics in numerical analysis, new approaches to mathematical modeling, and single- or multi-processor applications of computational methods.

More than 60 participants from the field took part in the seminar, most of them from Czech universities and from institutes of the Academy of Sciences of the Czech Republic but also from the Netherlands, Slovakia, and the United States. The participation of a significant number of young scientists, PhD students, and also some undergraduate students is an established tradition of the PANM seminar; this year was no exception. We wish to believe that those, who took part in the PANM seminar for the first time, have found the atmosphere of the seminar friendly and working, and will join the PANM community.

The organizing committee consisted of Jan Chleboun, Petr Příklad, Karel Segeth, Jakub Šístek, and Tomáš Vejchodský. Mrs Hana Bílková kindly helped in preparing manuscripts for print.

All papers have been reproduced directly from materials submitted by the authors. In addition, an attempt has been made to unify the layout of all papers.

The editors and organizers wish to thank all the participants for their valuable contributions and, in particular, all the distinguished scientists who took a share in reviewing the submitted manuscripts.

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