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Preface

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## Preface

This book comprises papers that originated from the invited lectures, survey lectures, short communications, and posters presented at the 18th seminar Programs and Algorithms of Numerical Mathematics (PANM) held in Janov nad Nisou, Czech Republic, June 19–24, 2016. All the papers have been peer-reviewed.

The seminar was organized by the Institute of Mathematics of the Czech Academy of Sciences under the auspices of EU-MATHS-IN.cz, Czech Network for Mathematics in Industry. It continued the previous seminars on mathematical software and numerical methods held (biennially, with only one exception) in Alšovice, Bratřikov, Janov nad Nisou, Kořenov, Lázně Libverda, Dolní Maxov, and Prague in the period 1983–2014. The objective of this series of seminars is to provide a forum for presenting and discussing advanced theoretical as well as practical topics in numerical analysis, computer implementation of algorithms, new approaches to mathematical modeling, and single- or multi-processor applications of computational methods.

More than 50 participants from the field took part in the seminar, most of them from Czech universities and from institutes of the Czech Academy of Sciences, and also from abroad. The participation of a significant number of young scientists, PhD students, and also some undergraduate students is an established tradition of the PANM seminar and it was observed this year, too. We do believe that those, who took part in the PANM seminar for the first time, have found the milieu of the seminar friendly and stimulating, and are going to join the PANM community.

The organizing committee consisted of Jan Chleboun, Pavel Kůs, Petr Příklad, Karel Segeth, Jakub Šístek, and Tomáš Vejchodský. Ms 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 the papers. A photograph of the seminar participants in front of Achát (Agate) Hotel is included, too.

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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