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Preface

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## Preface

These proceedings contain peer-reviewed papers that are based on the invited lectures, survey lectures, short communications, and posters presented at the 19th seminar Programs and Algorithms of Numerical Mathematics (PANM) held in the International Center for Spiritual Rehabilitation, Hejnice, Czech Republic, June 24–29, 2018.

All papers have been reproduced directly from materials submitted by the authors. Naturally, an attempt has been made to unify the layout of the papers. A photograph of the seminar participants in front of the Baroque Pilgrimage Basilica of the Virgin Mary Visitation is included, too. The first church was established here, according to a legend, in 1211. Next to this original church, a Franciscan monastery (now the International Center for Spiritual Rehabilitation) was founded by count Francis Ferdinand Gallas in 1692. The new church was finished in 1725.

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, and with the financial support provided by the RSJ Foundation. It continued the previous seminars on mathematical software and numerical methods held (biennially, with only one exception) in Alšovice, Bratříkov, Janov nad Nisou, Kořenov, Lázně Libverda, Dolní Maxov, and Prague in the period 1983–2016. The objective of this series of seminars is to provide a forum for presenting and discussing advanced topics in numerical analysis, computer implementation of numerical algorithms, 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 Czech Academy of Sciences, several also from abroad. We appreciate the traditional participation of a number of young scientists, PhD students, and also some undergraduate students. We wish to believe that also 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, Pavel Kůs, Petr Příkryl, Miroslav Rozložník, Karel Segeth, Jakub Šístek, and Tomáš Vejchodský. Ms Hana Bílková kindly prepared manuscripts for the electronic version of the book and for print.

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

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