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Preface

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Preface

These proceedings contain peer-reviewed papers that are based on the invited lectures, short communications, and posters presented at the 21st seminar Programs and Algorithms of Numerical Mathematics (PANM) held in Merkur Hotel, Jablonec nad Nisou, Czech Republic, June 19–24, 2022.



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, Prague, and Hejnice in the period 1983–2020. 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.

The attendance, 70 participants, was the highest in the history of the seminar. Most of the participants came 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 conference photo is taken in front of the Merkur Hotel that hosted the seminar. Unexpected situation with the war and Ukrainian refugees forced the organizers to search for a new location quite shortly before the event. We are grateful that premises of the hotel allowed PANM21 to happen. We enjoyed Mšeno Reservoir, one of the attractions in Jablonec nad Nisou, and held on its bank a welcome drink (in Základna stall) and the traditional evening with a barbecue at Volt Restaurant and Brewery.

The organizing committee consisted of Jan Chleboun, Pavel Kůs, Jan Papež, Petr Přikryl, Miro 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 part in reviewing the submitted manuscripts.

Editors