

PREFACE

This volume contains papers contributed by the participants of the conference *Function Spaces XII* held at the Jagiellonian University in Kraków from 9th till 14th July 2018. The conference focused on new research topics associated with different aspects of the theory of function spaces, geometry of Banach spaces, operator theory on function spaces, interpolation theory, approximation theory and the theory of vector measures.

The International Conferences on Function Spaces have a 31 year tradition. Previous meetings were held in: Poznań (1986, 1989, 1992, 1998, 2003, 2012); Zielona Góra (1995, 2015); Wrocław (2001); Będlewo (2006) and Kraków (2009). The proceedings of the first two conferences were published by Teubner Verlag, Leipzig, as volumes 103 and 120 of the series *Teubner Texte zur Mathematik*. The proceedings of the third and fourth conferences appeared as special issues of the journal *Collectanea Mathematica*, volumes 44 and 48. The proceedings of the fifth conference were published by Marcel Dekker Inc., as *Lecture Notes in Pure and Applied Mathematics*, vol. 213. The proceedings of the sixth conference were published by World Scientific Publishing Co., Pte. Ltd. in 2003. The proceedings of Function Spaces VII, VIII, IX and X appeared as volumes 64, 68, 92 and 102 of Banach Center Publications. Finally, the proceedings of the eleventh conference were published as issue 1, volume 36 of the journal *Discussiones Mathematicae – Differential Inclusions, Control and Optimization*.

The conference *Function Spaces XII* gathered 93 participants from Europe (Austria, Czech Republic, Estonia, Finland, France, Germany, Poland, Portugal, Russia, Spain, Sweden, Turkey), America (Brazil, Canada, United States), Africa (South Africa) and Asia (China, Iran, Japan, Taiwan). Invited speakers were:

- Sergey Astashkin (University of Samara, Russia);
- Richard Becker (University Paris VI, France);
- Fernando Cobos (Universidad Complutense de Madrid, Spain);
- Yunan Cui (Harbin University of Science and Technology, China);
- Andreas Defant (University of Oldenburg, Germany);
- Loukas Grafakos (University of Missouri, USA);
- Dorothee Haroske (University of Rostock, Germany);
- Jerzy Kąkol (Adam Mickiewicz University, Poland);
- Agnieszka Kałamajska (University of Warsaw, Poland);
- Anna Kamińska (The University of Memphis, USA);
- Pierre Gilles Lemarié-Rieusset (Université d'Évry, France);
- Lech Maligranda (Luleå University of Technology, Sweden);

- José Mendoza (Universidad Complutense de Madrid, Spain);
- Stanisław Prus (Maria Curie-Skłodowska University, Poland);
- Enrique Alfonso Sánchez Pérez (Universitat Politècnica de València, Spain);
- Zhongrui Shi (Shanghai University, China);
- Lesław Skrzypek (University of South Florida, USA);
- Hans Triebel (Friedrich-Schiller-Universität Jena, Germany);
- Michał Wojciechowski (Polish Academy of Sciences, Poland);
- Przemysław Wojtaszczyk (Polish Academy of Sciences, Poland).

Apart from 20 plenary invited lectures, there were also 65 short (20 minute) talks presented in three sections. In the middle of the conference an excursion to the historic Salt Mine in Wieliczka was organized for the participants.

The scientific committee of the conference consisted of Julian Musielak (Honorary Chairman), Grzegorz Lewicki (Chairman), Henryk Hudzik, Mieczysław Mastyło, Marian Nowak, Ryszard Płuciennik and Leszek Skrzypczak. The members of the organizing committee were Julian Musielak (Honorary Chairman), Grzegorz Lewicki (Chairman), Henryk Hudzik, Paweł Kolwicz, Mieczysław Mastyło, Marian Nowak, Leszek Skrzypczak and two secretaries: Beata Deręgowska and Barbara Lewandowska. The conference was financially supported by the Faculty of Mathematics and Computer Science of the Jagiellonian University in Kraków, the Faculty of Mathematics and Computer Science of the Adam Mickiewicz University in Poznań, Institute of Mathematics of Poznań University of Technology, Department of Mathematics, Computer Science and Econometrics of University of Zielona Góra and by the Stefan Banach International Mathematical Center. The organizers express their gratitude to these institutions for their support and to the participants without whom there could have been no conference. The undersigned would like to thank the organizers for asking her to act as editor of this volume. She is also grateful to all authors for their valuable contribution to the proceedings.

Marta Kosek