

PREFACE

This volume is the proceedings of the International Conference *Function Spaces X* that was held in July 9–13, 2012, at the Faculty of Mathematics and Computer Science of the Adam Mickiewicz University in Poznań. It was a satellite conference to the 6th European Congress of Mathematics, held in Kraków (Poland) in July 2–7, 2012.

The International Conferences on Function Spaces have a 28 year tradition and serve to present current progress in the theory of functions and its applications. Previous conferences were held in Poznań (1986, 1989, 1992, 1998, 2003—The Władysław Orlicz Centenary Conference and Function Spaces VII), Zielona Góra (1995), 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, and finally the proceedings of Function Spaces VII, VIII and IX—by *Banach Center Publications* as volumes 64, 68 and 92.

The conference was attended by 104 mathematicians from three continents and 15 countries (P. R. China, France, Georgia, Germany, Iran, Japan, Kazakhstan, Mexico, Poland, Portugal, Russia, Spain, Sweden, Turkey and the USA). The program consisted of 22 plenary addresses delivered by invited specialists. The choice of plenary speakers was made by the Program Committee (see the next page). There were also presented 57 short (20 minute) lectures divided in three sections. In the middle of the conference an excursion to the Rydzyna castle was organized for the participants of the conference.

During the conference two special morning sessions took place. The first one was devoted to the memory of Professor Grigorii Ya. Lozanovskii while the second one commemorated an unexpected death of Professor RNDr. Miroslav Krbeč from the Institute of Mathematics of the Czech Academy of Sciences, who used to give plenary lectures at many conferences of the *Function Spaces* series, and also planned to attend the conference *Function Spaces X*.

The papers selected to the present volume show recent progress in such mathematical analysis domains as the theory of function spaces, approximation and interpolation theory, geometry of Banach spaces, Banach lattices, operator theory, fixed point theory, differential and functional equations, optimization and control theory and convex analysis.

The conference was financially supported by The Committee on Mathematics of the Polish Academy of Sciences, Faculty of Mathematics and Computer Science of Adam Mickiewicz University in Poznań, and Faculty of Mathematics and Computer Science of the Jagiellonian University in Kraków. The Organizers would like to express their gratitude to these institutions for the support and to the participants thanks to whom this conference could be organized and was so successful.

*Henryk Hudzik, Grzegorz Lewicki, Julian Musielak,
Marian Nowak, Leszek Skrzypczak and Marek Wiśła*

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