

Preface

The present volume is a collection of papers devoted to several topics in analysis and its applications. It originates from plenary lectures given at the 9th ISAAC Congress held during the period 5–9 August 2013 at the Pedagogical University of Cracow, Poland.

The papers collected in this volume are authored by plenary and key speakers of that meeting and are devoted to a range of topics in analysis and its applications to a broad selection of related subjects. They focus on different aspects of the current research and are, in particular, devoted to subjects in

- applications of probability to classical analysis,
- homogenisation theory,
- partial differential equations,
- applications to computer networks and data analysis,
- applications to medicine,
- and, finally, a tribute to the late Sergei Mikhailovich Nikolsky (30 April 1905–9 November 2012), an active participant in the previous ISAAC congresses.

The aim of this volume is to bring to the readers' attention a breadth of ideas and topics in analysis showing its diversity and a multitude of applications in a variety of disciplines. This is done by selecting topics from lectures on different subjects given at a major event devoted to analysis and its applications.

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