

Preface

Harmonic Analysis and Applications is one of the most rapidly developing areas of mathematics at the beginning of the twenty-first century. It has plenty connections to Operator Theory, Functional Analysis, modern Potential Theory, Partial Differential Equations, Boundary Value Problems, Integral and Pseudodifferential Equations, Complex Analysis and, last not least the Theory of Function Spaces. This intersects with the areas of Fractional Calculus and the most recent Variable Exponent Analysis – in $L^{p(\cdot)}$ spaces.

Stefan G. Samko is an exponent of these areas and their developments. His impressive lifework becomes evident in the survey article of Vakhtang Kokilashvili which leads the sequence of articles of this book. The paper of Sergei Rogosin treats some of Stefan Samko's partial interests in a rather compact form. Other contributions of this volume reflect the wide-range and cross connections between the areas mentioned before. Thus, these peer-reviewed research and survey papers will be of interest of a wide-range of readership in pure and applied mathematics.

The seventieth birthday of Stefan Samko on March 28, 2011, has been commemorated in a series of international conferences in Russia and Portugal, here particularly during the IDOTA 2011 on Integral and Differential Operators and Their Applications, held at Aveiro, June 30–July 2, organized by the *Center for Research and Development in Mathematics and Applications*, University of Aveiro. The contributions of this volume are related to lectures of this meeting and a summer school and workshop, STOP 2011 on Selected Topics of Operator Theory, held at Lisbon, June 24–30, which was organized by the *Center for Functional Analysis and Applications*, the research center in Portugal that hosted Stefan Samko within the last fifteen years. These last two scientific events beneficated from the financial support of Portuguese Science and Technology Foundation (“FCT – Fundação para a Ciência e a Tecnologia”) – which we also would like to acknowledge in here.

The editors like to express their gratitude to Stefan Samko for a fruitful and pleasant cooperation within that period of time. We feel happy to honour our hard-working colleague and humorous friend by the edition of this volume, and wish him good health and ever greater success in his work.

Aveiro and Lisbon, in March 2012

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Stefan G. Samko



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