

CONTEMPORARY MATHEMATICS

435

Function Spaces

Fifth Conference on Function Spaces

May 16–20, 2006

Southern Illinois University
Edwardsville, Illinois

Krzysztof Jarosz
Editor



American Mathematical Society

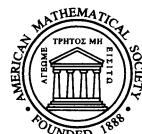
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PREFACE

The *Fifth Conference on Function Spaces* was held at Southern Illinois University at Edwardsville, from May 16 to May 20, 2006. It was attended by 120 participants from 25 countries. The lectures covered a broad range of topics, including spaces and algebras of analytic functions of one and of many variables (and operators on such spaces), L^p -spaces, spaces of Banach-valued functions, isometries of function spaces, geometry of Banach spaces, and other related subjects. The main purpose of the Conference was to bring together mathematicians interested in various problems within the general area of function spaces and to allow a free discussion and exchange of ideas with people working on the same problems as well as with people working on related questions. Hence, most of the lectures, and therefore the papers in this volume, have been directed to non-experts. A number of articles contain an exposition of known results (known to experts) and open problems; other articles contain new discoveries that are presented in a way that should be accessible also to mathematicians working in different areas of function spaces.

The Conference was the fifth in a sequence of Conferences on Function Spaces at SIUE; the previous Conferences were held in May of 1990, 1994, 1998, and 2002. The Proceedings of the first two conferences were published with Marcel Dekker in *Lecture Notes in Pure and Applied Mathematics* series (#136 and #172), the Proceedings of the last two conference were published by the AMS in the *Contemporary Mathematics* series (#232 and #328).

The abstracts, the schedule of the talks, and other information, as well as the pictures of the participants are available on the Conference WEB page at
<http://www.siu.edu/MATH/conference2006/>.

The Conference was sponsored by grants from Southern Illinois University and from the National Science Foundation. The editor would like to thank everyone who contributed to the Proceedings: the authors, the referees, the sponsoring institutions, and the American Mathematical Society.

The editor would also like to express very special thanks to his wife Dorota for her active professional help during all of the stages of the organization - without her help the Conference and the Proceedings would not have been possible.

Krzysztof Jarosz

This book consists of contributions by the participants of the Fifth Conference on Function Spaces, held at Southern Illinois University in May of 2006. The papers cover a broad range of topics, including spaces and algebras of analytic functions of one and of many variables (and operators on such spaces), L^p -spaces, spaces of Banach-valued functions, isometries of function spaces, geometry of Banach spaces, and other related subjects. The goal of the conference was to bring together mathematicians interested in various problems related to function spaces and to facilitate the exchange of ideas between people working on similar problems. Hence, the majority of papers in this book are accessible to non-experts. Some articles contain expositions of known results and discuss open problems, others contain new results.

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