Reproducing Kernels and their Applications

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Reproducing Kernels and their Applications

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PREFACE

The First International Congress of the International Society for Analysis, its Applications and Computations (ISAAC'97) was held at the University of Delaware from 3 to 7 June 1997. As specified in the invitation of the President Professor Robert P. Gilbert of the ISAAC, we organized the session on

Reproducing Kernels and Their Applications.

In our session, we presented 24 engaging talks on topics of current interest to the research community. As suggested and organized by Professor Gilbert, we hereby publish its Proceedings. Rather than restricting the papers to Congress participants, we asked the leading mathematicians in the field of the theory of reproducing kernels to submit papers. However, due to time restrictions and a compulsion to limit the Proceedings a reasonable size, we were unable to obtain a comprehensive treatment of the theory of reproducing kernels. Nevertheless, we hope this Proceedings of the First International Conference on reproducing kernels will become a significant reference volume. Indeed, we believe that the theory of reproducing kernels will stand out as a fundamental and beautiful contribution in mathematical sciences with a broad array of applications to other areas of mathematics and science.

We would like to thank Professor Robert Gilbert for his substantial contributions to the Congress and to our Proceedings. We also express our sincere thanks to the staff of the University of Delaware for their manifold cooperation in organizing the Congress. Finally, we wish to express our sincere thanks to the staff of Kluwer Academic Publishers and Mrs. Noriko Kimura of Gunma University for their help in publishing the Proceedings.

August, 1998

S. Saitoh D. Alpay J. Ball and T. Ohsawa