

Editorial

Luigi Rodino · M. W. Wong

Published online: 10 March 2010
© Birkhäuser / Springer Basel AG 2010

The Journal of Pseudo-Differential Operators and Applications is the culmination of scientific meetings and publications in pseudo-differential operators and related topics spearheaded by us in the last decade.

We first met at the International Conference on Geometry, Analysis and Applications held at Banaras Hindu University in India in memory of Professor V. K. Patodi on 21–24 August 2000. Since then we have met regularly in scientific meetings. Under the spotlight in this editorial are the Fourth ISAAC Congress at York University in August 2003, the first International Conference on Pseudo-Differential Operators and Related Topics organized by Professor Joachim Toft and held at Växjö University in Sweden in June 2004, the Fifth ISAAC Congress held at Università di Catania in July 2005, the C.I.M.E. Summer School held in Cetraro, Italy, in June 2006, the ISAAC Workshop on Pseudo-Differential Operators at the Fields Institute for Research in Mathematical Sciences in Toronto in December 2006, the Sixth ISAAC Congress held at the Middle East Technical University in Ankara, Turkey, in August 2007, the International Workshop on Pseudo-Differential Operators: Complex Analysis and Partial Differential Equations held at York University in August 2008 and the Seventh ISAAC Congress held at Imperial College London in July 2009. A gem of each of these events is the publication of a special volume. The papers originating from the ISAAC Workshop are published in Volume 52 of the Communications Series of the Fields Institute published by the American Mathematical Society in 2007 and the courses in the C.I.M.E. Summer School are featured in Volume 1949 of the Lecture

L. Rodino
Università di Torino, Torino, Italy
e-mail: luigi.rodino@unito.it

M. W. Wong (✉)
York University, Toronto, Canada
e-mail: mwwong@mathstat.yorku.ca

Notes in Mathematics published by Springer in 2008. Papers from each ISAAC Congress and the Växjö Conference can be found in the Birkhäuser series “Operator Theory: Advances and Applications”. To date, five Birkhäuser volumes have been published and the special volume for the London ISAAC Congress is scheduled to appear in 2011. In addition to the special volumes documenting the scientific proceedings of the events, a monograph series in Pseudo-Differential Operators was launched with Birkhäuser in Basel in 2006. Three monographs have hitherto appeared and several important book proposals are in the pipeline.

Certain themes in the developments of pseudo-differential operators in the last decade can be discerned from these activities and publications. The relevance of pseudo-differential operators to partial differential equations, analysis, geometry and mathematical physics has always been and will continue to be at the forefront of mathematics. At the same time, new applications and computations of pseudo-differential operators have been seen in signal analysis and image processing in atmospheric, geological and medical sciences. In view of these manifold developments in pseudo-differential operators, we are convinced that a journal devoted to pseudo-differential operators and applications is timely and will serve the mathematical community in the knowledge creation and technology transfer in this vibrant and broad area categorized by us as Pseudo-Differential Operators.