

Preface

This book brings together 18 carefully refereed research and review papers in the broad areas of optimization and functional analysis, with a particular emphasis on topics related to fixed-point algorithms. The volume is a compendium of topics presented at the *Interdisciplinary Workshop on Fixed-Point Algorithms for Inverse Problems in Science and Engineering*, held at the Banff International Research Station for Mathematical Innovation and Discovery (BIRS), on November 1–6, 2009. Forty experts from around the world were invited. Participants came from Australia, Austria, Brazil, Bulgaria, Canada, France, Germany, Israel, Japan, New Zealand, Poland, Spain, and the United States.

Most papers in this volume grew out of talks delivered at this workshop, although some contributions are from experts who were unable to attend. We believe that the reader will find this to be a valuable state-of-the-art account on emerging directions related to first-order fixed-point algorithms.

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