PREFACE

This volume presents contributions submitted by the participants of the international conference *Calculus of Variations and PDEs* held in Szczawnica, Poland, July 9–12, 2012. The conference was a satellite conference of *The Sixth European Congress of Mathematics* held in Kraków. Organizing institutions were Institute of Mathematics of the Polish Academy of Sciences, Jagiellonian University in Kraków and University of Warsaw. We would like to take the opportunity and express our gratitude to all organizations supporting the conference.

The aim of the conference was to gather analysts interested in calculus of variations, PDEs and connections between these areas. Topics of the conference included (but were not limited to) calculus of variations, partial differential equations of elliptic, hyperbolic and parabolic types, nonlinear PDEs, differential equations with variable exponent, partial differential inclusions, geometric function theory, function spaces used in PDEs, harmonic analysis, Fourier analysis and geometric measure theory.

Our aim was also to encourage young mathematicians to participate in the event and to deliver talks.

The conference gathered over 80 participants from 14 countries: Belgium, Czech Republic, Finland, Germany, Hungary, India, Iran, Italy, Poland, Portugal, Russia, Spain, Sweden and USA. There were 15 plenary talks, 44 presentations and a poster session. It is our pleasure to present this volume of the conference proceedings. The papers selected for publication represent variety of subjects studied by the authors. We would like to thank all the participants for coming to Szczawnica, delivering presentations and submitting articles to the proceedings.

Tomasz Adamowicz, Agnieszka Kałamajska,
Stanisław Migórski and Anna Ochal