

## Editorial

*From the Editor-in-Chief*

Welcome to the first issue of *Communications in Mathematics*!

Let me first introduce the journal. Despite a new name, *Communications in Mathematics* is not a new publication – it has a 17 year tradition, being a continuation of the journal *Acta Mathematica et Informatica Universitatis Ostraviensis*, founded in 1993, and later published under the title *Acta Mathematica Universitatis Ostraviensis* (2003–2009).

The journal is sponsored and published by the University of Ostrava on a non-profit basis, and we are grateful to the Rector of the University, Jiří Močkoř, for his support. With his help the face of the journal has been changed. The aim of these changes has been to transform the original university journal to a more prestigious publication in mathematics and its applications. We have altered the journal's title, and appointed a new Editor-in-Chief and a completely new editorial board. We are proud to have found Editors with established, high reputations in their respective fields.

The scope of the journal has also changed to match its new mission. *Communications in Mathematics* will publish articles in pure and applied mathematics, preferably in the following areas belonging to the research interests of the individual members of the editorial board:

- algebraic structures
- calculus of variations
- combinatorics
- control and optimization
- cryptography
- differential equations
- differential geometry
- fuzzy logic and fuzzy set theory
- global analysis
- mathematical physics
- number theory

The journal will publish original research articles which make a significant contribution to one or more topics, mostly within the above areas, as well as high quality survey papers. We encourage interdisciplinary papers and those developing applications of mathematical methods. The journal will regularly present reviews of recently published books and monographs for the interest of our readers.

This issue, co-edited by Geoff Prince and me, is devoted to geometric mechanics and the global calculus of variations. It contains three original research papers, one survey article and a book review.

From 2011 the journal will usually appear in two issues per year, both in printed form and on-line. Our authors will benefit from constructive peer reviews, a distinguished editorial board ensuring high quality articles, easy electronic submission and online progress tracking, and rapid publication - online within two months of acceptance of the final version. The policy of the journal is to make it as free and accessible as possible: as a matter of course there will be the benefit of full-text access for readers, a free use of colour and multimedia in the online edition, and no page charges for either authors or readers.

*Communications in Mathematics* will be reviewed in Mathematical Reviews and Zentralblatt MATH, and the editors hope that the high quality of published research will soon produce a high impact factor.

I would like to encourage our readers and potential authors to submit their quality research to *Communications in Mathematics*. I believe that we shall succeed in creating a high level mathematical journal and the open exchange of important results in different branches of mathematics.

Enjoy your reading!

Olga Krupková  
Editor-in-Chief