

SPECIAL ISSUE: EDITORIAL

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The Special Issue of *Kybernetika* is devoted to the publication of selected peer-reviewed articles submitted by the participants of the joint Czech and Slovak conference activity organized in cooperation with the Japanese counterpart in September 2006 as the *Czech and Slovak Twin Seminar in Applied Mathematics*. This activity consisted of the *First Slovak–Japanese Workshop on Computational Mathematics* held on September 9–13, 2006 in Kočovce, Slovakia, and of the *Czech–Japanese Seminar in Applied Mathematics 2006* which took place on September 14–16, 2006 in Prague, Czech Republic.

The First Slovak–Japanese Workshop on Computational Mathematics was organized by the Slovak Technical University in Bratislava and by the Comenius University in Bratislava. The Czech–Japanese Seminar in Applied Mathematics 2006 was organized by the Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague together with the Institute of Thermomechanics of the Czech Academy of Sciences. It was the third meeting in the series of the Czech–Japanese Seminars in Applied Mathematics. First of them took place in Prague in 2004, second one was held in Kuju, Kyushu in 2005. They all were devoted to the meeting of applied mathematicians and researchers from applied disciplines dealing with numerical solution of partial differential equations, mathematical modelling and numerical simulation of problems in technology, environment, biology and computer science. The contents of seminars is reflected by the proceedings with peer-reviewed contributions submitted by the participants. The Proceedings of the Czech–Japanese Seminar in Applied Mathematics 2004 was published by the Czech Technical University in Prague in 2005 and it can also be found on

<http://geraldine.fjfi.cvut.cz/cjs2004/proceedings.php>

The Proceedings of the Czech–Japanese Seminar in Applied Mathematics 2005 was published by the Kyushu University in Fukuoka in 2006 within the COE Lecture Note Series of Kyushu University, Volume 3 and it can also be found on

<http://geraldine.fjfi.cvut.cz/cjs2005/proc.html>

The articles submitted by the participants of the Czech and Slovak Twin Seminar in Applied Mathematics 2006 were carefully considered by the editors and divided into two parts. The selected peer-reviewed contributions form the Special Issue of the journal *Kybernetika*. Remaining peer-reviewed articles were published by

the Kyushu University in Fukuoka in 2007 within the COE Lecture Note Series of Kyushu University, Volume 6. It can also be found on

<http://geraldine.fjfi.cvut.cz/cjs2006/proc.html>

The Special Issue as well as the published proceedings reflect fruitful atmosphere and interesting composition of topics of the joint meeting.

Main interest of the contributors is focused on mathematical and numerical methods such as finite-element method, finite-volume method and finite-difference method for numerical solution of partial differential equations, dynamical-system theory, curvature flow and mathematical economy. Application of the above mentioned methods can be found in material science, porous media flow, combustion problems, image processing, environment, advective processes and geodesy.

The Issue contains 14 articles accepted after the authors included the referee remarks and comments into their texts. Publication of one article was rejected.

The organizing committee of the common activity and the editors of the Issue appreciate the activity of all participants, authors of contributions and article reviewers. Especially, the help and advice of Karel Sladký during the preparation of the Issue is gratefully acknowledged.

The conference pages and related links are on the address:

<http://geraldine.fjfi.cvut.cz/cjs2006/cjs06.html>

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