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Czech-Japanese Seminar in Applied Mathematics 2008

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SPECIAL ISSUE: EDITORIAL

MICHAL BENEŠ, PETR KNOBLOCH, TOHRU TSUJIKAWA AND SHIGETOSHI YAZAKI

The Special Issue of *Kybernetika* is devoted to the publication of selected peer-reviewed articles submitted by the participants of the *Czech–Japanese Seminar in Applied Mathematics 2008* which took place on September 1–7, 2008 in Takachiho and Miyazaki, Japan.

The Czech–Japanese Seminar in Applied Mathematics 2008 was organized by the Department of Applied Physics, Faculty of Engineering, University of Miyazaki. It was the fourth 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, and third one was organized in Prague in 2006. 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, finance 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 selected peer-reviewed contributions of participants of the Czech and Slovak Twin Seminar in Applied Mathematics 2006 form the Special Issue of the journal *Kybernetika* Vol. 43 in 2007 published on line as well

<http://kybernetika.utia.cas.cz/content/436.html>

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 articles submitted by the participants of the Czech–Japanese Seminar in Applied Mathematics 2008 were carefully considered by the editors and divided into two parts. The selected peer-reviewed contributions form this Special Issue of the journal *Kybernetika*. Remaining peer-reviewed articles were published by the Kyushu University in Fukuoka in 2008 within the COE Lecture Note Series of Kyushu University, Volume 14, 2009.

The Special Issue as well as the published proceedings reflect fruitful atmosphere and interesting composition of topics of the 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, financial processes, environment, advective processes and geodesy.

The Issue contains 11 articles accepted after the authors included the referee remarks and comments into their texts. Publication of three articles 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 of the journal editor Lucie Fajfrová during the preparation of the Issue is gratefully acknowledged.

The conference pages and related links are on the address:

<http://www.miyazaki-u.ac.jp/~yazaki/research/cjs/cjs2008.html>

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