

Irina Perfilieva; Michael Wagenknecht  
Editorial

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## Editorial

*Irina Perfilieva, Michael Wagenknecht*

Dear Reader,

this special issue contains selected papers from the 10th International Student Conference in Applied Mathematics and Informatics, ISCAMI'09 which took place in Malenovice, near Ostrava on May 13–15, 2009. The conference was organized by the Institute of Research and Applications in Fuzzy Modeling (IRAFM), University of Ostrava.

ISCAM was a traditional student conference in applied mathematics organized by two faculties of the Slovak University of Technology in Bratislava. Professor Zdenka Riečanová from the Faculty of Electrical Engineering and Information Technology and professor Radko Mesiar from the Faculty of Civil Engineering were founders of this conference in years 1999–2007.

ISCAMI'09 took over a tradition of ISCAM and extends it with informatics and various applications. The main purpose of ISCAMI'09 was to bring together young researchers and students and to give them an opportunity to present their achievements and ideas in the area of applied mathematics, informatics and various applications.

Three contributions: “Asymptotic Comparison of Two Constructions for Large Digraphs of Given Degree and Diameter”, “On a Generalization of Helmholtz Conditions”, and “Analysis of the Predator-Prey Model with Climax Prey Population” that we have selected for this special issue, show a relationship between theory and applications in two directions. The first two contributions show how real life problems evoke their mathematical processing and then lead to special theories, while the third contribution shows how mathematics can be directly applied to a real life problem.

All contributions show unlimited abilities of mathematical science in breaking frontiers between theory and its applications.

Editors Irina Perfilieva and Michael Wagenknecht