

### International Scientific Committee:

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### Organizing committee:

Katarzyna Filipiak, Jan Hauke, Augustyn Markiewicz (Chair): [amark@up.poznan.pl](mailto:amark@up.poznan.pl), Aneta Sawikowska, Anna Szczepańska, and Waldemar Wołyński.

### Organizers:

- Stefan Banach International Mathematical Center, Warsaw
- Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań
- Institute of Socio-Economic Geography and Spatial Management, Faculty of Geography and Geology, Adam Mickiewicz University, Poznań
- Department of Mathematical and Statistical Methods, Poznań University of Life Sciences
- Polish Mathematical Society



<http://mtriad09.amu.edu.pl/>

### PRELIMINARY ANNOUNCEMENT

The workshop will be held on 23-27 March 2009 at Będlewo near Poznań, Poland. Będlewo is the Mathematical Research and Conference Center of the Polish Academy of Sciences, with accommodation on site. See:

<http://www.impan.gov.pl/Bedlewo> .



This workshop will be the third in a series. The previous two workshops were held in Będlewo in 2005 and 2007. The aim is to bring together researchers sharing an interest in a variety of aspects of matrix analysis and its applications in other parts of mathematics and offer them a possibility to discuss current developments in these subjects.

Matrix theory is used in practically all other parts of mathematics and all areas to which mathematics is applied, and, in return, other parts of mathematics can be very useful in proving things about matrices, sometimes things that are very difficult or impossible to prove using conventional matrix theoretic methods. Many advances have been made recently, both theoretically and practically, with a lot of discussion between matrix people and others.

The presentations of both Invited and Contributed papers will be included.

Researchers and graduate students in the area of linear algebra, statistical models and computation are particularly encouraged to attend the workshop. The list of invited will be opened by four winners of Young Scientists Awards of MAT-TRIAD 2007 (YSA 2007) promoted by the workshop.

### Invited speakers (so far confirmed):

- Richard S. Varga (USA)
- Juan Manuel Peña (Spain)
- Dietrich von Rosen (Sweden)
- João Tiago Mexia (Portugal)



YSA'07 Winners

### Invited speakers - YSA 2007

- Miguel Fonseca (Portugal)
- Vladimir Kostić (Serbia)
- Dorota Kubalińska (Germany)
- Iwona Wróbel (Poland)

### The workshop will include two special courses:

- Andrzej Cegielski (Poland)

#### *"Iterative methods for large scale linear feasibility problems"*

We consider linear feasibility problems and linear split feasibility problems. We reduce the problems to finding a fixed point of an algorithmic operator and present iterative methods for solving these problems. Moreover, we present application and methods for solving these problems.

- Charles R. Johnson (USA)

#### *"Special classes of matrices"*

There are many famous classes of matrices that have special and important properties. Examples: positive definite, positive, M-matrices, totally positive, P-matrices, etc. Some of these have related properties, and much of the research of the last century in matrix analysis centers around these special classes (all of which arise naturally in applications, but are fundamental building blocks of the subject. We survey the most important classes and their properties and identify areas in which fruitful research is still likely.

### Contributed Papers are welcome!

The deadline for the registration is **February 28, 2009**.

The deadline for submission of abstracts of contributed papers is **January 31, 2009**.

### Workshop schedule:

The Workshop is planned to open on **Monday, March 23**, in the morning, and close on **Friday, March 27**, in the evening.

The participants are expected to arrive at Będlewo on **Sunday, March 22**, in the afternoon. Departure from Będlewo is planned on **Friday, March 27**, in the evening or **Saturday, March 28**, in the morning.

### Workshop fees:

The workshop fee covering the accommodation on site (single room with shower) and full board during the workshop, the expenses of workshop materials, printing of abstracts, the conference banquet and social events:

- Regular - 400 EUR;
- PhD students presenting talk or poster - 300 EUR;
- Accompanying persons – 250 EUR.

For methods of payment and the registration form see:

<http://mtriad09.amu.edu.pl/>

