Sixth Conference on Finite Difference Methods: Theory and Applications,

June 18-23, 2014
Lozenetz, Bulgaria

Rousse University

Organized by Division of Numerical Analysis and Statistics, University of Rousse, Rousse, Bulgaria.

This conference is sixth in a series: August 10-13, 1997, Rousse, (Bulgaria); July 6-9, 1998, Minsk (Belarus); September 1-4, 2000, Palanga, (Lithuania), Lozenetz (Bulgaria), August 26-30, 2006, Lozenetz, June 28 - July 2, 2010.

The main topics of the conference are planned to be:

  Validation of finite difference methods for solving problems of mathematical physics

  Combined finite difference and finite element methods

  Iterative methods and parallel algorithms for solving grid equations

  Finite difference methods for nonlinear problems

  Inverse problems and problems of control

  Finite difference methods in fluid and continuum mechanics

  Applications of difference methods to engineering problems, biology, economics, etc.

Special topics:

Novel methods in computational finance

Advanced numerical and applied studies of fractional differential equations

List of Plenary and Key Lecturers, who already accepted the invitation of the Organization Committee: A.Ashyralyev (Turkey), M.Ehrhardt (Germany), I.Farago (Hungary), M.J.Gander (Switzerland), K.in'tHout (Belgium), B.S.Jovanovic (Serbia), N.Kopteva(Ireland), R.Lazarov (USA), T.Linß (Germany), B.Mikhailenko (Russia), P.Minev (Canada), B.Popov (USA), V.Rukavishnikov (Russia), G.Shishkin (Russia), V.Shidurov (Russia), P.Vabishchevich (Russia), S.Wang (Australia), G.Yin (USA), I.Yotov (USA), A.Zlotnik (Russia).

Organizing Committee: L. Vulkov (Chairman), I. Angelova, T. Chernogorova, J. Dimitrov, M. Koleva, W. Mudzimbabwe, R. Valkov

Conference Programme includes plenary lectures, invited lectures, reports at sessions, minisymposia.

Papers for the Proceedings: Proceedings (a book in Springer: Lecture Notes in Computer Science (LNCS) series) of only refereed papers (up to 8 pages for contributed talks and up to 12 pages for key lectures) will be published in a book as previous conferences, (see http://www.uni-ruse.bg/naa12). Each paper publication must be covered by separate registration fee.

Conference Location: Hotel Ambelitz in the village Lozenetz on the southern seaside of Bulgaria, see http://www.ambelitz.com/indexen.html

Conference Site: **http://www.uni-ruse.bg/fdm14**   **Contact Address:**

Department of Applied Mathematics and Informatics,

Chairman: L. Vulkov,   University of Rousse "A.Kanchev",

E-mail: **lvalkov@uni-ruse.bg**   Studentska str.8, 7017 Rousse, Bulgaria

Conference Secretary: Miglena Koleva   **Tel:** +359(0)82/888725

E-mail: mkoleva@uni-ruse.bg   **Fax:** +359(0)82/845708

Conference Fee: The conference fee covers a reception, an excursion, welcome party, conference dinner, a volume with the abstracts, the proceedings, the expenses for publishing of the submitted paper and some other materials. It is for:

Non-students: 300 EURO;   Students: 150 EURO;   Accompanying person: 80 EURO.

Deadlines:

Deadline for registration: **February 15, 2014**

Deadline for proposal for organizing of minisymposia: **February 30, 2014**

Deadline for abstract submissions**: February 15, 2014**

Notification of acceptance **: February 30, 2014**

Deadline for submissions of the full paper**: April 30, 2014**

Notification of acceptance of the full paper**: June 1, 2014**

Accommodation will be arranged in Ambelitz Hotel (http://www.ambelitz.com).

Appendix: 3 minisimposia already announced:

B.Mikhailenko(Russia): Computational methods in mathematical geophysics

S.Wang(Australia): Robust numerical methods in mathematical finance

G.Shishkin(Russia): Fitted mesh methods for problems with boundary/interior layers