

Second International Scientific Symposium

THE MODELING OF NONLINEAR PROCESSES AND SYSTEMS (MNPS-2011)

June 6 – 10, 2011

(Russia, Moscow, Moscow State University of Technology “STANKIN”)

FIRST INFORMATION

ORGANIZERS OF THE CONFERENCE

Moscow State University of Technology «Stankin» (Moscow)

Moscow State Academy of Water Transport (Moscow)

Biophysics of Cell Institute RAS (Pushchino, Moscow Region, Russia)

The Institute of Mathematical Problems of Biology RAS (Pushchino, Moscow Region, Russia)

Keldysh Institute of Applied Mathematics RAS (Moscow)

Physical Institute RAS (Moscow)

Centro de Matemática Aplicada, Instituto Superior Técnico (Lisbon, Portugal)

Focus of discussion at the conference will be the nonlinearity of the appearances under investigation, application of modern constructive solution, methods, the investigation of the kinetic and wave processes, the interaction of electromagnetic radiation with clusters and fractal objects, the information extension laws, the investigation of bio-molecule systems, the discussion of modern economics and ecology problems from mathematical modeling point of view.

It was held seven previous conferences namely: «Mathematical Models of Nonlinear Excitations, Transfer, Dynamics, and Control in Condensed Systems and Other Media» (Tver, 1994, 1996, Moscow, 1998, 2000), two mathematical modeling International Congresses (Dubna, 2002, Nizhny Novgorod, 2004) and the first International Conference «Modeling of the Nonlinear Processes and Systems» (Moscow, 2008). It has been published the abstracts proceedings, in particular in Kluwer Academic / Plenum Publishers (1999, 2001) and the Conference 2008 (these proceedings are presented in the publishing house Nova Science Site, <http://www.amazon.co.uk/Mathematical-Non-Linear-Phenomena-Processes-Systems/dp/1608769941>). Distinguishing features of such Conferences were the interdisciplinary and detailed investigation of nonlinear processes. The given Conference continues these traditions, and expands discussions in accordance with modern extending of many areas of physics, chemistry, biology, economics, ecology and the development of mathematical modeling and synergistic methods for the solution of nonlinear problems.

Scope of Conference

The conference covers following aspects

- ❖ Methods of mathematical modeling and their applications
- ❖ Nonlinear transport models
- ❖ Interaction of electromagnetic field with nonlinear systems
- ❖ Problems of modern ecology
- ❖ Modeling of spreading of industrial and natural aerosols over water basins
- ❖ Mathematical models in economics
- ❖ Clusters and nanosystems modeling

- ❖ Molecular and biomolecular systems
- ❖ Bionanocomplexes
- ❖ Modeling of information – active systems
- ❖ Synergistic aspects of modern science
- ❖ Numerical methods
- ❖ Difference equations
- ❖ Physical kinetic models
- ❖ Wave processes (including hydrodynamics)
- ❖ Real analysis
- ❖ Nonlinear problems of control theory
- ❖ Controversial problems of natural science and mathematics (round-table talk)

The conference languages are English and Russian.

Abstract Submission

Conference attendees are requested to submit abstract for review by the deadline of 30th April 2011.

The abstracts should be presented in font “Times New Roman”, size 12pt in both WORD and PDF format. The abstracts amount: one or two pages abstracts in English with following margins (bottom, top, left and right – 2.5cm).

EXAMPLE.

UNIVERSAL NONLINEARITY

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SEI MSTU “STANKIN”, Moscow, Russia

127055, Vadkovskii lane, 3a

Tel.: (+7095)972-42-55, e-mail: ivanova@rambler.ru

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References:

Smirnov A.V., Book Title with Initial Letter.-City: Publisher, Year.

Petrov K.L.//Journal, v.73, №1. Year, P.1-12.

The mechanisms for abstract submission:

- By e-mail to Organizing Committee: uvar11@yandex.ru or olgitast@mail.ru
- Online submission on conference site www.conf.stanmath.ru

Publications.

The information on the publications of Proceedings of the conference will be issued later.

The oral sessions will consist of plenary (35 minutes) and section (20 minutes) papers. Posters will be displayed on boards. All kinds of necessary demonstration equipment will be available.

The Conference will be held in Moscow on Moscow State University of Technology «Stankin», June, 6-10, 2011.

INTERNATIONAL SCIENTIFIC COMMITTEE

N.B. Aleksic (Serbia), A. Arinstein (Israel), I. Agranovski (Australia), D.S. Chernavskii, B.N. Chetverushkin, (Russia), D. Gramotnev (Australia), H. Haken (Germany), E. Jankowska (Poland), V.V. Komarov, N.N. Karabutov, V.I. Komarov, V.D. Lakhno, V.I. Lobanov (Russia), B.L. Malyshev (Byelorussia), A. Al Natsheh (Finland), V. Protopopescu (USA), I.V. Puzynin, G.Yu. Riznichenko, Yu. M. Solomentsev, V.V. Sokolov, T.A. Sushkevich (Russia), E. SChemeidel (Poland), D.S. Traitak, V.V. Vedenjapin. (Russia)

INTERNATIONAL PROGRAM COMMITTEE

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LOCAL ORGANIZING COMMITTEE

S.N. Grigor'ev –*co-chairman*, L.A. Uvarova – *co-chairman*, Yu.V. Eliseeva, O.A. Kazakov, D.M. Kiselev, V.G. Kirichenko, E. M. Krasikova, I.V. Krivenko, D.M. Moiseev - *scientific secretary*, A.I. Sukov, E.Yu. Romanova, M.A. Rusinov, M.A. Smirnova, O.V. Stihova - *scientific secretary*, A.V. Shapovalov

DATES:

30th April 2011

Deadline for abstract submission

12th May 2011

Notification of abstract acceptance.

The Conference Organizing Committee endeavors to notify abstract submitters within 10 (ten) days of the receipt of their abstract(s). In case you will not have received any reply after this period, please feel free to contact uvar11@yandex.ru or olgitast@mail.ru for clarification

10th March 2011

Distribution of the second information

20th -25th May 2011

The publication of the conference program

6th – 10th June 2011

Main conference program

The registration fee is \$150 and \$75 for postgraduates and students. The registration fee includes: printed materials, coffee-breaks, meeting of participants. The participants of the Conference can pay the registration fee at the arriving to Organizing Committee.

Accommodation: information will be announced in the near time.

Visa: necessary information will be announced in addition at notification of abstract acceptance and dispatch of invitation.

Social Program: excursions, concert in conservatoire, conference dinner, **trip on motor ship on Moscow – river (it is included in general conference program).**

Travel information: Travel from Airport Domodedovo to Moscow: by train to metro station Paveletskaya. Travel from Airport Sheremetievo to Moscow: by train to metro station Byelorusskaya. Further: by metro to station Mendeleevskaya and by any trolleybus to stop “Vadkovskii lane” (it is second stop from the metro station). Cost of such travel is about \$10. Cost of the travel from Airport to MSTU “Stankin” by taxi is about \$100.

CONTACT US:

The Organizing Committee address:

Vadkovskii lane, 3a, Moscow, 127055, Russia

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Conference site www.conf.stanmath.ru

REGISTRATION FORM

Last Name, Title(s) _____

First Name(s) _____

Title of paper _____

Oral _____ Poster _____

Organisation _____

Department _____

Street _____

Postal Code, City, Country _____

Phone _____ Fax _____

e-mail _____