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VIII CONGRESS OF THE INTERNATIONAL SOCIETY FOR ANALYSIS, ITS APPLICATIONS AND COMPUTATION

The International Society for Analysis, its Applications and Computation (ISAAC) is a non-profit organization established in 1994 to promote and advance analysis, its applications, and its interaction with computation. Analysis is understood here in the best sense of the word, including differential equations, integral equations, functional analysis, and function theory.

Several mathematical journals are associated with the ISAAC, namely
- Applicable Analysis
- Integral Transforms and Special Functions
- Complex Variables and Elliptic Equations
- Inverse Problems in Science and Engineering
- International Journal of Evolution Equations
- Journal of Computational Mathematics and Optimization
- Journal of Analysis and Applications
- Advances in Algebra and Analysis
- Journal of Function Spaces and Applications
- Eurasian Mathematical Journal

World Scientific publishes the ISAAC Book Series titled Series on Analysis, Applications and Computation.

One of the main activities of the ISAAC is organising biannually International ISAAC Congresses. There have already been seven of them. They took place in the USA (Delaware 1997), Japan (Fukuoka 1999), Germany (Berlin 2001), Canada (Toronto 2003), Italy (Catania 2005), Turkey (Ankara 2007) and the United Kingdom (London 2009). At each congress there are many sessions dedicated to various branches of analysis, which may vary from congress to congress. Below is the list of the sessions of the last 7th International ISAAC Congress, containing also the names of session organisers.

I. Complex Analysis
I.1. Complex variables and potential theory (T. Aliyev, M. Lanza de Cristoforis, S. Plaksa, P. Tamrazov)
I.2. Differential equations: Complex and functional analytic methods, applications (H. Begehr, D.-Q. Dai, J.Y. Du)
I.3. Complex-analytical methods for applied sciences (V. Mityushev, S. Rogosin)
I.4. Zeros and Gamma lines – value distributions of real and complex functions and mappings (G. Barsegian, G. Csordas)

II. Hypercomplex Analysis
II.1. Clifford and quaternion analysis (I. Sabadini, F. Sommen)
II.2. Analytical, geometrical and numerical methods in Clifford- and Cayley-Dickson Algebras (K. Guerlebeck, V. Kisil, W. Sproessig)

III. Functional Analysis and Operator Theory
III.1. Toeplitz operators and their applications (S. Grudsky, N. Vasilevski)
III.2. Reproducing kernels and related topics (A. Berlinet, S. Saitoh)
III.3. Modern aspects of the theory of integral transforms (A. Kilbas, S. Saitoh)
III.4. Spaces of differentiable functions of several real variables and applications (V. Burenkov, S. Samko)
III.5. Analytical and harmonic function spaces (R. Aulaskari, T. Kaptanoglu, J. Raettyae)
III.6. Spectral theory (E.B. Davies, A. Laptev, Yu. Safarov)

IV. Partial Differential Equations
IV.1. Pseudo-differential operators (L. Rodino, M.W. Wong)
IV.2. Dispersive equations (F. Hirosawa, M. Reissig)
IV.3. Control and optimisation of non-linear evolutionary systems (G. Avalos, I. Lasiecka)
IV.4. Nonlinear PDE (V. Georgiev, T. Ozawa)

V. Applied Analysis
V.1. Inverse problems (Y. Kurylev, M. Yamamoto)
V.2. Stochastic analysis (D. Crisan, T. Lyons)
V.3. Coercivity and functional inequalities (D. Bakry, B. Zegarlinski)
V.4. Dynamical Systems (J. Lamb, S. Luzzatto)

VI. Others (this session is reserved for contributions which do not fit in any of the above sessions)

At each congress the ISAAC Awards are presented to young scientists of age below 40 at the time of the congress for particular merits in analysis, its applications and computation. Candidates for the awards may be nominated by ISAAC Board Members and Session Organisers, but also may apply by themselves.

The forthcoming 8th International ISAAC Congress will be held in Moscow on the premises of Peoples' Friendship University of Russia (PFUR) through 22-27 August, 2011.

PFUR is a comparatively young university. In February 2010 it celebrated its 50th anniversary. Presently, PFUR and its branches are training about 30 thousand undergraduate and post-graduate students from 139 countries of the world, among them representatives of about 500 nationalities and 5200 foreign citizens.

Below is an extract from the presentation of PFUR on the web-site by the Rector, academician of Russian Academy of Education, Professor of mathematics Vladimir Filippov:

"...The university was established in 1960 and till 1992 was called Peoples' Friendship University named after Lumumba. It goes without saying that a lot has changed at the University since those times, including its name. The number of schools and

branches of study has increased; a two-level education system has been introduced (i.e. Bachelor's degree and Master's degree Programmes); the number of students has considerably grown; new additional syllabi have been set up...

Our international classic University has been rated among the first five best Universities of Russia for the last decade. One of our main assets is the possibility of getting more than one degree: a degree in your chosen profession, one or two degrees in foreign languages and a degree in second higher education. Our graduates' success in career and business proves the high quality of our education. However, the nature of the University, the pattern of University life remains unchanged. It is characterized by the spirit of cooperation, friendship, mutual understanding and assistance... We are molding intellectual elite, future leaders for Russia and other countries worldwide..."

The first mathematical departments to be opened at PFUR were the department of differential equations and functional analysis and the department of algebra and geometry. They were headed by prominent scientists-mathematicians: Professor L.E. Elsgolts and Professor V.V. Ryzhkov. Among the well-known mathematicians who have greatly contributed to the work of the mathematical departments were Professors D.P. Zhelobenko, V.N. Maslennikova, V.I. Rozhkov, L.V. Sabinin, P.P. Bocharov. There are many world recognised experts among current professors of mathematics, in particular in analysis.

Peoples Friendship University of Russia has excellent facilities and much experience of organising international conferences. The university's mathematicians will work hard to ensure that the 8-th International ISAAC congress is an event of the highest quality.

Professor V.I. Burenkov
Vice-President of the ISAAC