EVENTS

IV Congress of the Turkic World Mathematical Society (TWMS)

The IV Congress of the Turkic World Mathematical Society was held in Baku, Azerbaijan, on 1-3 July, 2011. The aim of the Congress was to provide a forum, where scientists and mathematicians from academia and industry can meet to share ideas of latest research works in wide branches of mathematics.

The Congress was mainly organized by the Ministry of Education of Azerbaijan Republic, Institute of Applied Mathematics of Baku State University with the collaboration of the Azerbaijan National Academy of Sciences.

562 talks have been presented during three Congress days. 314 participants from more than 20 countries including France, Iran, Turkey, Georgia, Uzbekistan, USA, Russia, Ukraine, Kazakhstan, Turkmenistan, Kyrgyzstan, Germany, Latvia, Italy, Czech Republic, Spain participated in the Congress. The talks were presented in the following sections: Algebra and Mathematical Logic, Geometry and Topology, Function Theory and Functional Analysis, Partial and Ordinary Differential Equations, Probability Theory, Mathematical Statistics and Fuzzy Systems, Computational Mathematics, Control Theory and Optimization, Mathematical Modeling, Theoretical Bases of Information Technologies, History and Teaching Methods of Mathematics.

The list of invited speakers included 8 well-known experts. The following invited lectures were presented at the plenary sessions:

Garib Murshudov (York University, York, UK) - "Some application of statistics to macromolecular crystallography";

Suleyman Ustunel(Institute Telecom-Paristech, Paris, France) - "Recent developements of the Malliavin calculus and analysis on the Wiener space";

Sabir Gusein-Zade (Lomonosov Moscow State University, Moscow, Russia) - "Poincare series of multi-index filtrations";

Mukhtarbai Otelbaev (Institute of Mathematics, Science and Mechanics, Almaty, Kazakhstan) - "On an existence of the strong solution of the Navier-Stokes equation";

Ali Ulger (Koch University, Istanbul, Turkey) - "Some characterizations of Riesz sets";

Tynysbek Kalmenov (Institute of Mathematics, Informatics and Mechanics, Almaty, Kazakhstan) - "Solution of the mixed Cauchy problem for one-dimensional heat conducting equation in quadratures by the method of external potentials";

Akif Gadjiev (Institute of Mechanics and Mathematics ANAS, Baku, Azerbaijan) -"Symbols of multidimensional singular integrals and oscillating multipliers in the weighted spaces of Bessel potentials on the sphere";

Vincenzo Parenti Castelli (University of Bologna, Bologna, Italy) -"Computational issues in the synthesis of parallel mechanisms for the modelling of articular human joints".

All submitted materials were per reviewed. The selected papers is planning to be published in "Applied and Computational Mathematics" (ISSN 1683-3511, indexed in Scopus and in Science Citation Index Expanded, www.science.az/acm),"TWMS Journal of Pure and Applied Mathematics" (ISSN 2076-2585) and "TWMS Journal of Applied and Engineering Mathematics" (ISSN 2146-1147).

During the Congress days new President, vice-presidents and Steering Board members of the Society were elected.

It was founded TWMS Science Foundation (TWMS SF), its President and Council were elected.

It was decided to continue this series of Congresses and to hold the next Congress in 2014 in Kyrgyzstan.

On behalf of the Steering Board of TWMS we thank to all authors, participants, invited speakers, reviewers and members of the Organizing Committee, the International Program Committee, the Local Committee and the Ministry of Education of Azerbaijan Republic, Azerbaijan National Academy of Sciences and Baku State University for the contribution in organization of the Congress.

Nargozy Danaev, Amanbek Jainakov, Gamar Mammadova