

Summer Research Workshop on Quantum Information Science Taiyuan (Shanxi), China, July 17–27, 2012

Report by Jinchuan Hou and Chi-Kwong Li

The Summer Research Workshop on Quantum Information Science was held at the Taiyuan University of Technology, Taiyuan, Shanxi, China, July 17–27, 2012. The purpose of the summer workshop was to promote collaborative research on the rapidly developing interdisciplinary area of quantum information science. The focus was on the mathematical aspects of the subject.

Over 10 active researchers gave presentations at the workshop, including Yu Guo, Utkan Gungordu, Jinchuan Hou, Nathaniel Johnston, Chi-Kwong Li, Mikio Nakahara, Yiu-Tung Poon, Nung-Sing Sze, Yidun Wan, Shengjun Wu and Karol Zyczkowski. They presented recent results and open problems on different aspects of quantum information science such as entanglement, quantum operations, entropies, quantum discord, quantum error correction, NMR quantum computing, and preserver problems in quantum information science.

See the schedule at <http://cklixx.people.wm.edu/qc2012.html> and <http://www.tyut.edu.cn/mathinst/show.asp?id=90> (in Chinese) for details. Workshop reports and more were uploaded to <http://www.tyut.edu.cn/mathinst/list.asp?id=84>. There were more than 40 participants for the workshop including many graduate students; see <http://www.tyut.edu.cn/mathinst/show.asp?id=136>. Participants exchanged ideas, results and problems in a friendly atmosphere.



Summer Research Workshop on Quantum Information Science Group Photograph

International Conference on Trends and Perspectives in Linear Statistical Inference and the 21st International Workshop on Matrices and Statistics Będlewo, Poland, July 16–20, 2012

Report by Francisco Carvalho and Katarzyna Filipiak

The 2012 edition of LinStat – the International Conference on Trends and Perspectives in Linear Statistical Inference, and the 21st IWMS – the International Workshop on Matrices and Statistics, was held at the Mathematical Research and Conference Center of the Polish Academy of Sciences in Będlewo near Poznań, Poland. Będlewo with its beautiful surroundings and privileged conditions to promote conferences made possible a get-together with highly considered specialists and researchers interested in the topics selected for these conferences.

The Scientific Committee of LinStat'2012 was chaired by Augustyn Markiewicz (Poland) and the International Organizing Committee of 21st IWMS was chaired by Simo Puntanen (Finland) holding George P.H. Styan as Honorary Chair. The Local Organizing Committee for both conferences was chaired by Katarzyna Filipiak (Poland).

The conferences were supported by the following: Stefan Banach International Mathematical Center, Institute of Mathematics of the Polish Academy of Sciences, Warsaw; Faculty of Mathematics and Computer Science, Adam Mickiewicz

University, Poznań; Institute of Socio-Economic Geography and Spatial Management, Adam Mickiewicz University, Poznań; and the Department of Mathematical and Statistical Methods, Poznań University of Life Sciences.

The purpose of the meeting was to bring together researchers sharing an interest in a variety of aspects of statistics and its applications as well as matrix analysis and its applications to statistics, and offer them a possibility to discuss current developments in these subjects.



Group Photograph of LinStat' 2012 Conference Participants

The plenary talks by invited speakers were delivered by Rosemary A. Bailey (U.K.), Rajendra Bhatia (India), Somnath Datta (U.S.A.), Thomas Mathew (U.S.A.), Paulo E. Oliveira (Portugal), K. Manjunatha Prasad (India) and Peter Šemrl (Slovenia) as well as by the Young Scientists awarded for the best talks and poster at LinStat'2010: Olivia Bluder (Austria), Chengcheng Hao (Sweden) and Paulo C.Rodrigues (Portugal).

Over 90 talks and 16 posters were presented, including a special session devoted to George P.H. Styan's 75th birthday (organized by Simo Puntanen). Other special sessions included High-Dimensional Data (organized by S. Ejaz Ahmed), Model Selection, Penalty Estimation and Applications (organized by S. Ejaz Ahmed), Robust Statistical Methods (organized by Anthony C. Atkinson), Optimum Design for Mixed Effects Regression Models (organized by Barbara Bogacka), Experimental Designs (organized by Steven Gilmour), Multivariate Analysis (organized by Dietrich von Rosen), Mixed Models (organized by Júlia Volaufová) and Matrices on Linear Models (organized by Hans Joachim Werner).

During the conference dinner, the Scientific Committee proudly announced the winners of the Young Scientists Awards for the best talks presented by Ph.D. students and young scientists: Maryna Prus (Germany), Jolanta Pielaszkiewicz (Sweden) and Fatma S. Kurnaz (Turkey). The winner for the best poster was Alena Bachratá (Slovakia). Awarded scientists will be Invited Speakers at the 2014 edition of LinStat that will be held in Linköping (Sweden).



Young Scientists Awards ceremony: (from the left) Jolanta Pielaszkiewicz, Dietrich von Rosen, Fatma S. Kurnaz, Simo Puntanen, Alena Bachratá, Maryna Prus and Augustyn Markiewicz

Special issues of *Communications in Statistics – Theory and Methods*, *Communications in Statistics – Simulation and Computation*, and *Discussiones Mathematicae – Probability and Statistics* will be devoted to LinStat'2012 and the 21st IWMS with selected papers strongly related with the presentations given at the conferences.

The participants shared the common opinion that the conference was extremely fruitful and well organized with friendly and warm atmosphere. The list of the participants of LinStat'2012 and the 21st IWMS, abstracts of the talks and posters, the gallery of photographs, and the other information can be found at <http://linstat2012.au.poznan.pl>.