

CONFERENCE REPORTS

27th International Workshop on Matrices and Statistics Shanghai, China, June 6–9, 2019

Report by Jeffrey J. Hunter

The 27th International Workshop on Matrices and Statistics (IWMS-2019) was held at the Shanghai University of International Business and Economics (SUIBE) Gubei Campus, Shanghai, China, over the period of June 6–9, 2019. The International Organising Committee (IOC) was chaired by Jeffrey J. Hunter (New Zealand), and included Dietrich von Rosen (Sweden) as Vice-Chair, George P.H. Styan (Canada) as Honorary Chair, S. Ejaz Ahmed (Canada), Francisco Carvalho (Portugal), Katarzyna Filipiak (Poland), Daniel Klein (Slovakia), Augustyn Markiewicz (Poland), Simo Puntanen (Finland), Julia Volaufova (USA) and Hans Joachim Werner (Germany). The Local Organising Committee was chaired by Yonghui Liu (Chair) and assisted by Hui Liu (Vice-Chair), Chengcheng Hao and Cihai Sun.



Participants of the 27th International Workshop on Matrices and Statistics

The invited plenary presentations (in alphabetical order) were: Oskar Maria Baksalary (Adam Mickiewicz University in Poznan, Poland) *A gaze at recent applications and characterizations of the Moore-Penrose inverse*; Rajendra Bhatia (Ashoka University, New Delhi, India) *Geometry and means of positive definite matrices*; Kai-Tai Fang (BNU-HKBU United International College, China) *Representative points of elliptically symmetric distributions*; Shuangzhe Liu (University of Canberra, Australia) *Professor Heinz Neudecker and matrix differential calculus*; Jianxin Pan (Manchester University, United Kingdom) *Calibration for non-positive definite covariance matrix*; K. Manjunatha Prasad (Manipal Academy of Higher Education, Manipal, India) *Inverse complimentary matrix method and its applications to general linear model*; Yongge Tian (Central University of Finance and Economics, Beijing, China) *Identifying conditions for multilinear matrix equations to always hold with applications*; Fuzhen Zhang (Nova Southeastern University, Fort Lauderdale, USA) *Inequalities for selected eigenvalues of the product of matrices*; Shurong Zheng (Northeast Normal University, Changchun, Jilin, China) *Statistical inference on high-dimensional covariance matrices*; Lixing Zhu (Hong Kong Baptist University, Hong Kong, China) *Order determination for large-dimensional matrices*.

Besides the plenary sessions, the workshop program contained six mini-symposia and two contributed sessions. The mini-symposia and their organisers were as follows: MS1. Experimental Design (Kai-Tai Fang) MS2. Inference in Parametric Models (Julia Volaufova) MS3. Linear Models and Multivariate Analysis (Simo Puntanen) MS4. Predictive Modelling and Diagnostics (Shuangzhe Liu) MS5. Decompositions of Tensor Spaces with Applications to Multilinear Models (Dietrich von Rosen) MS6. Statistical Modelling for Complex Data (Rui Li).

In addition, the Workshop incorporated the 4th International Mini-Symposium on “Magic squares, prime numbers and postage stamps,” organised by George Styan. The main contribution was a poster “An introduction to some magic squares by Paul Daniels and by Steve Martin, and to the Kostabi/Leigh Bereshit bara Elohim drawing Nova Ratio for Pope Emeritus Benedict XVI, all illustrated philatelically” by Ka Lok Chu, Simo Puntanen and George Styan.

The workshop had confirmed participation from 12 countries, with 26 participants from overseas and 43 from mainland China, for a total of 69 participants. Registration for the workshop was held on the afternoon of Wednesday, June 5

at the Lobby of the Brawway Hotel, followed by a Welcome Dinner at the Zhuang Yuan Lou Restaurant. Additional registrations were handled the morning of Thursday, June 6 at the workshop venue on the campus of SUIBE, prior to the formal opening ceremony which included a speech from Yonglin Xu (Vice President, SUIBE). This was followed by a photo session. Lunch and dinner were provided for all participants each day at the workshop venue. The workshop banquet was held on Friday evening at the Zhuang Yuan Lou Restaurant. The workshop closed just before lunch on Sunday, June 9.

The website for IWMS-2019 is: <http://www.suibe.edu.cn/ttxy/iwms2019>

8th International Conference on Matrix Analysis and Applications (ICMAA 2019) University of Nevada, Reno, USA, July 15–18, 2019

Report by Tin-Yau Tam, Qing-Wen Wang, and Fuzhen Zhang

The 8th International Conference on Matrix Analysis and Applications (ICMAA 2019) took place July 15–18, 2019 at the University of Nevada, Reno (UNR), Nevada, USA. Organized by Tin-Yau Tam, Qing-Wen Wang and Fuzhen Zhang, the meeting aimed to stimulate research and interaction of mathematicians in all aspects of linear and multilinear algebra, matrix analysis, graph theory, and their applications and to provide an opportunity for researchers to exchange ideas. There were 60 participants from 10 countries, and 38 talks. The keynote speaker was Lek-Heng Lim of the University of Chicago, USA and the two plenary speakers were Shaun Fallat of the University of Regina, Canada and Shmuel Friedland of the University of Illinois at Chicago, USA. The meeting was generously supported by the International Linear Algebra Society, as well as by the Office of Research and Innovation, the College of Science, and the Department of Mathematics and Statistics of UNR.



Group photo from ICMAA 2019

The previous ICMAA conferences were held in China (Beijing, Hangzhou), the United States (Nova Southeastern University), Turkey (Selçuk University, Konya), Vietnam (Duy Tan University, Da Nang), and Japan (Shinshu University, Nagano Prefecture). The next two conferences will be held at the University of Aveiro, Portugal (June 18–20, 2020) and Yunnan University, Yunnan, China (July 23–26, 2021). When the time comes, more information will be announced via ILAS-NET.

International Conference on Matrix Analysis and its Applications (MAT-TRIAD 2019) Liblice, Czech Republic, September 8–13, 2019

Report by Milan Hladík and Miroslav Rozložník

The 8th international conference on Matrix Analysis and its Applications, MAT-TRIAD 2019, was held September 8–13, 2019 in Liblice (about 40 km from Prague) at the Conference Center of the Czech Academy of Sciences. MAT-TRIAD