

## Saturday Morning, November 10

Room: RM #20, 3<sup>rd</sup> Floor, Conference Hall

Time	Schedule	
8:00am-8:15am	Opening Ceremony	
<b>Keynote Presentation</b>		
Time: 8:15am – 9:45am Chair: Ke Deng, Tsinghua University		
Time	Speaker	Title
8:15am–9:00am	<b>Jun Liu</b> Harvard University Tsinghua University	<i>Neuronized prior for Bayesian sparse inference</i>
9:00am–9:45am	<b>Wing Kam Fung</b> University of Hong Kong	<i>Efficient Monte Carlo evaluation of resampling based hypothesis tests</i>
9:45am–10:05am	<b>Tea Break</b>	
<b>Keynote Presentation</b>		
Time: 10:05am – 11:35am Chair: Philip L.H. Yu, University of Hong Kong		
Time	Speaker	Title
10:05am–10:50am	<b>Fang Yao</b> University of Toronto Peking University	<i>Intrinsic Riemannian functional data analysis</i>
10:50am–11:35am	<b>Donald B. Rubin</b> Tsinghua University Harvard University	<i>Illustrating two distinct contributions of modern computing to statistics</i>
11:35am–11:45am	<b>Award for Consultative Committee of CASC</b>	
11:45am–12:00am	<b>Group Photo</b> 1 <sup>st</sup> Floor, Conference Hall	
12:00am–1:30pm	<b>Lunch &amp; Board Lunch Meeting of IASC-ARS</b> 1 <sup>st</sup> Floor, Building #6	

<b>Saturday Afternoon, November 10</b>		
<b>Parallel Invited Session A1: Recent Development in Time Series</b>		
Time: 1:30pm–3:10pm Chair: Guodong Li, University of Hong Kong Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Chun Yip Yau</b> Chinese University of Hong Kong	<i>Asymptotically constant risk estimator of the time-average variance constant</i>
1:55pm–2:20pm	<b>Qianqian Zhu</b> Shanghai University of Finance and Economics	<i>Quantile double autoregression</i>
2:20pm -2:45pm	<b>Chen Wang</b> University of Hong Kong	<i>Alternative asymptotics for cointegration tests in large VARs</i>
2:45pm -3:10pm	<b>Shaojun Guo</b> Renmin University of China	<i>A general theory of large-scale curve time series</i>
<b>Parallel Invited Session A2: YS-ISI Invited Session</b>		
Time: 1:30pm–3:10pm Chair: Hanming Wu, National Taipei University Room: RM #20, 3 <sup>rd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Hanzhong Liu</b> Tsinghua University	<i>Lasso adjustments of treatment effect estimates in randomized experiments</i>
1:55pm–2:20pm	<b>Haruto Mura</b> Tokyo University of Science	<i>Holonomic properties and recurrence formula for the distribution of sample correlation coefficient</i>
2:20pm -2:45pm	<b>Jongho Im</b> Yonsei University	<i>Imputation approach for two-phase sampling design</i>
2:45pm -3:10pm	<b>Hanming Wu</b> National Taipei University	<i>Matrix visualization: A review and perspective</i>
<b>Parallel Invited Session A3: Statistical Analysis of Complex Data</b>		
Time: 1:30pm–3:10pm Chair: Changliang Zou, Nankai University Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Xuejun Jiang</b> Southern University of Science and Technology	<i>Spatial distribution of the earthquake in mainland China</i>

1:55pm–2:20pm	<b>Guochang Wang</b> Jinan University	<i>New HSIC-based tests for independence between two stationary multivariate time series</i>
2:20pm–2:45pm	<b>Wei Zhong</b> Xiamen University	<i>Feature screening for Interval-valued data and its application to text mining in online labor markets</i>
2:45pm –3:10pm	<b>Yan Zhou</b> Shenzhen University	<i>A statistical normalization method and differential expression analysis for RNA-seq data between different species</i>
<b>Parallel Session A4: Computing and Analysis of Network Data and High Dimensional Data</b>		
Time: 1:30pm–3:10pm Chair: Jianxin Yin, Renmin University of China Room: RM #16, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Weidong Liu</b> Shanghai Jiao Tong University	<i>Quantile regression under memory constraint</i>
1:55pm–2:20pm	<b>Xiaoling Lv</b> Renmin University of China	<i>Business analytics for stochastic bike-sharing network design</i>
2:20pm -2:45pm	<b>Jin Zhu Jia</b> Peking University	<i>Focused generalized method of moments for high dimensional causal structure learning</i>
2:45pm -3:10pm	<b>Xiangyu Luo</b> Renmin University of China	<i>Nonparametric Bayesian learning of heterogeneous dynamic transcription factor networks</i>
<b>Tea Break</b>		
<b>Parallel Invited Session B1: Modeling and Analysis of Complex Biomedical Data</b>		
Time: 3:30pm–5:35pm Chair: Donguk Kim, SungKyunKwan University Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm–3:55pm	<b>Sangwook Kang</b> Yonsei University	<i>Model checking methods for semiparametric accelerated failure time models</i>
3:55pm–4:20pm	<b>Sangbum Choi and Xuelin Huang</b> Korea University	<i>Doubly-robust estimation of optimal dynamic treatment rules for discrete outcomes</i>
4:20pm–4:45pm	<b>Keunbaik Lee</b> SungKyunKwan University	<i>Multivariate linear models for multivariate longitudinal data</i>

4:45pm–5:10pm	<b>Minsun Song</b> Sookmyung Women's University	<i>Genetic association tests incorporating gene-environment interactions on imputed genotype data</i>
5:10pm–5:35pm	<b>Chunlin Ji</b> Shenzhen Kuang-Chi Institute of Advanced Technology	<i>Statistical modelling for complex curves in industrial design</i>
<b>Parallel Invited Session B2: Reliability Statistics With Applications</b>		
Time: 3:30pm–5:35pm Chair: Peng Zhao, Jiangsu Normal University Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm–3:55pm	<b>Gaofeng Da</b> Nanjing University of Aeronautics and Astronautics	<i>On computation of system signatures</i>
3:55pm–4:20pm	<b>Zhouping Li</b> Lanzhou University	<i>Simultaneous estimation for the Weibull distributions</i>
4:20pm–4:45pm	<b>Jianbo Li</b> Jiangsu Normal University	<i>Risk-adjusted monitoring of surgical performance</i>
4:45pm–5:10pm	<b>Rui Fang</b> Shantou University	<i>Active redundancy allocation for coherent systems with independent and heterogeneous components</i>
5:10pm–5:35pm	<b>Lei Wang</b> Ping An Technology Co., Ltd.	<i>Opportunities and Challenges in Computational Statistics in the Age of Artificial Intelligence: Industrial Perspectives</i>
<b>Parallel Invited Session B3: Complex Time Series Analysis</b>		
Time: 3:30pm–5:35pm Chair: Wai Keung Li, University of Hong Kong Room: RM #20, 3 <sup>rd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm–3:55pm	<b>Philip L.H. Yu</b> University of Hong Kong	<i>Smooth buffered autoregressive time series models</i>
3:55pm–4:20pm	<b>Guodong Li</b> University of Hong Kong	<i>Multilinear low-rank vector autoregressive modeling via tensor decomposition</i>
4:20pm–4:45pm	<b>Ke Zhu</b> University of Hong Kong	<i>Statistical inference for autoregressive models under heteroscedasticity of unknown form</i>
4:45pm–5:10pm	<b>Wai Keung Li</b> University of Hong Kong	<i>On some time series models for realized volatility matrices</i>
5:10pm–5:35pm	<b>Hongxia Yang</b> Alibaba Group	<i>Extremely large scale graph representation learning in practice</i>

Parallel Session B4: Student Speed Presentation		
Time: 3:30pm–5:15pm Chair: Dong Li, Tsinghua University Room: RM #16, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm -3:45pm	<b>Jingbo Meng</b> Northeast Normal University	<i>A novel association test for rare variants based on algebraic statistics</i>
3:45pm -4:00pm	<b>Haojie Ren</b> Nankai University	<i>High-dimensional surveillance via pattern-oriented-sampling</i>
4:00pm -4:15pm	<b>Chong Chen</b> Peking University	<i>scRMD: Imputation for single cell RNA-seq data via robust matrix decomposition</i>
4:15pm -4:30pm	<b>Wei Wang</b> Renmin University of China	<i>Different protein-protein interface patterns predicted by different machine learning methods</i>
4:30pm–4:45pm	<b>Yuanyuan Zhang</b> Tsinghua University	<i>Two-step estimation for time varying ARCH models</i>
4:45pm-5:00pm	<b>Yichao Li</b> Tsinghua University	<i>Simultaneous topology and loss tomography via a theme dictionary model</i>
5:00pm-5:15pm	<b>Feifei Chen</b> Renmin University of China	<i>On some characterizations of, and multidimensional criteria for testing homogeneity, symmetry and independence</i>
5:45pm – 8:00pm	<b>Distinguished Service Award Presentation Ceremony and Banquet</b> 1 <sup>st</sup> floor, Banquet Hall	

<b>Sunday Morning, November 11</b>		
<b>Parallel Invited Session C1: Spatial Autoregression and Bayesian Modeling</b>		
Time: 8:30am -10:10am Chairs: Xiangyu Chang, Xi'an Jiaotong University Junni Zhang, Peking University Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
8:30am -8:55am	<b>Xuening Zhu</b> Fudan University	<i>Multivariate spatial autoregression for large scale social networks</i>
8:55am -9:20am	<b>Shiyuan He</b> Renmin University of China	<i>Period estimation for long period mirasvia stochastic variational</i>
9:20am -9:45am	<b>Yingying Ma</b> Beihang University	<i>Spatio-temporal autoregressions</i>
9:45am -10:10am	<b>Junni Zhang</b> Peking University	<i>Bayesian estimation of the general probability of informed trading model</i>
<b>Parallel Invited Session C2: New Statistical Learning Approaches</b>		
Time: 8:30am -10:10am Chair: Jialiang Li, National University of Singapore Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
8:30am -8:55am	<b>Liming Xiang</b> Nanyang Technological University	<i>Frailty mean residual life regression for survival data from multi-center clinical trials</i>
8:55am -9:20am	<b>Chaolong Wang</b> Genome Institute of Singapore	<i>Gene-based rare variant association tests for ancestry-matched case-control data</i>
9:20am -9:45am	<b>Binyan Jiang</b> Hong Kong Polytechnic University	<i>Entropy learning for dynamic treatment regimes</i>
<b>Parallel Invited Session C3: Statistical Computing and Distribution Theory</b>		
Time: 8:30am -10:10am Chair: Shigekazu Nakagawa, Okayama University of Science Room: RM #16, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
8:30am -8:55am	<b>Patrick J.F. Groenen</b> Erasmus University Rotterdam	<i>Hierarchical clustering through penalized k-means clustering</i>

8:55am -9:20am	<b>Shigekazu Nakagawa</b> Okayama University of Science	<i>New omnibus test for normality based on a moment ratio</i>
9:20am -9:45am	<b>Koki Shimizu</b> Tokyo University of science	<i>Approximate distributions of eigenvalues of singular Wishart matrix</i>
9:45am -10:10am	<b>Aya Shinozaki</b> Tokyo University of Science	<i>Numerical computation for the distribution of the largest eigenvalue under elliptical model</i>
10:10am–10:30am	<b>Tea Break</b>	
<b>Parallel Invited Session D1: Statistical Computing and High Dimensional Data Analysis</b>		
Time: 10:30am -12:10am Chair: Wensheng Zhu, Northeast Normal University Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
10:30am– 10:55am	<b>Ping-Feng Xu</b> Changchun University of Technology	<i>An improved RFCL algorithm by recursive decomposition for learning high-dimensional directed acyclic graphs with latent variables</i>
10:55am– 11:20am	<b>Wei Huang</b> Northeast Normal University	<i>Two way factor model for analyzing high dimensional matrix data</i>
11:20am– 11:45am	<b>Xiaofei Wang</b> Northeast Normal University	<i>Paralinear distance and its algorithm for hierarchical clustering of high-dimensional discrete variables</i>
11:45am– 12:10am	<b>Jiaqi Chen</b> Harbin Institute of Technology	<i>Testing high-dimensional covariance matrices under the elliptical distribution and beyond</i>
<b>Parallel Invited Session D2: New Statistical Prediction Approaches</b>		
Time: 10:30am -12:10am Chair: Jialiang Li, National University of Singapore Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
10:30am– 10:55am	<b>Lei Huang</b> Southeast Jiaotong University	<i>A novel partial-linear single-index model for time series data</i>
10:55am– 11:20am	<b>Tao Huang</b> Shanghai University of Finance and Economics	<i>Identifying latent group structures in varying-coefficient panel data model based on community detection</i>

11:20am– 11:45am	<b>Xiaochao Xia</b> Huazhong Agricultural University	<i>Varying-coefficient semiparametric model averaging prediction</i>
<b>Parallel Invited Session D3: Machine Learning and Statistical Modeling</b>		
Time: 10:30am -12:10am Organizer: Ray-Bing Chen, National Cheng-Kung University Chair: Ying Chen, National University of Singapore Room: RM #16, 2 <sup>nd</sup> Floor, Conference Hall		
<b>Time</b>	<b>Speaker</b>	<b>Title</b>
10:30am– 10:55am	<b>Ray-Bing Chen</b> National Cheng-Kung University	<i>Greedy active learning algorithm for logistic regression models</i>
10:55am– 11:20am	<b>Xiuqin Xu</b> National University of Singapore	<i>Augmented CNN with FAR model with application to day-ahead forecasting of natural gas flow in Germany</i>
11:20am– 11:45am	<b>Jiejie Zhang</b> National University of Singapore	<i>Modeling seasonality and serial dependence of electricity price curves with warping functional autoregressive dynamics</i>
11:45am– 12:10am	<b>Fanghong Zhang</b> Novartis Pharma K. K.	<i>Bayesian sample size calculation methods for single arm clinical trials with binary endpoint</i>
12:10am– 1:30pm	<b>Lunch</b> 1 <sup>st</sup> Floor, Building #6	



Sunday Afternoon, November 11		
<b>Parallel Invited Session E1: Robust Inference and High Dimensional Data Analysis</b>		
Time: 1:30pm–3:10pm Chair: Su-Yun Huang, Institute of Statistical Science, Academia Sinica Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Tsung-Shan Tsou</b> National Central University	<i>Robust likelihood inference for diagnostic accuracy measures for paired organs</i>
1:55pm–2: 20p.m.	<b>Su-Yun Huang</b> Academia Sinica	<i>Integrating multiple random sketches for sufficient dimension reduction with geometric algorithm</i>
2:20pm–2:45pm	<b>Chen-Hung Kao</b> Academia Sinica	<i>A permutation algorithm to compute the thresholds for assessing the significance of QTL hotspots</i>
<b>Parallel Invited Session E2: Recent Developments Sufficient Dimension Reduction</b>		
Time: 1:30pm–3:10pm Chair: Yingcun Xia, National University of Singapore Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Liping Zhu</b> Renmin University of China	<i>Online dimension reduction through sliced reverse regression</i>
1:55pm–2: 20pm	<b>Qian Lin</b> Tsinghua University	<i>Sparse SIR via Lasso</i>
2:20pm–2:45pm	<b>Yu Zhou</b> East China Normal University	<i>Weighted inverse regression ensemble for dimension reduction and variable selection</i>
<b>Parallel Invited Session E3: Recent Development in Bioinformatics and Statistical Genetics</b>		
Time: 1:30pm–3:10pm Chair: Ruibin Xi, Peking University Room: RM #16, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
1:30pm–1:55pm	<b>Shihua Zhang</b> Academy of Mathematics and Systems Science, CAS	<i>PBLR: an accurate single-cell RNA-seq data imputation tool</i>
1:55pm–2: 20pm	<b>Yong Wang</b> Academy of Mathematics and Systems Science, CAS	<i>Model based gene regulatory network inference</i>
2:20pm–2:45pm	<b>Zhonghua Liu</b> University of Hong Kong	<i>Large-scale mediation effect signal detection in genome-wide epigenetic studies</i>

2:45pm–3:10pm	<b>Wei Chen</b> North China University of Science and Technology	<i>Pseudo K-tuple nucleotide composition (PseKNC) and its applications in computational genomics</i>
3:10pm–3:30pm	<b>Tea Break</b>	
<b>Parallel Invited Session F1: Statistics Education / Methodology</b>		
Time: 3:30pm–5:10pm Chair: Jung Jin Lee, Soongsil University Room: RM #13, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm–3:55pm	<b>Jung Jin Lee</b> Soongsil University	<i>Teaching data science for 4–9th students with online SW eStat</i>
3:55pm–4:20pm	<b>Dae Heung Jang</b> Pukyung National University	<i>Teaching university students with mobile SW eStatU</i>
4:20pm–4:45pm	<b>Young Il Kim</b> Chung Ang University	<i>Cluster based diagnostics for predictive modeling</i>
<b>Parallel Invited Session F2: Extension and Efficiency in Statistical Computing</b>		
Time: 3:30pm–5:10pm Chair: Yuichi Mori, Okayama University of Science Room: RM #15, 2 <sup>nd</sup> Floor, Conference Hall		
Time	Speaker	Title
3:30pm–3:55pm	<b>Jinfang Wang</b> Yokohama City University	<i>Proving statistical conditional independence through computing</i>
3:55pm–4:20pm	<b>Shuheh Mano</b> The Institute of Statistical Mathematics	<i>Direct sequential sampler with holonomic gradient method</i>
4:20pm–4:45pm	<b>Masahiro Kuroda</b> Okayama University of Science	<i>Speed-up of bootstrap computation to incomplete data</i>
4:45pm–5:10pm	<b>Tomoaki Nakatani</b> Yokohama City University	<i>Comments and Discussions on Extension and Efficiency for Statistical Computing</i>
5:10pm – 5:20pm	<b>Closing Ceremony</b> RM #16, 2 <sup>nd</sup> Floor, Conference Hall	