PROGRAM SCHEDULE

EAC-ISBA Conference 2024

https://www.eduhk.hk/eac-isba2024/

The Education University of Hong Kong

25 -26 June 2024

Supported by:

香港教育大學 The Education University of Hong Kong
EdUHK 30th Anniversary 教大三十周年

FACULTY OF LIBERAL ARTS AND SOCIAL SCIENCES 博文及社會科學學院

Organised by:

Department of Mathematics and Information Technology

ISBA EAC-ISBA2024 @ EdUHK

The Education University of Hong Kong
Tai Po Campus
香港教育大學大埔校園

D3-LP-01
D3-LP-03
D3-LP-02
D2-LP-11
D2-LP-12
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D2-LP-P1
D2-LP-01
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D3-LP-11A
C-LP-32
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C-LP-23
D1-LP-E1
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C-LP-11B
C-LP-07
C-LP-11A
Sound Booth C
C-LP-02
Cafe
Conference Rooms
Welcome Reception and Student Poster Session

GENERAL INFORMATION

REGISTRATION AND SOCIAL EVENTS

- The registration will be open on Tuesday 25th June at 08:30 outside D1-LP-03 (Block D1, LP Floor, Room 03).
- The coffee breaks will take place outside D1-LP-03. You must have your conference badge in order to attend the coffee breaks.
- Welcoming reception, Tuesday 25th June from 17:35-19:00 at C-LP-02. Conference registrants must bring their conference badge in order to attend the reception. A "Flour Doll Making" performance, provided by the Hong Kong Tourist Board, will also be held in C-LP-02.
- Conference dinner, Wednesday 26th June from 18:30-20:30 at Courtyard Hong Kong Sha-Tin (1 On Ping Street, Shatin New Territories). Participants are required to bring their dinner tickets to attend the conference dinner. A limited number of dinner tickets can also be purchased at the registration desk.

CONFERENCE ROOMS (see maps)

- The keynote speech will take place at D1-LP-03. Other rooms are on the same floor. Signages will be posted around for guidance. Please notice that D3-LP-15 will only be used on 25th June and D2-LP-13 will only be used on 26th June.

PRESENTATION INSTRUCTIONS

- The duration of each parallel session is one and a half hours. The conference rooms will be equipped with a PC and a computer projector. The session chairs should obtain copies of the talks on a USB stick before the session starts. Presenters must provide the session chair with the files for the presentation. This must be done at least ten minutes before each session. Chairs are requested to keep the sessions on schedule.

POSTERS

- A student poster session is scheduled at C-LP-02. The posters will be on display from 17:35-19:00 on 25th June. Authors are required to place their posters on the designated board during the morning coffee break and to remove them after the session.

INTERNET CONNECTION

- Participants from any eduroam-enabled institution can use the Eduroam service in order to obtain access to the Internet. For those without Eduroam access, a wireless Internet connection will be available on campus through Wi-Fi.HK via EdUHK.

TRANSPORTATION ARRANGEMENT

- The drop-off and meeting point for our shuttle bus is at D1-G/F. Due to limited capacity, seats will be offered on a first-come-first-served basis.
- The schedule of the shuttle bus is as follows,

Date	Meeting Time	Meeting Location	Route
25 Jun 2024 (Tue)	08:20	MTR University Station Exit A	From MTR University Station to EdUHK Campus
	19:00	D1-G/F	From EdUHK Campus to MTR University Station
26 Jun 2024 (Wed)	08:35	MTR University Station Exit A	From MTR University Station to EdUHK Campus
	17:45	D1-G/F	From EdUHK Campus to Courtyard Hong Kong Sha Tin
	20:45		From Courtyard Hong Kong Sha Tin to MTR University Station

MISCELLANEOUS

- Block C in the university campus houses several canteens and a Pacific Coffee outlet at C-LP.

Program Schedule

Format: Hybrid (In person + Zoom). All times are displayed in GMT + 8.

Day 1: 25 Jun 2024 (Tue)					
Time	**Event**				
9:30 – 9:50	Open Ceremony + Group Photo Taking				
9:50 – 10:50	Keynote Speech by Prof. Xiao-li Meng (D1-LP-03) Chairperson: Wai Keung Li Zoom ID: 942 5576 4175 Password: 449609				
10:50 – 11:20	Break				
	D1-LP-03 Zoom ID: 982 7940 0202 Password: eacisba	**D3-LP-15** Zoom ID: 915 3563 0285 Password: eacisba	**D2-LP-14** Zoom ID: 991 1415 8584 Password: eacisba	**D2-LP-18** Zoom ID: 979 0131 1407 Password: eacisba	**D3-LP-02** Zoom ID: 938 0542 9295 Password: eacisba
11:20 – 12:50	Invited Session #11 *Bayesian analysis with applications to clinical trials* Organizer: Y. Zhao Chairperson: Y. Zhao	Invited Session #26 *Bayesian methods for complicated data analysis* Organizer: Z. Ma Chairperson: Z. Ma	Invited Session #9 *Advances in Monte Carlo methods for Bayesian inference* Organizer: W. van den Boom Chairperson: C. Li	Invited Session #13 *Advances in Bayesian Joint Modeling* Organizer: X. Wang Chairperson: X. Wang	Invited Session #6 *Novel Bayesian computational methods for emerging data challenges* Organizer: F. Bu Chairperson: F. Bu
12:50 – 14:00	Lunch Break				
14:00 – 15:30	Invited Session #1 *Recent Advancements in Flexible Bayesian Models and Complex Statistical Models* Organizer: Y. Ni Chairperson: Y. Ni	Invited Session #19 *Bayesian Modeling in Social Science* Organizer: K. Kakamu Chairperson: K. Kakamu	Invited Session #16 *Advances in Censored Data, Proteomics, and Precision Medicine* Organizer: P. Yu Chairperson: A. Ling	Invited Session #10 *Recent advances in Bayesian modeling of spatial omics data* Organizer: Q. Li Chairperson: Q. Li	Invited Session #18 *Advances in Time Series Analysis* Organizer: W. Li Chairperson: W. Li
15:30 – 16:00	Break				
16:00 – 17:30	Invited Session #22 *Bayesian Analysis of Complex Data* Organizer: M. So Chairperson: X. Song	Invited Session #2 *Bayesian modelling with spatial information* Organizer: W. Zhu Chairperson: S. Wang	Invited Session #24 *Advances in Statistical Analysis with Bayesian Ideas* Organizer: A. Chu Chairperson: B. Choy	Invited Session #4 *Advanced Computing Methods in Spatial Statistics for Big Data* Organizer: Y. Niu Chairperson: J. Cao	Invited Session #15 *Bayesian Time Series Modeling and Inference* Organizer: P. Yu Chairperson: A. Wang
17:35 – 19:00	Student Poster Session and Welcoming Reception (C-LP-02)				

Day 2: 26 Jun 2024 (Wed)					
Time	**Events**				
9:30 – 10:30	Keynote Speech by Prof Toshiaki Watanabe (D1-LP-03) Chairperson: Mike Ka Pui So Zoom ID: 982 7940 0202 Password: eacisba				
10:30 – 11:00	Break				
	D1-LP-03 Zoom ID: 982 7940 0202 Password: eacisba	**D2-LP-13** Zoom ID: 915 3563 0285 Password: eacisba	**D2-LP-14** Zoom ID: 991 1415 8584 Password: eacisba	**D2-LP-18** Zoom ID: 979 0131 1407 Password: eacisba	**D3-LP-02** Zoom ID: 938 0542 9295 Password: eacisba
11:00 – 12:30	Invited Session #23 *Advances in Bayesian Inference* Organizer: M. So Chairperson: Y. Mori	Invited Session #7 *Advances in Computational Methods for Bayesian Statistical Learning* Organizer: Q. Zhou Chairperson: Q. Zhou	Invited Session #12 *Advances in Modeling Time-to-Event Data* Organizer: S. Pal Chairperson: S. Pal	Invited Session #8 *Applied nonparametric Bayesian advances in and beyond biomedical research* Organizer: X. Luo Chairperson: K. Kang	Invited Session #14 *New frontiers in Bayesian empirical likelihood and applications* Organizer: Y. Zhao Chairperson: Y. Zhao
12:30 – 14:00	Lunch Break				
14:00 – 15:30		Invited Session #20 *Bayesian Financial Econometrics* Organizer: M. So Chairperson: Y. Omori	Invited Session #17 *Advances in Factor Analysis and Generative AI* Organizer: P. Yu Chairperson: P. Yu	Contributed Session: *Bayesian Methods I* Chairperson: H. Zhang	Invited Session #5 *Recent Advances in Bayesian Computation for Complex Data* Organizer: C. Li Chairperson: C. Li
15:30 – 16:00	Break				
16:00 – 17:30		Invited Session #21 *Time Series Forecasting and High-dimensional Modeling* Organizer: M. So Chairperson: Y. Cai	Invited Session #3 *Bayesian Nonparametric and Semiparametric Modeling for Heterogeneous, High-dimensional and Censored Data* Organizer: X. Song Chairperson: J. Cai	Contributed Session: *Bayesian Methods II* Chairperson: A. Husnaqilati	Invited Session #25 *Network Analysis and its Applications* Organizer: A. Chu Chairperson: B. Cai
18:30 – 20:30	Conference Dinner				

Day 1: 25 June 2024 (Tue)	
Time	**Event**
9:30 – 9:50	**Opening Ceremony** **Room: D1-LP-03** • Welcome Message from President of EdUHK, Prof. LEE Chi Kin John • Welcome Message from Chairperson of EAC-ISBA, Prof. SO Ka Pui Mike • Welcome Message from Conference General Chair, Prof. YU Leung Ho Philip • Group Photo Taking
9:50 – 10:50	**Keynote Speech #1** **Room: D1-LP-03** *Keeping Probity in Probability: Imprecise Probability or Impossible Probability?* Prof. Xiao-Li MENG, Harvard University, US Chairperson: Wai Keung LI, The Education University of Hong Kong
10:50 – 11:20	Break
11:20 – 12:50	**Invited Session #11** **Room: D1-LP-03** *Bayesian analysis with applications to clinical trials* Organizer: Yichuan ZHAO, Georgia State University Chairperson: Yichuan ZHAO, Georgia State University • *Empirical Bayesian Approach for Response Adaptive Clinical Trial Design* Xuelin HUANG, University of Texas MD Anderson Cancer Center • *Bayesian sample size estimation* Yuan JI, University of Chicago • *An extended Bayesian semi-mechanistic dose-finding design in oncology using pharmacokinetic and pharmacodynamic information* Yisheng LI, University of Texas MD Anderson Cancer Center • *Effective sample size estimation based on the concordance between p-value and posterior probability of the null hypothesis* Guosheng YIN, The University of Hong Kong
	Invited Session #26 **Room: D3-LP-15** *Bayesian methods for complicated data analysis* Organizer: Zhihua MA, Shenzhen University Chairperson: Zhihua MA, Shenzhen University • *Analysis of Mixture Models with Yeo-Johnson Transformation* Jingheng CAI, Sun Yat-sen University • *Scalable Bayesian Multiple Change-point Detection via Auxiliary Uniformization* Shaochuan LU, Beijing Normal University • *Variational Bayesian Factor Analysis on 2D Image Data through High-dimensional Matrix Learning* Ran JIANG, The Hong Kong Polytechnic University • *Jump-size-based Bayesian Detection of Multiple Imperceptible Change-points with An Application to London House Price Index* Zhihua MA, Shenzhen University

	Invited Session #9 **Room: D2-LP-14** *Advances in Monte Carlo methods for Bayesian inference* Organizer: Willem VAN DEN BOOM, National University of Singapore Chairperson: Cheng LI, National University of Singapore • *MCMC with auxiliary variable* Guanyang WANG, Rutgers University–New Brunswick • *Doubly adaptive importance sampling* Andrea CREMASCHI, Agency for Science, Technology and Research • *Fast multivariate initial sequence estimators for MCMC* Dootika VATS, Institute of Technology, Kanpur • *Statistical inference for individual-based models of disease transmission* Jeremy HENG, ESSEC Business School
	Invited Session #13 **Room: D2-LP-18** *Advances in Bayesian Joint Modeling* Organizer: Xia WANG, University of Cincinnati Chairperson: Xia WANG, University of Cincinnati • *A Bayesian Joint Hierarchical Modeling Approach to Determining the Impact of Flavoring on the Addictiveness of Cigars* Xiaojing WANG, University of Connecticut • *Scalable Bayesian inference on high-dimensional multivariate linear regression* Xuan CAO, University of Cincinnati • *Bayesian Modeling and Inference for Item Response Model with Nonignorable Missing Data* Jing WU, University of Rhode Island • *Variable Selection in Zero-Inflated Poisson Regression Model* Xia WANG, University of Cincinnati
	Invited Session #6 **Room: D3-LP-02** *Novel Bayesian computational methods for emerging data challenges* Organizer: Fan BU, University of Michigan, Ann Arbor Chairperson: Fan BU, University of Michigan, Ann Arbor • *Statistical and Computational Trade-offs in Variational Inference: A Case Study in Inferential Model Selection* Yixin WANG, University of Michigan, Ann Arbor • *Geometry-driven Bayesian Inference for Ultrametric Covariance Matrices* Zhenke WU, University of Michigan, Ann Arbor • *Exact Bayesian Geostatistics Using Predictive Stacking* Lu ZHANG, University of Southern California
12:50 – 14:00	Lunch Break

14:00 – 15:30	**Invited Session #1** **Room: D1-LP-03** *Recent Advancements in Flexible Bayesian Models* Organiser: Yang NI, Texas A&M University Chairperson: Yang NI, Texas A&M University • *Bayesian biclustering and its application in education assessment data analysis* Guanyu HU, UT SPH • *Likelihood-free Gibbs Sequential Monte Carlo Sampling* Weixuan ZHU, Xiamen University • *Advancements in Online Learning for High-Dimensional Spatiotemporal Models* Ning NING, Texas A&M University
	Invited Session #19 **Room: D3-LP-15** *Bayesian Modeling in Social Science* Organizer: Kazuhiko KAKAMU, Nagoya City University Chairperson: Kazuhiko KAKAMU, Nagoya City University • *General Bayesian Quantile Regression of Count via Generative Modeling* Yuta YAMAUCHI, Nagoya University • *On estimating the decomposition of the income inequality measures* Yuki KAWAKUBO, Chiba University • *Bayesian model averaging for income distributions* Kazuhiko KAKAMU, Nagoya City University
	Invited Session #16 **Room: D2-LP-14** *Advances in Censored Data, Proteomics, and Precision Medicine* Organizer: Leung Ho Philip YU, The Education University of Hong Kong Chairperson: Alpha M.H. LING, The Education University of Hong Kong • *Efficient Bayesian inference for a defect rate based on completely censored data* Alpha M.H. LING, The Education University of Hong Kong • *Plasma proteomic profiles predict individual future health risk* Jason Jia YOU, Fudan University • *Personalized Feature Selection for Precision Medicine by Incorporating Knockoffs into Modern Machine Learning* Jiaqi GU, Stanford University

	Invited Session #10 **Room: D2-LP-18** *Recent advances in Bayesian modeling of spatial omics data* Organizer: Qiwei LI, The Chinese University of Hong Kong Chairperson: Qiwei LI, The Chinese University of Hong Kong • *Integrating spatial and single-cell transcriptomics data using deep generative models with SpatialScope* Can YANG, Hong Kong University of Science and Technology • *Generalized Bayesian nonparametric clustering of spatially resolved transcriptomics data* Bencong ZHU, The Chinese University of Hong Kong • *AI-powered Bayesian methods for spatial transcriptomics data analysis* Qiwei LI, The Chinese University of Hong Kong
	Invited Session #18 **Room: D3-LP-02** *Advances in Time Series Analysis* Organizer: Wai Keung LI, The Education University of Hong Kong Chairperson: Wai Keung LI, The Education University of Hong Kong • *Bayesian nonlinear expectation for time series modelling and its application to Bitcoin* Ken SIU, Macquarie University • *Factor modelling for matrix-variate functional time series in high dimensions* Zihan WANG, Tsinghua University • *Estimation for conditional moment models based on martingale difference divergence* Kunyang SONG, The University of Hong Kong
15:30 – 16:00	Break
16:00 – 17:30	**Invited Session #22** **Room: D1-LP-03** *Bayesian Analysis of Complex Data* Organizer: Mike Ka Pui SO, Hong Kong University of Science and Technology Chairperson: Xinyuan SONG, The Chinese University of Hong Kong • *Cutting Feedback in misspecified copula models* David NOTT, National University of Singapore • *Integration of textual and quantitative responses in multidimensional item response theory* Thomas Wing Chun CHAN, Hong Kong University of Science and Technology • *Bayesian joint modeling of longitudinal imaging and survival data* Xinyuan SONG, The Chinese University of Hong Kong

	Invited Session #2 **Room: D3-LP-15** *Bayesian modelling with spatial information* Organizer: Weixuan ZHU, Xiamen University Chairperson: Shijia WANG, ShanghaiTech University • *Bayesian integrative region segmentation in spatially resolved transcriptomic studies* Xiangyu LUO, Renmin University of China • *Spatial Clustering for Spatial Transcriptomics Data* Yang NI, Texas A&M University • *Bayesian analysis of a threshold spatial panel model with multiple spillover channels* Xiaoyi HAN, Xiamen University • *Accelerating approximate Bayesian computing for complex data* Shijia WANG, ShanghaiTech University
	Invited Session #24 **Room: D2-LP-14** *Advances in Statistical Analysis with Bayesian Ideas* Organizer: Amanda Man Ying CHU, The Education University of Hong Kong Chairperson: Boris CHOY, The University of Sydney • *On "sandwich" variance estimation: Bayesian versus Frequentist* Chor-Yiu SIN, National Tsing Hua University • *Bayesian Estimate of the Buffed Stochastic Volatility Model* Ka Fai Cedric YIU, Hong Kong Polytechnic University • *Null Hypothesis Significance Test, p-Value, A Priori Procedure and Gain-Probability Diagram* Boris CHOY, The University of Sydney
	Invited Session #4 **Room: D2-LP-18** *Advanced Computing Methods in Spatial Statistics for Big Data* Organizer: Yabo NIU, University of Houston Chairperson: Jian CAO, University of Houston • *Linear-Cost Vecchia Approximation of Multivariate Normal Probabilities* Jian CAO, University of Houston • *MPCR: An R Package for Multi- and Mixed-Precision Computational Statistics* Mary Lai SALVANA, University of Connecticut • *A Bayesian Nonstationary Model for Spatial Binary Data with Application to Characterizing Surface Marine Heatwaves* Bohai ZHANG, BNU-HKBU United International College • *New Methods for Fitting Hawkes Models with Large Data* Conor KRESIN, University of Otago

	Invited Session #15 **Room: D3-LP-02** *Bayesian Time Series Modeling and Inference* Organizer: Leung Ho Philip YU, The Education University of Hong Kong Chairperson: Anita Xiaohang WANG, Shenzhen Technology University • *Coherent Forecast and Criminal Justice Program Evaluation in Hierarchical Time Series* Thomas FUNG, Macquarie University • *The Constrained Matrix Autoregressive Time Series and Economic Applications* Elaine Ling XIN, BNU-HKBU United International College • *Mixture of Gaussian Bayesian Temporal Factorization Model* Anita Xiaohang WANG, Shenzhen Technology University
17:35 – 19:00	**Student Poster Session and Welcoming Reception** **Room: C-LP-02** • *Bayesian Nonparametric Clustering with Feature Selection for Spatially Resolved Transcriptomics Data* Bencong ZHU, The Chinese University of Hong Kong • *Encoding Recurrence into Transformers* Yuxi CAI, The University of Hong Kong • *Matrix models for high-dimensional time series analysis* Dorothy Kam Hin CHUNG, The Hong Kong Polytechnic University • *Ratings of players by Laplace approximation and dynamic modelling* Hsuan-Fu HUA, National Chengchi University • *Estimation for conditional moment models based on martingale difference divergence* Kunyang SONG, The University of Hong Kong • *A correlated sampling scheme for boosting temporal consistency in diffusion models* Li Lan, The University of Hong Kong • *Dynamic Bayesian networks with conditional dynamics in edge addition and deletion* Lupe S. H. CHAN, Hong Kong University of Science and Technology • *Predicting Equity Premium with Option-Implied Lower Bound* Shuhua XIAO, City University of Hong Kong • *Regime Switching and Unspanned Macroeconomic Factors in the Yield Curve* Siyu BIE, City University of Hong Kong • *A Bayesian fine-mapping model using a continuous global-local shrinkage prior with applications in prostate cancer analysis* Xiang LI, The University of Hong Kong • *Joint Mixed Membership Modeling of Multivariate Longitudinal and Survival Data for Learning the Individualized Disease Progression* Yuyang HE, The Chinese University of Hong Kong

	• *Factor modelling for matrix-variate functional time series in high dimensions* Zihan WANG, Tsinghua University • *Investigating Machine Learning Methods for Survival Prediction with an Application to TCGA Breast Cancer Data* Ziyu WANG, The University of Hong Kong • *Integration of textual and quantitative responses in multidimensional item response theory* Wing Chun CHAN, University of Science and Technology
Day 2: 26 June 2024 (Wed)	
Time	**Event**
9:30 – 10:30	**Keynote Speech #2** **Room: D1-LP-03** *Bayesian Analysis of Long Memory and Roughness in Financial Volatility* Prof. Toshiaki WATANABE, Hitotsubashi University, Japan Chairperson: Mike Ka Pui SO, Hong Kong University of Science and Technology
10:30– 11:00	Break
11:00 – 12:30	**Invited Session #23** **Room: D1-LP-03** *Advances in Bayesian Inference* Organizer: Mike Ka Pui SO, Hong Kong University of Science and Technology Chairperson: Yuichi MORI, Okayama University of Science • *Semi-parametric local variable selection under misspecification* Michele GUINDANI, University of California • *Post Empirical Bayes Regression* Yu-Chang CHEN, National Taiwan University • *Bayesian approach to mixture models with missing data* Masahiro KURODA and Yuichi MORI, Okayama University of Science
	Invited Session #7 **Room: D2-LP-13** *Advances in Computational Methods for Bayesian Statistical Learning* Organizer: Quan ZHOU, Texas A&M University Chairperson: Quan ZHOU, Texas A&M University • *Sampling Methods for Bayesian Inference from Privatized Data* Nianqiao (Phyllis) JU, Purdue University • *Adapting to Model Complexity in Sequential Decision Making using Generalizations of Variational Bayes* Jeffrey NEGREA, University of Waterloo • *Shape-constrained inference for covariance function estimation* Stephen BERG, Pennsylvania State University • *Sampling Methods for Bayesian Neural Network Posterior* Abhishek ROY, University of California San Diego

	Invited Session #12 **Room: D2-LP-14** *Advances in Modeling Time-to-Event Data* Organizer: Suvra PAL, University of Texas at Arlington Chairperson: Suvra PAL, University of Texas at Arlington • *Bivariate Semi-Parametric Model: Bayesian Inference* Debasis KUNDU, Indian Institute of Technology Kanpur • *Bayesian Inference and Cure Rate Modeling for Event History Data* Panagiotis PAPASTAMOULIS, Athens University of Economics and Business • *Two Sample Bayesian Acceptance Sampling Plan* Deepak PRAJAPATI, Indian Institute of Management Lucknow • *Modeling Survival Data in the Presence of Cure* Suvra PAL, University of Texas at Arlington
	Invited Session #8 **Room: D2-LP-18** *Applied nonparametric Bayesian advances in and beyond biomedical research* Organizer: Xiangyu LUO, Renmin University of China Chairperson: Kai KANG, Sun Yat-sen University • *GPJM: Gaussian Process Joint Model for Integrative Analysis of Alzheimer's Disease* Kai KANG, Sun Yat-sen University • *Bayesian Inference of Gene Expression Dynamics in Alzheimer Brains* Shanjun MAO, Hunan University • *Functional Bayesian Additive Regression Trees with Shape Constraint* Jiahao CAO, Renmin University of China
	Invited Session #14 **Room: D3-LP-02** *New frontiers in Bayesian empirical likelihood and applications* Organizer: Yichuan ZHAO, Georgia State University Chairperson: Yichuan ZHAO, Georgia State University • *On an Empirical Likelihood-Based Solution to Approximate Bayesian Computation Problem* Sanjay CHAUDHURI, University of Nebraska-Lincoln • *Bayesian jackknife empirical likelihood for the error variance in linear regression models* Hongyan JIANG, Huaiyin Institute of Technology • *Bayesian Jackknife Empirical Likelihood-based Inference for Missing Data and Causal Inference Problems* Yichuan ZHAO, Georgia State University • *On mixed sampling under unidentified nonparametric models: Application to the transformation model* Chong ZHONG, Hong Kong Polytechnic University

12:30 – 14:00	Lunch Break
14:00 – 15:30	**Invited Session #20** **Room: D2-LP-13** Bayesian Financial Econometrics Organizer: Mike Ka Pui SO, Hong Kong University of Science and Technology Chairperson: Yasuhiro OMORI, The University of Tokyo • *Linkage GARCH Models* Manabu ASAI, Soka University • *Bayesian Semi-parametric financial risk forecasting incorporating multiple realized measures* Richard GERLACH, The University of Sydney • *Stochastic Volatility in Mean with Leverage* Yasuhiro OMORI, The University of Tokyo
	Invited Session #17 **Room: D2-LP-14** Advances in Factor Analysis and Generative AI Organizer: Philip Leung-Ho Yu, The Education University of Hong Kong Chairperson: Philip Leung-Ho Yu • *Choosing the number of factors in factor analysis with incomplete data via a novel hierarchical Bayesian information criterion* Jianhua ZHAO, Yunnan University of Economics and Finance • *Harnessing Multi-Modal Large Language Models for Advanced Reasoning* Jiahui GAO, Huawei Noah Ark Lab • *GIVE: Generative Instructional Video in Education* Leung Ho Philip YU, The Education University of Hong Kong
	Contributed Session #1 **Room: D2-LP-18** Bayesian Methods I Chairperson: Hongmei ZHANG, University of Memphis • *Flexible Bayesian Quantile Analysis of Residential Rental Rates* Arshad RAHMA, Indian Institute of Technology Kanpur • *Bayesian nonparametric model of marked Hawkes processes with application to earthquake occurrences* Hyotae KIM, Duke University • *Forecasting High-Dimensional Covariance Matrices Using High-Dimensional Principal Component Analysis* Takayuki MORIMOTO, Kwansei Gakuin University • *Comparing dependent Gaussian directed networks* Hongmei ZHANG, University of Memphis

	Invited Session #5 **Room: D3-LP-02** Recent Advances in Bayesian Computation for Complex Data Organizer: Cheng LI, National University of Singapore Chairperson: Cheng LI, National University of Singapore • *Variational Inference Based on A Subclass of Closed Skew Normal* Linda S. L. TAN, National University of Singapore • *Robust Bayesian Inference on Riemannian Submanifold* Rong TANG, Hong Kong University of Science and Technology • *Bayesian Causal Forest for Estimating Heterogeneous Treatment Effects in Survival Data* Jingyu HE, City University of Hong Kong
15:30 – 16:00	Break
16:00 – 17:30	**Invited Session #21** **Room: D2-LP-13** Time Series Forecasting and High-dimensional Modeling Organizer: Mike Ka Pui SO, Hong Kong University of Science and Technology Chairperson: Yuxi CAI, The University of Hong Kong • *Limit of second largest eigenvalue of factor models -- application to a components retention rule and industrial equi-correlation* Yohji AKAMA, Tohoku University • *Bayesian Forecasting of Bounded Poisson Distributed Time Series* Feng-Chi LIU, Feng-Chia University • *Encoding Recurrence into Transformers* Yuxi CAI, The University of Hong Kong
	Invited Session #3 **Room: D2-LP-14** Bayesian Nonparametric and Semiparametric Modeling for Heterogeneous, High-dimensional and Censored Data Organizer: Xinyuan SONG, The Chinese University of Hong Kong Chairperson: Jingheng CAI, Sun Yat-sen University • *Multilevel heterogeneous factor analysis models with Bayesian covariance lasso prior: Statistical inference and application* Junhao PAN, Sun Yat-sen University • *Robustify model fitting for two-part model within Bayesian semiparametric framework: Variational approach* Yemao XIA, Nanjing Forest University • *Deep neural network for nonlinear survival analysis with high-dimensional mixed-type variables* Deng PAN, Huazhong University of Science and Technology • *Bayesian transformation models with informative partly interval-censored data* Jingjing JIANG, Changchun University of Technology

	Contributed Session #2 **Room: D2-LP-18** Bayesian Methods II Chairperson: Atina HUSNAQILATI, Universitas Gadjah Mada • *Bayesian Causal Forests for Ordered Categorical Responses* Anna MORGAN, University of Texas at Austin • *A Default Bayesian Multiple Testing of Order-Restricted Proportions* Siva SIVAGANESAN, University of Cincinnati • *A Switching State-Space Transmission Model for Tracking Epidemics and Assessing Interventions* Jingxue FENG, Simon Fraser University • *Analysing Market Interdependence and Stability Through Correlation Coefficients During the COVID-19 Pandemic: A Comparative Study of Energy Sectors* Atina HUSNAQILATI, Universitas Gadjah Mada
	Invited Session #25 **Room: D3-LP-02** Network Analysis and its Applications Organizer: Amanda Man Ying CHU, The Education University of Hong Kong Chairperson: Biao CAI, City University of Hong Kong • *Dynamic Bayesian networks with conditional dynamics in edge addition and deletion* Lupe Shun Hin CHAN, Hong Kong University of Science and Technology • *Applications of Bayesian Networks in Assessing the Effects of Family Resilience on Caregiver Behavioral Problems, Depressive Symptoms, and Burdens* Stephen S.Y. CHANG, The Education University of Hong Kong • *Latent Network Structure Learning from High Dimensional Multivariate Point Processes* Biao CAI, City University of Hong Kong
18:30 – 20:30	Conference dinner