

Detailed Invited Sessions Schedule

July 24th AM (10:00-12:00)

Huaqing Jin, Tsinghua University

IS01: Modern Bayesian Methods for Structured and High-Dimensional Models

Room: Room 5th, 1st Floor, Science Building
Organizer: Jaeyong Lee
Chair: Jaeyong Lee

11:00 Provably Solving Inverse Problems with Diffusion Prior Through DDIM-Type Sampler
Yuchen Jiao, The Chinese University of Hong Kong

10:00 Challenges and Design Principles for Fast Bayesian Inference with Normalizing Flows
Won Chang, Seoul National University

IS18: Advances in Statistical Learning and Decision-Making for Complex Data

Room: Room 7th, 2nd Floor, Science Building
Organizer: Yanxun Xu
Chair: Yanxun Xu

10:30 Bayesian Donor Set Selection in Synthetic Control Method
Joungyoun Kim, University of Seoul

10:00 Action-Based Phylogenetic Likelihood Calculations for Large State-Space Models
Xiang Ji, Iowa State University

11:00 Posterior Contraction for Sparse Neural Networks in Besov Spaces with Intrinsic Dimensionality
Kyeongwon Lee, Inha University

10:30 High-Dimensional Bayesian Transfer Learning Through Skew Shrinkage Priors: Applications to Genetic and Electronic Health Records Data
Aki Nishimura, Johns Hopkins University

11:30 Conditional Dirichlet Processes and Functional Condition Models
Kwangmin Lee, Chonnam National University

11:00 Variational Bayes for Exponential Tilted Likelihood in Stationary Time Series Data
Jing Wu, University of Rhode Island

IS12: Bayesian Inference and Mathematical Guarantees for Generative and Latent-Variable Models

Room: Room 6th, 1st Floor, Science Building
Organizer: Rong Tang
Chair: Rong Tang

11:30 Robust Bayesian Learning for Optimal Decision Making Under Unmeasured Confounding
Yanxun Xu, Johns Hopkins University

10:00 A Preferential Latent Space Model for Text Networks
Biao Cai, City University of Hong Kong

IS04: Bayesian Methods in Unconventional Areas

10:30 Bayesian Inference of a Spectral Graph Model for Brain Oscillations

Room: Room 8th, 2nd Floor, Science Building
Organizer: Xiaodan Fan

Chair: Xiaodan Fan

10:00 A Bayesian Stratified Mallows
Model for Rank Aggregation
Han Li, Shenzhen University

10:30 A Bayesian Framework for
Multi-Scale Hierarchical Motif
Modeling and Its Application in
Immune Recognition
Ran Liu, Beijing Normal
University

11:00 Bayesian Updating Meta-Analysis
Jiandong Shi, The Chinese
University of Hong Kong

11:30 A Bayesian Approach for
Knockoffs with Annotation
Information
Lijun Wang, Zhejiang University

IS08: New Bayesian Approaches in Biomedical Studies

Room: Room 9th, 2nd Floor, Science Building
Organizer: Weining Shen
Chair: Weining Shen

10:00 Batch Effect Correction for
Heterogeneous DNA Methylation
Data Via Bayesian Hierarchical
Beta Mixtures
Xiangyu Luo, Renmin University
of China

10:30 Beyond a Single Biomarker:
Adaptive Enrichment Design with
Data-Driven Subgroup Rules
Juan Shen, Fudan University

11:00 MACHINE: A Robust
Multi-Ancestry Fine-Mapping
Method Using a Continuous
Shrinkage Prior
Yan Zhang, The University of
Hong Kong

IS16: Bayesian Learning and Computation

for Complex Data and Sequential Decision-Making

Room: Room 10th, 2nd Floor, Science
Building
Organizer: Li Ma
Chair: Li Ma

10:00 Accelerating Sequential Designs
with Provably Accurate Hilbert
Space Gaussian Processes
Cheng Li, National University of
Singapore

10:30 Hierarchical Modeling in Bayesian
Nonparametric Factor Analysis
Junyi Zhang, The Education
University of Hong Kong

11:00 Bayesian learning for longitudinal
imaging and survival data
Xinyuan Song, The Chinese
University of Hong Kong

IS09: Monte Carlo, Diffusion, and Flow Methods for Bayesian Inference

Room: Room 11th, 2nd Floor, Science
Building
Organizer: Cheng Li
Chair: Cheng Li

10:00 Provable Sample-Efficient Transfer
Learning Conditional Diffusion
Models via Representation
Learning
Cheng Zhang, Peking University

10:30 A Novel Framework Using
Variational Inference with
Normalizing Flows to Train
Transport Reversible Jump
Proposals
Xiyun Jiao, Southern University of
Science and Technology

11:00 Subsampling Metropolis–Hastings
for Moment-Condition-Based
Bayesian Inference

Rong Tang, Hong Kong University
of Science and Technology

Sheng Jiang, The Chinese
University of Hong Kong,
Shenzhen

11:30 Jump-Process Flow Matching for
High-Dimensional Count Data
Ganchao Wei, Duke University

14:00 Bayesian Data Integration in
Clinical Trials
Weining Shen, University of
California, Irvine

July 24th PM (13:30-15:30)

**IS03: Bayesian Modeling of Heterogeneous
Structures: from Mixtures to Metric Space
Regression**

Room: Room 5th, 1st Floor, Science Building
Organizer: Xinyuan Song
Chair: Xinyuan Song

14:30 Bayesian Quantile Regression for
Marked Temporal Point Processes
Xiaotian Zheng, University of
Georgia

**IS10: Recent Advances in Bayesian Theory
and Applications**

Room: Room 7th, 2nd Floor, Science Building
Organizer: Ke Deng
Chair: Junni Zhang

13:30 Bayesian Analysis of Mixture
Models with Yeo-Johnson
Transformation
Jingheng Cai, Sun Yat-Sen
University

13:30 Estimating COVID-19 Excess
Deaths During the Pandemic and
After: A New Bayesian Model,
With an Application to New
Zealand
Junni Zhang, Peking University

14:00 Bayesian Analysis of Frechet
Regression
Hefei Liu, Yunnan University of
Finance and Economics

14:30 Identifying the Outbreak
Mechanism of Animal Infectious
Diseases Using Time-to-event Data
Fangda Song, The Chinese
University of Hong Kong,
Shenzhen

14:00 BanditSIS: Adaptive Subsampling
for Scalable Feature Screening
Cheng Meng, Renmin University

15:00 Bayesian Tree-Based
Heterogeneous Mediation Analysis
with a Time-to-Event Outcome
Rongqian Sun, Shenzhen University

14:30 Data-Efficient Multi-Functional
Bayesian Optimization for
Automated Metamaterial Design
Yang Yang, East China Normal
University

IS19: Bayesian Modeling for Complex Data

Room: Room 6th, 1st Floor, Science Building
Organizer: Zehang Li
Chair: Sheng Jiang

**IS34: High-dimensional and Functional
Data Analysis**

Room: Room 8th, 2nd Floor, Science Building
Organizer: Guochang Wang
Chair: Qingzhi Zhong

13:30 Errors-in-Vriables Gaussian
Processes for Mixed-input
Regression

13:30 Hypothesis Testing in High
Dimensional Linear Regression via
Wild Bootstrapping
Wenjuan Hu, Capital University of
Economics and Business

14:00 Spatio-Temporal Stick-Breaking
Count Regressions
Miaojie Xia, Beijing University of
Technology

14:30 Hyper Inverse Wishart Process for
Dynamic Brain Functional
Connectivity
Wei Zhang, Beijing University of
Technology

15:00 High-Dimensional Multi-Study
Multi-Modality
Covariate-Augmented Generalized
Factor Model
Qingzhi Zhong, Jinan University

IS20: Scalable Bayesian and Statistical Learning for Complex Structured Data

Room: Room 9th, 2nd Floor, Science Building
Organizer: Jiangyan Zhao
Chair: Jiangyan Zhao

13:30 Functional Virtual Adversarial
Training for Semi-Supervised Time
Series Classification
Qingyi Pan, Tsinghua University

14:00 Bayesian Analysis of Nonlinear
Structured Latent Factor Models
with a Gaussian Process Prior
Xiaorui Wang, Nanjing University
of Information Science &
Technology

14:30 BKP: An R Package for Beta
Kernel Process Modeling
Jiangyan Zhao, East China Normal
University

15:00 Automated Landmark Discovery
Method for Integration of Spatial
Omics Data
Peng Sun, Shanghai University of
Engineering Science

IS14: Robust Bayesian and High-Dimensional Methods for Complex

Biomedical and Observational Data

Room: Room 10th, 2nd Floor, Science
Building

Organizer: Xia Wang

Chair: Xuan Cao

13:30 Scalable Bayesian Modeling of
Multimodal Psychiatric Biomarkers
and Brain Networks
Xuan Cao, University of Cincinnati

14:00 Consistent and Scalable Variable
Selection with Robust Link
Functions
Xia Wang, University of Cincinnati

14:30 Robust High-dimensional Inference
for Causal Effects Under
Unmeasured Confounding and
Invalid Instruments with an
Application to Multivariable
Mendelian Randomization Analysis
Yunan Wu, Tsinghua University

15:00 A Bayesian Multivariate Student-t
Degradation Model for Dependent
Log-Increments
I-Tang Yu, Tunghai University

IS31: Advances in Complex Data Analysis

Room: Room 11th, 2nd Floor, Science
Building

Organizer: Shaojun Guo

Chair: Shaojun Guo

10:00 The Factor Tree: A Data-Driven
Approach to Regime Switching in
High-Dimensions
Chenchen Ma, Chinese Academy of
Sciences

10:30 Adaptive Decentralized Federated
Learning for Robust Optimization
Shuyuan Wu, Shanghai University
of Finance and Economics

11:00 QPDA: Quasi-Poisson

Compositional Regression for
Differential Abundance Analysis
Huijuan Zhou, Shanghai University
of Finance and Economics

Methods with Sparse Convex Hull
Restriction and Gaussian Process
Junwoo Jo, Kyungpook National
University

July 24th PM (15:40-17:40)

**IS05: Advanced Models with Grouping
Learning for Omics Data**

Room: Room 5th, 1st Floor, Science Building
Organizer: Xiaodan Fan
Chair: Jiandong Shi

- 15:40 Gaussian Graphical Models Based
on scRNA-seq Data: Integration of
Homogeneity and Heterogeneity
Shanjun Mao, Hunan University
- 16:10 STTransfer: A Transfer
Learning-Enhanced GCN for
Spatial Transcriptomics Data
Chaojie Wang, Jiangsu University
- 16:40 DIHap: A Direct Bayesian Inference
Method of Haplotypes from
Sequencing Data
Zhen Zhang, The First Institute,
Kunming Institute of Physics
- 17:10 BISON: Bi-Clustering of Spatial
Omics Data with Feature Selection
Bencong Zhu, Shenzhen University

**IS22: Recent developments in Bayesian
inference for complex data models**

Room: Room 6th, 1st Floor, Science Building
Organizer: Gyuhyeong Goh
Chair: Gyuhyeong Goh

- 15:40 Eigenstructure Inference for
High-Dimensional Covariance with
Generalized Shrinkage
Inverse-Wishart Prior
Seongmin Kim, Ewha Womans
University
- 16:10 Fully Bayesian Synthetic Control

- 16:40 Bayesian Joint Modeling of
Longitudinal and Survival Data
with Heteroscedastic Covariance
Structures for Repeated Outcomes
Keunbaik Lee, Sungkyunkwan
University

**IS06: Bayesian Methods for Complex
Biomedical and Behavioral Data**

Room: Room 7th, 2nd Floor, Science Building
Organizer: Feng Li
Chair: Feng Li

- 15:40 Bayesian Information Borrowing
for (Ultra) High-Dimensional Brain
Connectivity Inference
Shufei Ge, ShanghaiTech
University
- 16:10 Deep Isometric Manifold
Embedding for Video Gestures
Feng Li, Peking University
- 16:40 Ball Impurity: Measuring
Heterogeneity in General Metric
Spaces
Wenliang Pan, Academy of
Mathematics and Systems Science,
CAS
- 17:10 Quantitative Analysis of Glucose
Metabolic Parameters via Dynamic
PET Imaging Using a
Segmentation-Driven Probabilistic
Graphical Model
Yalei Yang, Peking University
Cancer Hospital

**IS11: Bayesian Methods for Causal
Inference with Complex Survival Data**

Room: Room 8th, 2nd Floor, Science Building
Organizer: Liangyuan Hu

Chair: Jingheng Cai

15:40 Bayesian Structural Nested Failure Time Models for Causal Inference with Time-Varying Confounding and Survival Outcomes
Liangyuan Hu, Rutgers University

16:10 Bayesian inference for the Causal Hazard Ratio
Fan Li, Yale University

16:40 Bayesrare: Bayesian Mixture Model for Population-Level Rare Cell Type Detection in Multi-Subject Single-Cell RNA Sequencing Data
Yingqiao Yan, Beijing University of Technology

17:10 Bayesian Inference for Cluster-randomized Trials with Multivariate Outcomes Subject to Both Truncation by Death and Missingness
Guanyu Tong, Yale University

IS33: Modern Bayesian and Generative Learning Methods for Complex Data Analysis

Room: Room 9th, 2nd Floor, Science Building
Organizer: Puying Zhao
Chair: Puying Zhao

15:40 Seismic Missing Data Interpolation via Denoising Diffusion Implicit Models
Chunxia Zhang, Xi'an Jiaotong University

16:10 Extreme Risk Assessment of Earthquake Catastrophe Loss Based on Bayesian Dynamic Quantile Model Averaging
Yunxian Li, Yunnan University of Finance and Economics

16:40 Semiparametric Bayesian Model Averaging with Cluster Data for

Asset Pricing

Jiangcheng Li, Yunnan University of Finance and Economics

17:10 Variational Bayesian Estimation for Joint Models of Longitudinal and Survival Data with Random Change Point
Fengting Yi, Yunnan University

IS02: Bayesian Inference for Complex Structured Data

Room: Room 10th, 2nd Floor, Science Building

Organizer: Shijia Wang

Chair: Shijia Wang

15:40 Bayesian Forecast Combination with Predictive Priors via Particle Filtering
Yanfei Kang, Beihang University

16:10 Beyond Overall Diagnosis: A Longitudinal Multi-Domain Latent Structure Model for Domain-Specific Parkinson's Disease Progression
Kai Kang, Sun Yat-Sen University

16:40 A Delayed Acceptance Sequential Monte Carlo with Random Forests for Bayesian Phylogenetic Inference
Shijia Wang, ShanghaiTech University

17:10 Directed Network Discovery with Latent Variables: Identifiability and Estimation
Bin Lv, East China Normal University

IS28: Recent Advances in Statistical Inference with Complex Data Structures

Room: Room 11th, 2nd Floor, Science Building

Organizer: Long Feng

Chair: Long Feng

University

15:40 Change-Point Detection for
Dynamic Networks via DeepWalk
Dan Zhuang, Fujian Normal
University

**IS07: Bayesian Methods for Complex
Dynamics and Latent Structures: From
Survival and Sequential Data to
Educational Measurement**

16:10 Randomized Integrative Conformal
p-Values for Online Outlier
Detection
Yuanyuan Ju, Kunming University
of Science and Technology

Room: Room 6th, 1st Floor, Science Building
Organizer: Zhihua Ma
Chair: Zhihua Ma

16:40 Empirical Likelihood Meets
Prediction-Powered Inference
Mengtao Wen, Nankai University

10:00 Decomposition of WAIC for
Assessing the Information Gain
with Application to Educational
Testing
Fang Liu, Northeast Normal
University

17:10 A General Joint Modeling
Framework for Longitudinal and
Time-to-Event Data with Flexible
Random-Effects
Xifen Huang, Yunnan Normal
University

10:30 Robust Bayesian Change Point
Detection
Shaochuan Lv, Beijing Normal
University

July 25th AM (10:00-12:00)

11:00 Modeling Nonlinear Ability
Trajectories and Learner
Heterogeneity in Online Learning:
A Bayesian Nonparametric
Dynamic IRT Framework
Zhihua Ma, Shenzhen University

**IS17: Modern Bayesian Methods for
Complex Data and Learning**

Room: Room 5th, 1st Floor, Science Building
Organizer: Yuexi Wang
Chair: Yuexi Wang

11:30 On MCMC Mixing for Predictive
Inference Under Unidentified
Transformation Models
Chong Zhong, Hong Kong
Polytechnic University

10:00 Bayesian Smoothing and Feature
Selection via Variational Automatic
Relevance Determination
Feng Liang, University of Illinois
Urbana-Champaign

**IS24: Bayesian Theory, Networks, and
Privacy**

10:30 Noise as Lens and Lever in
Diffusion Models
Guanyang Wang, Rutgers
University

Room: Room 7th, 2nd Floor, Science Building
Organizer: Yeongjin Gwon
Chair: Bencong Zhu

11:00 A Bayesian Treed Partition Model
for Spatial Binary Data with
Application to Arctic Sea Ice
Dataset
Bohai Zhang, Beijing
Normal-Hong Kong Baptist

10:00 Topological Representations for
Latent Structure Learning on
Functional Brain Networks
Yuan Wang, University of South
Carolina

10:30 Hierarchical Bayesian
Nonparametrics Framework for
Evidence Synthesis Across
Federated Data Networks
Fan Bu, University of Michigan

11:00 On Inherent Privacy of Posterior
Sampling: A Unified
Renyi-Divergence Framework
Fang Liu, Notre Dame University

11:30 Factors or Fake? A New Look at
Anomalies
Lingxiao Zhao, Peking University

IS21: Structured Modeling and Shrinkage for Complex and Heterogeneous Data

Room: Room 8th, 2nd Floor, Science Building

Organizer: Meng Li

Chair: Meng Li

10:00 The BdryMatérn GP: A New
Gaussian Process Model for
Incorporating Boundary
Information
Liang Ding, Fudan University

10:30 Contrastive Latent Factor Modeling
for Inter-Subject Heterogeneity
with Application to Healthcare
Time Series
Meimei Liu, Virginia Tech

11:00 Graph Trend-Filtering for
Denoising via Graph Shrinkage
Processes
Weixuan Zhu, Xiamen University

IS25: Novel Bayesian Models and Methods in Item Response Theory

Room: Room 9th, 2nd Floor, Science Building

Organizer: Fan Liu

Chair: Yincai Tang

10:00 Bayesian Multilevel Modeling for
Jointly Handling Missing Response
and Background Covariate Data in

Large-Scale Educational
Assessments
Jialing Tan, Northeast Normal
University

10:30 Model-Based Clustering of
Mixed-Format Multidimensional
Item Responses via Gaussian
Mixture Modeling of Latent Traits
Siyao Cheng, Northeast Normal
University

11:00 A Cumulative Ordered
Spike-and-Slab Prior for Adaptive
Dimension Selection in Joint Latent
Space Models
Bin Lv, East China Normal
University

11:30 Adaptive Dimension Selection in
Multidimensional Graded Response
Models via Cumulative Shrinkage
Priors
Zhou Yu, East China Normal
University

IS23: Bayesian Methods for Complex Data and Time Series Modeling

Room: Room 10th, 2nd Floor, Science
Building

Organizer: Cathy Chen

Chair: Guanyu Hu

10:00 A Bayesian Nonparametric
Probabilistic Model with
Variational Inference for Identifying
Comorbidity Heterogeneity in
Chronic Disease Populations
Tingting Zhao, University of
Rhode Island

10:30 Particle-Filter-Assisted Variational
Bayesian Estimation for VAR
Models with Poisson Jumps
Wei-Ting Lai, Feng Chia
University

11:00 Zero-One Inflated Ordinal Time

	Series Models for Stock Return Interval Modeling under a Bayesian Framework Feng Chi Liu, Feng Chia University	Organizer: Zhouping Li Chair: Zhouping Li
11:30	Bayesian Nonhomogeneous Regime-Switching Mixed-Frequency Regression Xiangnan Feng, Fudan University	13:30 Bayesian Tensor Methods for Data, Models, and Distributions Zerui Tao, RIKEN AIP
IS15: Scalable Bayesian Learning for High-Dimensional Structured Data Room: Room 11 th , 2 nd Floor, Science Building Organizer: Jian Kang Chair: Jian Kang		14:00 Statistical Modeling and Residual Lifetime Prediction for Fractional Wiener Degradation Processes with Random Effects Jiandong Zhang, Northwest Normal University
13:30	BROWNIE: A Bayesian Random Weight Neural Network Inference Engine as a Scalable Alternative to Deep Learning Wei Hao, University of Michigan	14:30 Generalized-Bayes Portfolio Learning on the Feasible Action Space Aodong Guo, University of Macau
14:00	Prior Knowledge Guided Ultra-High Dimensional Variable Screening with Application to Neuroimaging Data Jie He, Nanjing University of Aeronautics and Astronautics	15:00 A Variational Empirical Bayes Approach for Tensor Quantile Regression Zhouping Li, Lanzhou University
		IS27: Advances in Bayesian Inference for Latent Heterogeneity, Missing Data, and Distributional Invariance Room: Room 6 th , 1 st Floor, Science Building Organizer: Juan Shen Chair: Juan Shen
14:30	Bayesian Scalar-on-Network Regression with the Latent Space Hierarchical Spike-and-Slab Prior Ben Wu, Renmin University of China	13:30 Uncovering Multi-Omics Profiles of Population Heterogeneity: A Cluster-Based Bayesian Approach Xiaolei Lin, Fudan University
15:00	A Bayesian Double Latent Membership Model for Joint Clustering of Multivariate Exposures and Outcomes Zhenke Wu, University of Michigan	14:00 Multiple-Imputation-Based Multivariate One-Sided Tests for Nonlinear Mixed-Effects Models with Left-censored Responses and Covariate Measurement Error Yixin Zhang, University of Science and Technology of China
July 25th PM (13:30-15:30)		
IS32: Advances in Bayesian Statistical Methods for Complex Data Room: Room 5 th , 1 st Floor, Science Building		14:30 Bayesian Environment Invariant Regression Ruqian Zhang, Fudan University

IS26: Bayesian Modeling and Applications

Room: Room 7th, 2nd Floor, Science Building

Organizer: Yincai Tang

Chair: Yincai Tang

13:30 A Bayesian Phase I Trial Design for
T Cell-engaging Therapy with
Step-in Dose Regimen
Xian Shi, East China Normal
University

14:00 Bayesian Variable Selection for
Fréchet Regression
Yingchun Huang, Yunnan
University of Finance and
Economic

14:30 Hierarchical Bayesian Degradation
Modeling for Reliability
Assessment and Remaining Useful
Life Prediction
Liangliang Zhuang, Nanjing
University of Science and
Technology

15:00 Simultaneous Testing of Mean
Vector and Covariance Matrix via
Posterior Bayes Factor
Yuanyuan Jiang, Beijing University
of Technology

IS29: Bayesian Statistical Inference and Federated Learning under Heterogeneous Data Environments

Room: Room 8th, 2nd Floor, Science Building

Organizer: Xiaodong Yan

Chair: Xianwen Ding

13:30 Semi-Parametric Precision
Calibration for Alzheimer's Early
Screening in Heterogeneous
Federated Learning
Chengshun Zheng, Xianwen Ding,
Jiangsu University of Technology

14:00 Robust Decentralized Federated
Learning with Ultra-High

Dimensional Heterogeneous Data

Wei Dong, Zhengzhou University

14:30 New Approaches for Testing
Non-Inferiority in a Three-arm Trial
with Normally Distributed
Endpoints
Fan Liang, Kunming University of
Science and Technology

15:00 Bayesian Inference for
Growing-Dimensional Models with
Nonignorable Missing Data:
Penalized Moment-Based Methods
Xiaoming Sha, Kunming University
of Science and Technology

IS13: Modern Bayesian Analysis and Its Novel Applications

Room: Room 9th, 2nd Floor, Science Building

Organizer: Yichuan Zhao

Chair: Puying Zhao

13:30 A Bayesian Criterion for
Re-Randomization
Ke Deng, Tsinghua University

14:00 Bayesian Transfer Learning for
Brain Computer Interfaces
Jian Kang, University of Michigan

14:30 Improving MCMC Mixing Under
Unidentified Transformation
Models Through Prior Adjustment
Catherine Liu, Hong Kong
Polytechnic University

IS30: Modern Bayesian Computation

Room: Room 10th, 2nd Floor, Science
Building

Organizer: Yuling Jiao

Chair: Yuling Jiao

13:30 Nonlinear Assimilation via
Score-based Sequential Langevin
Sampling
Cheng Yuan, Wuhan University

- 14:00 Two sides of the coin: Generative Learning for Self-Supervised Representation
Wensen Ma, The Hong Kong Polytechnic University (PolyU)
- 14:30 Provable Diffusion Posterior Sampling for Bayesian Inversion
Ruoxuan Li, Wuhan University
- 15:00 Provable RLHF: A Consistent Framework for Offline Reward Learning and Value Function Learning
Lican Kang, Wuhan University

IS35: Bayesian Methods for High-Dimensional Data: Forecasting, Selection, and Inference

Room: Room 11th, 2nd Floor, Science Building

Organizer: Huiqiong Li

Chair: Huiqiong Li

- 13:30 Bayesian Local Influence Diagnostics for Tensor Vector Autoregressions
Chengcheng Hao, Shanghai University of International Business and Economics
- 14:00 A Bayesian Framework for Boundary-Inflated Process Data: Censored Beta-IRT with Sparsity-Inducing Priors
Zhihui Fu, Minnan Normal University
- 14:30 A Novel Skinny Variational Bayesian Estimation Method for High-Dimensional Cox Models with Interval-Censored Data
Wenting Liu, Xi'an University of Finance and Economics

Detailed Contribution Sessions Schedule

July 25th PM (15:40-17:40)

Lu Luo, Yunnan University

CS01: Bayesian Latent Structures for High-Dimensional & Sensitive Data

Room: Room 7th, 1st Floor, Science Building
Chair: Yuxiao Nie

16:40 Online Variational Bayesian Inference for High-Dimensional Proportional Hazards Models
Wenfangqing Wang, Capital Normal University

15:40 Identification Verification for Structural Vector Autoregressions with Sparse Heterogeneous Markov Switching Heteroskedasticity
Fei Shang, Guangdong University of Foreign Studies

CS03: Bayesian Approaches for Spatial, Spatio-Temporal & Network Data

Room: Room 9th, 2nd Floor, Science Building
Chair: Yanmin Wang

16:10 Sparse Dynamic Latent Factor Models for EEG Based Brain Computer Interfaces
Yuxiao Nie, University of Michigan

15:40 Regional Variation in Subjective Well-being among the Young-old in China
Yanmin Wang, Anhui University of Finance and Economics

16:40 Variational Bayesian Tensor Clustering with Automatic Cluster Number Determination
Qingqing Jiang, Yunnan University

16:10 Bayesian Additive Regression Trees for Responses with Skewness and Heavy Tails
Wei Cheng, East China University of Science and Technology

17:10 Bayesian Mediation Analysis with Factor-Augmented Structural Equation Models for Informative Interval-Censored Data
Shunxin Qi, Liaoning University

16:40 A Bayesian Ensemble Propensity Score Matching Approach: An Application to Questionnaire Data on Reverse Consumption Among College Students
Xu Yang, Henan University of Economics and Law

CS02: Bayesian Inference & Computation in Complex Models

Room: Room 8th, 1st Floor, Science Building
Chair: Xiongwen Ke

17:10 Extreme Risk Assessment of Earthquake Catastrophe Loss Based on Bayesian Dynamic Quantile Model Averaging
Xinmei Yang, Yunnan University of Finance and Economics

15:40 Fused L1/2 Prior for Large-Scale Linear Inverse Problem with Gibbs Bouncy Particle Sampler
Xiongwen Ke, Central south university

CS04: Bayesian Optimization, Conformal Inference & Outlier Detection

16:10 Variational Bayes for High-Dimensional Multi-Source

Room: Room 10th, 2nd Floor, Science Building

Chair: Chia-Ming Lin

- 15:40 Bayesian Latent Class Modeling for
Predicting a Sensitive Attribute under
Warner's Randomized Response
Technique
Chia-Ming Lin, Chung Hsing
University
- 16:10 When Can a Posterior Predictive
Check Identify the Learning Rate?
Exact Degeneracy in Gaussian
Models and Implications for
Generalised Bayesian Inference
Nam Anh Le, National Economics
University
- 16:40 Multi-Signal Safety Surveillance with
Bayesian Latent Factor Modeling and
Bias Correction
Ziyang Pan, University of Michigan