

PROGRAM

Tuesday, 26 June 2018

① LT27	9:00 AM – 9:30 AM	Opening Ceremony
	9:30 AM – 10:30 AM	Plenary Lecture (PL01)
	Tea Break — Foyer of ①	
	11:10 AM – 12:10 PM	Plenary Lecture (PL02)
	Lunch — Foyer of ①	

② LT28	③ LT29	④ LT26	⑤ LT33	⑥ LT34	⑦ LT31	⑧ MD9- 0102 GH	⑨ S16- 06118	⑩ S17- 0405
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Tuesday, 26 June 2018

1:30 PM – 3:10 PM	DL16	IP01	IP13	IP51	IP08	IP53	TCP03	CP01	
Tea Break — Foyers of ①, ⑥, ⑦									
3:30 PM – 5:10 PM	DL06	IP04	IP05	IP42	IP17	IP23	TCP05	CP07	

Wednesday, 27 June 2018

8:30 AM – 10:10 AM	DL01	DL14	IP21	IP35	IP46	IP09	IP41	CP02	
Tea Break — Foyers of ①, ⑥, ⑦									
10:30 AM – 12:10 PM	DL11	IP03	IP29	IP30	IP40	IP55	IP14	CP04	
Lunch — Foyer of ①									
1:30 PM – 3:10 PM	DL07	DL15	IP22	IP39	IP47	IP26	IP16	TCP04	
Tea Break — Foyers of ①, ⑥, ⑦									
3:30 PM – 5:10 PM	DL13	IP18		IP33	IP44	IP59	IP61	CP05	
Buses begin departing NUS Kent Ridge Campus at 5:30 PM for Reception (7:00 PM) and Banquet Dinner (7:30 PM – 10:30 PM) at Carlton Hotel									

Thursday, 28 June 2018

8:30 AM – 10:10 AM	DL03	DL05	IP06	IP15	IP25	IP43	IP56	CP10	TCP09
Tea Break — Foyers of ①, ⑥, ⑦									
10:30 AM – 12:10 PM	DL04	DL08	IP57	IP10	IP20	IP32	IP12	IP49	TCP10
Lunch — Foyer of ①									
Excursion: "Singapore City Tour" (1:00 PM – 6:00 PM) [optional, tickets required]									

Friday, 29 June 2018

8:30 AM – 10:10 AM	DL12	DL10	IP11	IP07	IP34	IP48	TCP06	CP06	
Tea Break — Foyers of ①, ⑥, ⑦									
10:30 AM – 12:10 PM	IP45	IP28	IP37	IP50	IP58	TCP07	TCP08	CP08	
Lunch — Foyer of ①									
1:30 PM – 3:10 PM	DL02	IP02	IP31	IP36	IP52	IP60		CP03	
Tea Break — Foyers of ①, ⑥, ⑦									
3:30 PM – 5:10 PM	DL09	IP24	IP27	IP38	IP54	TCP02		CP09	

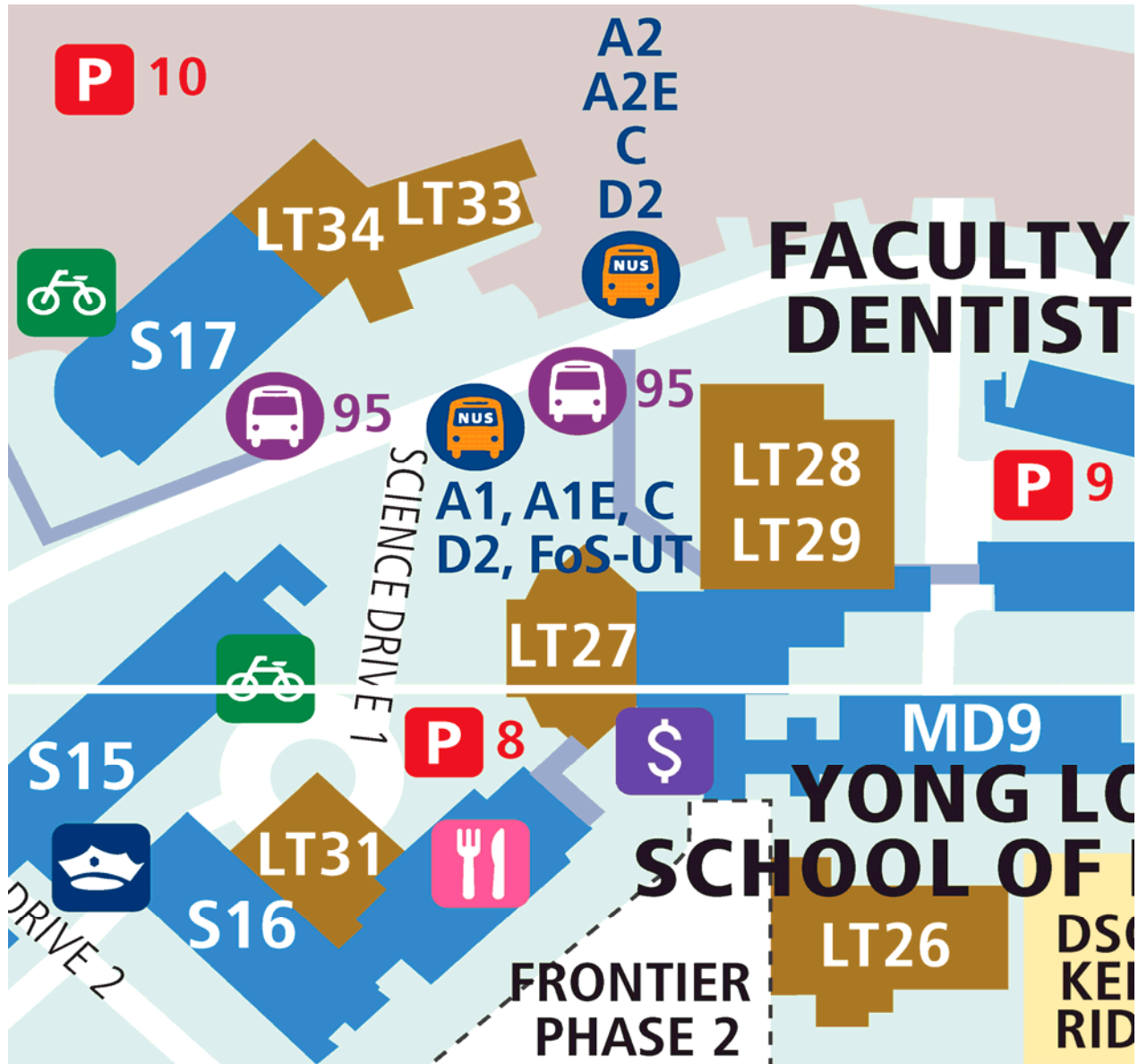
LOCALITY MAP

Getting to NUS (Kent Ridge Campus):

Ride the MRT Circle Line to Kent Ridge (CC24) Station, take Exit A, go to Bus Stop 3, transfer to the NUS Internal Shuttle Bus Service A1 (15-min interval), and alight at the bus stop outside LT29 (one stop).

Look out for a large sign with the message "ALIGHT HERE for IMS-APRM2018" just before the bus stop.

- ① LT27 Opening ceremony & plenary lectures; registration, tea break & lunch (foyer)
- ② LT28 Parallel sessions; same foyer as LT27
- ③ LT29 Parallel sessions; same foyer as LT27
- ④ LT26 Parallel sessions; up a ramp and then a short flight of stairs from LT27, on the left
- ⑤ LT33 Parallel sessions; cross the road from LT28 to building S17, level 2
- ⑥ LT34 Parallel sessions; cross the road from LT28 to building S17, level 3; tea break (foyer)
- ⑦ LT31 Parallel sessions; up a ramp from LT27, turn right to building S16, lvl 3; t/break (foyer)
- ⑧ MD9-0102GH Parallel sessions; up a ramp from LT27, turn left to building MD9, level 1
- ⑨ S16-06118 Parallel sessions; up a ramp from LT27, turn right to building S16, level 6
- ⑩ S17-0405 Parallel sessions; cross the road from LT28 to building S17, level 4



PLENARY LECTURES

PL01:	Tuesday, 26 June 2018, 9:30 AM to 10:30 AM, ① LT27
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Plenary Speaker: Louis H. Y. Chen, National University of Singapore

Chair: Qi-Man Shao, The Chinese University of Hong Kong

FROM STEIN'S LEMMA TO STEIN'S METHOD AND BEYOND

Stein's lemma gives a simple characterization of the normal distribution. In this talk, I will explain how Stein discovered this lemma and how it leads to Stein's method. I will also discuss the generator approach, the connection between Stein's method and Palm theory in random measures, the connection between Stein's method and Malliavin calculus, and applications to stochastic geometry.

PL02:	Tuesday, 26 June 2018, 11:10 AM to 12:10 PM, ① LT27
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Plenary Speaker: Bin Yu, University of California, Berkeley

Chair: Xuming He, University of Michigan

THREE PRINCIPLES OF DATA SCIENCE: PREDICTABILITY, STABILITY, AND COMPUTABILITY

In this talk, I'd like to discuss the intertwining importance and connections of three principles of data science in the title. They will be demonstrated in the context of two collaborative projects in neuroscience and genomics, respectively. The first project in neuroscience uses transfer learning to integrate fitted convolutional neural networks (CNNs) on ImageNet with regression methods to provide predictive and stable characterizations of neurons from the challenging primary visual cortex V4. The second project proposes iterative random forests (iRF) as a stabilized RF to seek predictable and interpretable high-order interactions between biomolecules.

Last updated
6/25/2018

DISTINGUISHED LECTURE SESSIONS

DL01:	Controlled Diffusion Processes Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ② LT28
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Distinguished Lecturer: Vivek S. Borkar, Indian Institute of Technology
 Chair: Vladimir Gaitsgory, Macquarie University
 8:30 AM to 9:20 AM: Vivek S. Borkar, Indian Institute of Technology
 "CONTROLLED DIFFUSION PROCESSES"
 9:20 AM to 9:45 AM: Anup Biswas, Indian Institute of Science Education and Research
 "RISK SENSITIVE ERGODIC CONTROLS"
 9:45 AM to 10:10 AM: Vladimir Gaitsgory, Macquarie University
 "ON AVERAGING OF SINGULARLY PERTURBED CONTROL SYSTEMS"

DL02:	Methods for Gene-Environment Interactions and Physical Activity in Retrospective Studies Friday, 29 June 2018, 1:30 PM to 3:10 PM, ② LT28
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Distinguished Lecturer: Raymond J. Carroll, Texas A&M University
 Chair: Yanyuan Ma, Pennsylvania State University
 1:30 PM to 2:20 PM: Raymond J. Carroll, Texas A&M University
 "SEMIPARAMETRIC ANALYSIS OF COMPLEX POLYGENIC GENE-ENVIRONMENT INTERACTIONS IN CASE-CONTROL STUDIES"
 2:20 PM to 2:45 PM: Chongzhi Di, Fred Hutchinson Cancer Research Center
 "TESTING GENE-ENVIRONMENT INTERACTIONS IN THE PRESENCE OF MEASUREMENT ERROR"
 2:45 PM to 3:10 PM: Yanyuan Ma, Pennsylvania State University
 "A SUPERPOPULATION TREATMENT TO CASE-CONTROL DATA ANALYSIS"

DL03:	Stochastic Analysis for Non-Local Operators Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ② LT28
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Distinguished Lecturer: Zhen-Qing Chen, University of Washington
 Chair: Jian Wang, Fujian Normal University
 8:30 AM to 9:20 AM: Zhen-Qing Chen, University of Washington
 "TIME FRACTIONAL EQUATIONS AND PROBABILISTIC REPRESENTATION"
 9:20 AM to 9:45 AM: Xin Chen, Shanghai Jiao Tong University
 "DIRICHLET FRACTIONAL HEAT KERNEL ESTIMATES ON A HORN-SHAPED DOMAIN"
 9:45 AM to 10:10 AM: Jian Wang, Fujian Normal University
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DL04:	Recent Advances in the Analysis of High-Dimensional Dependent Data Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ② LT28
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Distinguished Lecturer: Ching-Kang Ing, National Tsing Hua University
 Chair: Chun Yip Yau, Chinese University of Hong Kong
 10:30 AM to 11:20 AM: Ching-Kang Ing, National Tsing Hua University
 "VARIABLE SELECTION USING ORTHOGONAL GREEDY ALGORITHMS IN SPARSE HIGH-DIMENSIONAL TIME SERIES MODELS"
 11:20 AM to 11:45 AM: Shinpei Imori, Hiroshima University
 "CONVERGENCE RATE OF OGA UNDER COVARIATE SHIFT"

DISTINGUISHED LECTURE SESSIONS

11:45 AM to 12:10 PM: Chun Yip Yau, Chinese University of Hong Kong
 "GROUP ORTHOGONAL GREEDY ALGORITHM FOR CHANGE-POINT ESTIMATION OF MULTIVARIATE TIME SERIES"

DL05: Some Developments in High-Dimensional and High-Frequency Data Analysis
Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ③ LT29

Distinguished Lecturer: Bing-Yi Jing, Hong Kong University of Science and Technology

Chair: Zhi Liu, University of Macau

8:30 AM to 9:20 AM: Bing-Yi Jing, Hong Kong University of Science and Technology
 "LEARNING NETWORK DATA"

9:20 AM to 9:45 AM: Zhi Liu, University of Macau
 "DATA-EFFICIENT REALIZED COVARIANCE MATRIX"

9:45 AM to 10:10 AM: #N/A

DL06: Statistical Prediction with Big Data: From Digital Disease Forecasting to Protein Folding
Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ② LT28

Distinguished Lecturer: S.C. Samuel Kou, Harvard University

Chair: Shihao Yang, Harvard University

3:30 PM to 4:20 PM: S.C. Samuel Kou, Harvard University
 "BIG DATA, GOOGLE AND DISEASE DETECTION: THE STATISTICAL STORY"

4:20 PM to 4:45 PM: Samuel Wong, University of Florida
 "IMPROVING PROTEIN FOLDING PREDICTIONS BY DATA-DRIVEN MONTE CARLO SAMPLING AND SCORING METHODS"

4:45 PM to 5:10 PM: Shihao Yang, Harvard University
 "BIG DATA, GOOGLE, AND INFECTIOUS DISEASE PREDICTION: A STATISTICAL PERSPECTIVE"

DL07: The Euler Characteristic in Multivariate Distribution Theory and Random Fields
Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ② LT28

Distinguished Lecturer: Satoshi Kuriki, Institute of Statistical Mathematics, Japan

Chair: Akimichi Takemura, Shiga University

1:30 PM to 2:20 PM: Satoshi Kuriki, Institute of Statistical Mathematics, Japan
 "THE EULER CHARACTERISTIC METHOD FOR MULTIVARIATE ANALYSIS AND RANDOM MATRICES"

2:20 PM to 2:45 PM: Donald Richards, Pennsylvania State University
 "RECENT DEVELOPMENTS FOR THE SINGULAR VALUES OF SKEW-SYMMETRIC GAUSSIAN RANDOM MATRICES"

2:45 PM to 3:10 PM: Tomoyuki Shirai, Kyushu University
 "LIMIT THEOREMS FOR PERSISTENCE DIAGRAMS"

DL08: New Perspectives for Predicative Inference and Modeling
Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ③ LT29

Distinguished Lecturer: Regina Y. Liu, Rutgers University

Chair: Alan Wan, City University of Hong Kong

DISTINGUISHED LECTURE SESSIONS

- 10:30 AM to 11:20 AM: Regina Y. Liu, Rutgers University
"PREDICTION WITH CONFIDENCE — A GENERAL FRAMEWORK FOR PREDICTIVE INFERENCE"
- 11:20 AM to 11:45 AM: Ying Chen, National University of Singapore
"REGULARIZED PARTIALLY FUNCTIONAL AUTOREGRESSIVE MODELING WITH APPLICATION TO NATURAL GAS FLOW FORECASTING"
- 11:45 AM to 12:10 PM: Alan Wan, City University of Hong Kong
"MODEL AVERAGING IN A MULTIPLICATIVE HETEROSCEDASTIC MODEL"

DL09:	High-Dimensional Bayesian Computation Friday, 29 June 2018, 3:30 PM to 5:10 PM, ② LT28
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- Distinguished Lecturer: Eric Moulines, École Polytechnique
Chair: Randal Douc, Telecom SudParis
- 3:30 PM to 4:20 PM: Eric Moulines, École Polytechnique
"THE LANGEVIN MCMC: THEORY AND METHODS"
- 4:20 PM to 4:45 PM: Alexandre Thiery, National University of Singapore
"SCALING ANALYSIS OF LOCAL CONDITIONAL SMC ALGORITHMS IN HIGH-DIMENSIONS"
- 4:45 PM to 5:10 PM: Randal Douc, Telecom SudParis
"NUMERICALLY STABLE ONLINE ESTIMATION OF VARIANCE IN PARTICLE FILTERS"

DL10:	Genomic Hypothesis Testing Friday, 29 June 2018, 8:30 AM to 10:10 AM, ③ LT29
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- Distinguished Lecturer: Art B. Owen, Stanford University
Chair: ,
- 8:30 AM to 9:20 AM: Art B. Owen, Stanford University
"PERMUTATION P-VALUE APPROXIMATION VIA GENERALIZED STOLARSKY INVARIANCE"
- 9:20 AM to 9:45 AM: ,
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- 9:45 AM to 10:10 AM: ,
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DL11:	Recent Advances in Non- and Semi-parametric Structured Models Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ② LT28
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- Distinguished Lecturer: Byeong Uk Park, Seoul National University
Chair: Stefan Sperlich, Universite de Geneve
- 10:30 AM to 11:20 AM: Byeong Uk Park, Seoul National University
"NONPARAMETRIC ADDITIVE REGRESSION"
- 11:20 AM to 11:45 AM: Shujie Ma, University of California at Riverside
"A ROBUST AND EFFICIENT APPROACH TO CAUSAL INFERENCE BASED ON SPARSE SUFFICIENT DIMENSION REDUCTION"
- 11:45 AM to 12:10 PM: Stefan Sperlich, Universite de Geneve
"VARYING COEFFICIENT MODELS FOR MODELLING HETEROGENEITY"

DL12:	Limit Theorems and Application Friday, 29 June 2018, 8:30 AM to 10:10 AM, ② LT28
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DISTINGUISHED LECTURE SESSIONS

Distinguished Lecturer: Giovanni Peccati, Université du Luxembourg
 Chair: Mark Podolskji, Aarhus University
 8:30 AM to 9:20 AM: Giovanni Peccati, Université du Luxembourg
 "VARIATIONS AROUND DE JONG'S THEOREM"
 9:20 AM to 9:45 AM: Domenico Marinucci, University of Tor Vergata
 "THE GEOMETRY OF RANDOM SPHERICAL EIGENFUNCTIONS"
 9:45 AM to 10:10 AM: Mark Podolskji, Aarhus University
 "ON LIMIT THEORY FOR FUNCTIONALS OF STATIONARY INCREMENTS LEVY
 DRIVEN MOVING AVERAGES"

DL13:	Asymptotic Results for Some Nonparametric Tests Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ② LT28
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Distinguished Lecturer: John Robinson, University of Sydney
 Chair: John Kolassa, Rutgers University
 3:30 PM to 4:20 PM: John Robinson, University of Sydney
 "ASYMPTOTIC APPROXIMATIONS FOR SOME PERMUTATION AND BOOTSTRAP
 TESTS"
 4:20 PM to 4:45 PM: Alan Huang, University of Queensland
 "TWO FLAVOURS OF EMPIRICAL LIKELIHOOD"
 4:45 PM to 5:10 PM: John Kolassa, Rutgers University
 "SIZE AND POWER CONSIDERATIONS FOR MULTIVARIATE RANK STATISTICS"

DL14:	Recent Advances in Survival Analysis Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ③ LT29
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Distinguished Lecturer: Ingrid Van Keilegom, KU Leuven
 Chair: Valentin Patilea, CREST, Ensai
 8:30 AM to 9:20 AM: Ingrid Van Keilegom, KU Leuven
 "GOODNESS-OF-FIT TESTS IN SURVIVAL MODELS WITH RANDOM EFFECTS"
 9:20 AM to 9:45 AM: Wenbin Lu, North Carolina State University
 "TESTING AND ESTIMATION OF SOCIAL NETWORK DEPENDENCE WITH TIME TO
 EVENT DATA"
 9:45 AM to 10:10 AM: Valentin Patilea, CREST, Ensai
 "INFERENCE WITH CONDITIONAL MOMENT EQUATIONS IN THE PRESENCE OF
 CENSORING: APPLICATION TO CURE MODELS"

DL15:	Regularity and Ergodicity for Singular Stochastic Differential Equations Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ③ LT29
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Distinguished Lecturer: Fengyu Wang, Beijing Normal University
 Chair: Jinghai Shao, Tianjin University
 1:30 PM to 2:20 PM: Fengyu Wang, Beijing Normal University
 "ESTIMATES ON INVARIANT PROBABILITY MEASURES FOR SINGULAR SDES"
 2:20 PM to 2:45 PM: Xing Huang, Tianjin University
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 2:45 PM to 3:10 PM: Jinghai Shao, Tianjin University
 "INVARIANT MEASURES AND EULER-MARUYAMA'S APPROXIMATIONS OF STATE-
 DEPENDENT REGIME-SWITCHING DIFFUSION"

DISTINGUISHED LECTURE SESSIONS

DL16:	Recent Advances in Statistical Genetics Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ② LT28
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Distinguished Lecturer: Hongyu Zhao, Yale University

Chair: Can Yang, Hong Kong University of Science and Technology

1:30 PM to 2:20 PM: Hongyu Zhao, Yale University

"DATA INTEGRATION METHODS TO UNDERSTAND COMPLEX DISEASE GENETICS"

2:20 PM to 2:45 PM: Dongjun Chung, Medical University of South Carolina

"A STATISTICAL FRAMEWORK FOR THE INTEGRATION OF MULTIPLE GWAS RESULTS WITH LITERATURE MINING DATA"

2:45 PM to 3:10 PM: Can Yang, Hong Kong University of Science and Technology

"COMM: A COLLABORATIVE MIXED MODEL TO DISSECTING GENETIC CONTRIBUTIONS TO COMPLEX TRAITS"

Last updated

6/25/2018

INVITED PAPER SESSIONS

IP01:	New Techniques in High-Dimensional Data Analysis Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ③ LT29
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Organizer:	Makoto Aoshima, University of Tsukuba
Chair:	Makoto Aoshima, University of Tsukuba
1:30 PM to 1:55 PM:	Haipeng Shen, University of Hong Kong "TO WAIT OR NOT TO WAIT: TWO-WAY FUNCTIONAL HAZARDS MODEL FOR UNDERSTANDING WAITING IN CALL CENTERS"
1:55 PM to 2:20 PM:	Cheng Wang, Shanghai Jiao Tong University "ON THE DIMENSION EFFECT OF REGULARIZED LINEAR DISCRIMINANT ANALYSIS"
2:20 PM to 2:45 PM:	Hirokazu Yanagihara, Hiroshima University "CONSISTENT GENERALIZED CP IN HIGH-DIMENSIONAL MULTIVARIATE LINEAR MODELS UNDER NONNORMALITY"
2:45 PM to 3:10 PM:	Kazuyoshi Yata, University of Tsukuba "REGULARIZED PCA FOR HIGH-DIMENSIONAL DATA BASED ON THE NOISE-REDUCTION METHODOLOGY"

IP02:	Stochastic Analysis and Applications Friday, 29 June 2018, 1:30 PM to 3:10 PM, ③ LT29
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Organizer:	Sayan Banerjee, University of North Carolina at Chapel Hill
Chair:	Sayan Banerjee, University of North Carolina at Chapel Hill
1:30 PM to 1:55 PM:	Siva Athreya, Indian Statistical Institute, Bangalore "STRONG EXISTENCE AND UNIQUENESS FOR STABLE SDES"
1:55 PM to 2:20 PM:	Sayan Banerjee, University of North Carolina at Chapel Hill "ANALYZING THE DIFFUSION LIMIT OF JOIN THE SHORTEST QUEUE POLICY"
2:20 PM to 2:45 PM:	Amarjit Budhiraja, University of North Carolina at Chapel Hill "LARGE DEVIATIONS FROM THE HYDRODYNAMIC LIMIT FOR A SYSTEM WITH NEAREST NEIGHBOR INTERACTIONS"
2:45 PM to 3:10 PM:	Rongfeng Sun, National University of Singapore "MOMENTS OF THE (2+1)-DIMENSIONAL DIRECTED POLYMER IN THE CRITICAL WINDOW"

IP03:	Statistical Inference Based on Divergence Measures Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ③ LT29
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Organizer:	Ayanendranath Basu, Indian Statistical Institute, Kolkata
Chair:	Ayanendranath Basu, Indian Statistical Institute, Kolkata
10:30 AM to 10:55 AM:	Ayanendranath Basu, Indian Statistical Institute, Kolkata "ROBUST WALD-TYPE TESTS UNDER RANDOM CENSORING"
10:55 AM to 11:20 AM:	Michel Broniatowski, University Pierre et Marie Curie "A MONTE CARLO APPROACH TO DIVERGENCE MINIMIZATION PROBLEMS"
11:20 AM to 11:45 AM:	Hironori Fujisawa, Institute of Statistical Mathematics "ON DIFFERENCE BETWEEN TWO TYPES OF GAMMA-DIVERGENCE IN ROBUST REGRESSION MODELING"
11:45 AM to 12:10 PM:	Wolfgang Stummer, University of Erlangen Nurnberg "SOME UNIVERSAL INSIGHTS ON DIVERGENCES FOR STATISTICS, MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE"

INVITED PAPER SESSIONS

IP04:	New Advances in Statistical Methods for Complex Data in Biomedical Studies Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, (3) LT29
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Organizer:	Hongyuan Cao, University of Missouri-Columbia
Chair:	Jialiang Li, National University of Singapore
3:30 PM to 3:55 PM:	Yu Shen, MD Anderson Cancer Center "AFT REGRESSION ANALYSES OF SURVIVAL DATA SUBJECT TO BIASED SAMPLING"
3:55 PM to 4:20 PM:	Antai Wang, New Jersey Institute of Technology ""
4:20 PM to 4:45 PM:	Wanjie Wang, National University of Singapore "FUNCTIONAL DEBIAS ESTIMATION OF GENETIC RELATEDNESS IN HIGH-DIMENSIONAL LINEAR MODELS"
4:45 PM to 5:10 PM:	, ""

IP05:	Recent Developments in Clinical Trials Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, (4) LT26
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Organizer:	Yuh Ing Chen, National Central University
Chair:	Yuh Ing Chen, National Central University
3:30 PM to 3:55 PM:	Yuh Ing Chen, National Central University "ADAPTIVE DOSE-FINDING METHODS FOR PHASE I/II CLINICAL TRIALS"
3:55 PM to 4:20 PM:	Lu Cui, Abbvie "ADAPTIVE GROUP SEQUENTIAL TRIAL WITH FLEXIBLE TIMING OF SAMPLE SIZE DETERMINATION"
4:20 PM to 4:45 PM:	Toshimitsu Hamasaki, National Cerebral and Cardiovascular Center "DESIGNING EFFICIENT CLINICAL TRIALS WITH MULTIPLE EVENT-TIME OUTCOMES"
4:45 PM to 5:10 PM:	Chin Fu Hsiao, National Health Research Institutes "AN ADAPTIVE PHASE I/II DESIGN"

IP06:	Recent Developments in Change-Point Problems Thursday, 28 June 2018, 8:30 AM to 10:10 AM, (4) LT26
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Organizer:	Haeran Cho, University of Bristol
Chair:	Hao Chen, University of California, Davis
8:30 AM to 8:55 AM:	Rebecca Killick, Lancaster University "MULTIVARIATE CHANGEPOINT DETECTION WITH SUBSETS"
8:55 AM to 9:20 AM:	Wai Leong Ng, Chinese University of Hong Kong "OPTIMAL ESTIMATION OF CHANGE-POINT IN TIME SERIES"
9:20 AM to 9:45 AM:	Tengyao Wang, University of Cambridge "HIGH-DIMENSIONAL CHANGEPOINT ESTIMATION VIA SPARSE PROJECTION"
9:45 AM to 10:10 AM:	, ""

IP07:	Markov Chains and Related Topics Friday, 29 June 2018, 8:30 AM to 10:10 AM, (5) LT33
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Organizer:	Michael Choi, Cornell University
Chair:	Michael Choi, Cornell University

INVITED PAPER SESSIONS

- 8:30 AM to 8:55 AM: Swee Hong Chan, Cornell University
"IN BETWEEN RANDOM WALK AND ROTOR WALK IN THE SQUARE LATTICE"
- 8:55 AM to 9:20 AM: Michael Choi, Cornell University
"HITTING TIME AND MIXING TIME BOUNDS OF STEIN'S FACTORS"
- 9:20 AM to 9:45 AM: Daniel Jerison, Tel Aviv University
"BEYOND THE MONTE CARLO STANDARD ERROR: HONEST MCMC CONVERGENCE GUARANTEES"
- 9:45 AM to 10:10 AM: ,
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IP08:	Functional Data Analysis and Related Topics Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ⑥ LT34
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| Organizer: | Aurore Delaigle, University of Melbourne |
| Chair: | , |
| 1:30 PM to 1:55 PM: | Gery Geenens, University of New South Wales
"THE HELLINGER DEPENDENCE MEASURE AND ITS FUNCTIONAL ANALOGUE" |
| 1:55 PM to 2:20 PM: | Naisyin Wang, University of Michigan
"ESTIMATION AND INFERENCE OF TIME-VARYING COEFFICIENTS IN NON-LINEAR ODE MODELS" |
| 2:20 PM to 2:45 PM: | Zhigang Yao, National University of Singapore
"PRINCIPAL SUB-MANIFOLDS" |
| 2:45 PM to 3:10 PM: | Jin-Ting Zhang, National University of Singapore
"NEW TESTS FOR EQUALITY OF SEVERAL COVARIANCE FUNCTIONS FOR FUNCTIONAL DATA" |

IP09:	Recent Developments in Bayesian Statistics Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ⑦ LT31
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| Organizer: | Aurore Delaigle, University of Melbourne |
| Chair: | , |
| 8:30 AM to 8:55 AM: | Howard Bondell, University of Melbourne
"BAYESIAN REGRESSION FOR HIGH-DIMENSIONAL DATA USING A PRIOR ON THE MODEL FIT" |
| 8:55 AM to 9:20 AM: | John Ormerod, University of Sydney
"A PARTICLE BASED COLLAPSED VARIATIONAL APPROXIMATION FOR BAYESIAN LINEAR MODEL AVERAGING" |
| 9:20 AM to 9:45 AM: | , |
| 9:45 AM to 10:10 AM: | , |

IP10:	Statistical Methods for Functional Data Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ⑤ LT33
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| Organizer: | Subhajit Dutta, Indian Institute of Technology |
| Chair: | , |
| 10:30 AM to 10:55 AM: | Karthik Bharath, University of Nottingham
"SAMPLING OF WARP MAPS FOR CURVE ALIGNMENT" |

INVITED PAPER SESSIONS

- 10:55 AM to 11:20 AM: Joydeep Chowdhury, Indian Statistical Institute
"ON NONPARAMETRIC REGRESSION USING DATA DEPTH"
- 11:20 AM to 11:45 AM: ,
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- 11:45 AM to 12:10 PM: ,
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IP11:	Recent Advances in Change-Point Detection and Data Segmentation Friday, 29 June 2018, 8:30 AM to 10:10 AM, (4) LT26
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- Organizer: Piotr Fryzlewicz, London School of Economics
Chair: Piotr Fryzlewicz, London School of Economics
- 8:30 AM to 8:55 AM: Hock Peng Chan, National University of Singapore
"THE LOCAL TEST STATISTIC APPROACH IN MULTI-SEQUENCE SEGMENTATION"
- 8:55 AM to 9:20 AM: Hao Chen, University of California, Davis
"CHANGE-POINT DETECTION FOR LOCALLY DEPENDENT DATA"
- 9:20 AM to 9:45 AM: Piotr Fryzlewicz, London School of Economics
"MULTISCALE METHODS, RECURSION AND DATA-ADAPTIVE CHANGE-POINT DETECTION"
- 9:45 AM to 10:10 AM: Guenther Walther, Stanford University
"THE ESSENTIAL HISTOGRAM"

IP12:	Infinite-Dimensional Stochastic Analysis and its Applications Thursday, 28 June 2018, 10:30 AM to 12:10 PM, (8) MD9-0102GH
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- Organizer: Arnab Ganguly, Louisiana State University
Chair: Arnab Ganguly, Louisiana State University
- 10:30 AM to 10:55 AM: Arnab Ganguly, Louisiana State University
"APPROXIMATION OF INVARIANT DISTRIBUTIONS OF ERGODIC DIFFUSIONS: CLT AND MODERATE DEVIATIONS"
- 10:55 AM to 11:20 AM: Yaozhong Hu, University of Alberta at Edmonton
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- 11:20 AM to 11:45 AM: Janna Lierl, University of Connecticut
"NEUMANN HEAT FLOW AND GRADIENT FLOW FOR THE ENTROPY ON NON-CONVEX DOMAINS"
- 11:45 AM to 12:10 PM: Ruoyu Wu, University of North Carolina at Chapel Hill
"LOCAL CHARACTERIZATION OF DYNAMICS ON LARGE SPARSE GRAPHS"

IP13:	Analysis of Complex Data Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, (4) LT26
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- Organizer: Xuming He, University of Michigan
Chair: Xuming He, University of Michigan
- 1:30 PM to 1:55 PM: Jian Huang, University of Iowa
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- 1:55 PM to 2:20 PM: Weijie Su, University of Pennsylvania
"STATISTICAL INFERENCE FOR ONLINE LEARNING AND STOCHASTIC APPROXIMATION VIA HIERARCHICAL INCREMENTAL"
- 2:20 PM to 2:45 PM: Ying Sun, King Abdullah University of Science and Technology
"EFFICIENT ESTIMATION FOR NON-STATIONARY SPATIAL COVARIANCE FUNCTIONS"

INVITED PAPER SESSIONS

2:45 PM to 3:10 PM: Shurong Zheng, Northeast Normal University
"GLOBAL TESTING FOR HIGH-DIMENSIONAL CORRELATION MATRICES"

IP14:	Stochastic Partial Differential Equations Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ⑧ MD9-0102GH
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Organizer: Yaozhong Hu, University of Alberta at Edmonton

Chair: Yaozhong Hu, University of Alberta at Edmonton

10:30 AM to 10:55 AM: Jian Song, Hong Kong University
"TO BE DONE"

10:55 AM to 11:20 AM: Xiaoming Song, Drexel University
"NONLINEAR FEYNMAN-KAC FORMULAE FOR SPDES WITH SPACE-TIME NOISE"

11:20 AM to 11:45 AM: Jie Xiong, Southern University of Science and Technology
"LARGE DEVIATIONS FOR SPDES WITH LOCALLY MONOTONE COEFFICIENTS
DRIVEN BY LÉVY NOISE"

11:45 AM to 12:10 PM: Xicheng Zhang, Wuhan University
"STRONG UNIQUENESS OF DEGENERATE SDES WITH HÖLDER DIFFUSION
COEFFICIENTS"

IP15:	Recent Advancements in Spatial and Spatio-Temporal Statistics Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑤ LT33
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Organizer: Hsin Cheng Huang, Academia Sinica

Chair: Hsin Cheng Huang, Academia Sinica

8:30 AM to 8:55 AM: Chun Shu Chen, National Changhua University of Education
"ON FIXED EFFECTS ESTIMATION FOR SPATIAL REGRESSION WITH SPATIAL
CONFOUNDING"

8:55 AM to 9:20 AM: Mikyoung Jun, Texas A&M University
"SPATIO-TEMPORAL SHORT-TERM WIND FORECAST: A PROACTIVE REGIME-
SWITCHING METHOD"

9:20 AM to 9:45 AM: Haonan Wang, Colorado State University
"LOCALLY STATIONARY SPATIO-TEMPORAL MODELING: ESTIMATION AND
INFERENCE"

9:45 AM to 10:10 AM: Christopher Wikle, University of Missouri
"MULTI TIME-SCALE SPATIO-TEMPORAL DYNAMIC STATISTICAL MODELS
MOTIVATED BY MACHINE LEARNING"

IP16:	Advances in Regression and Classification Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ⑧ MD9-0102GH
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Organizer: Binyan Jiang, Hong Kong Polytechnic University

Chair: Binyan Jiang, Hong Kong Polytechnic University

1:30 PM to 1:55 PM: Xin Guo, Hong Kong Polytechnic University
"CENTERED REPRODUCING KERNELS AND THEIR APPLICATIONS"

1:55 PM to 2:20 PM: Limin Peng, Emory University
"TRAJECTORY QUANTILE REGRESSION FOR LONGITUDINAL DATA"

2:20 PM to 2:45 PM: Zhisheng Ye, National University of Singapore
"SHAPE CONSTRAINTS ON THE COVARIATE EFFECTS IN STOCHASTIC
DEGRADATION PROCESSES"

INVITED PAPER SESSIONS

2:45 PM to 3:10 PM: Teng Zhang, University of Central Florida
"FLEXIBLE EXPECTILE REGRESSION IN REPRODUCING KERNEL HILBERT SPACE"

IP17:	Statistical Causal Inference Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ⑥ LT34
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Organizer:	Manabu Kuroki, Yokohama National University
Chair:	Manabu Iwasaki, Yokohama City University
3:30 PM to 3:55 PM:	Hei Chan, National Institute of Informatics "LATEST RESULTS ON THE CAUSAL IDENTIFICATION PROBLEM IN LINEAR SEMS"
3:55 PM to 4:20 PM:	Shohei Shimizu, Shiga University "CAUSAL DISCOVERY, PREDICTION MECHANISMS, AND CONTROL"
4:20 PM to 4:45 PM:	Miao Wang, Peking University ""
4:45 PM to 5:10 PM:	Jiji Zhang, Lingnan University "OCCAM'S RAZORS IN THE STATISTICAL INFERENCE OF MARKOVIAN CAUSAL MODELS"

IP18:	New Developments in Nonparametric and High-Dimensional Bayesian Models Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ③ LT29
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Organizer:	Jaeyong Lee, Seoul National University
Chair:	Hee-Seok Oh, Seoul National University
3:30 PM to 3:55 PM:	Woncheol Jang, Seoul National University "ESTIMATIONS AND GENERALIZATIONS OF BIC"
3:55 PM to 4:20 PM:	Cheolwoo Park, University of Georgia "REGULARIZED AGGREGATION OF STATISTICAL PARAMETRIC MAPS"
4:20 PM to 4:45 PM:	Shuhei Mano, Institute of Statistical Mathematics "SAMPLERS FROM NON-EXCHANGEABLE PRIOR PROCESSES AND HYPERGEOMETRIC SYSTEMS"
4:45 PM to 5:10 PM:	, ""

IP20:	New Frontiers of Functional and High-Dimensional Data Analysis Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ⑥ LT34
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Organizer:	Yehua Li, University of California, Riverside
Chair:	Yehua Li, University of California, Riverside
10:30 AM to 10:55 AM:	Lily Wang, Iowa State University "ESTIMATION AND INFERENCE FOR IMAGE-ON-SCALAR REGRESSION"
10:55 AM to 11:20 AM:	Raymond Wong, Texas A&M University "PARTIALLY LINEAR FUNCTIONAL ADDITIVE MODELS FOR MULTIVARIATE FUNCTIONAL DATA"
11:20 AM to 11:45 AM:	#N/A
11:45 AM to 12:10 PM:	, ""

IP21:	Integrative Analysis of Multi-Omics Data Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ④ LT26
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INVITED PAPER SESSIONS

Organizer:	Gen Li, Columbia University
Chair:	Irina Gaynanova, Texas A&M University
8:30 AM to 8:55 AM:	Kuangnan Fang, Xiamen University "INTEGRATIVE SPARSE PRINCIPAL COMPONENT ANALYSIS"
8:55 AM to 9:20 AM:	Irina Gaynanova, Texas A&M University "STRUCTURAL LEARNING AND INTEGRATIVE DECOMPOSITION OF MULTI-VIEW DATA"
9:20 AM to 9:45 AM:	Qi Long, University of Pennsylvania ""
9:45 AM to 10:10 AM:	, ""

IP22:	Frontiers in Financial Statistics Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ④ LT26
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Organizer:	Yingying Li, Hong Kong University of Science and Technology
Chair:	Mengmeng Ao, Xiamen University
1:30 PM to 1:55 PM:	#N/A
1:55 PM to 2:20 PM:	Olivier Ledoit, University of Zürich "EFFICIENT SORTING: A MORE POWERFUL TEST FOR CROSS-SECTIONAL ANOMALIES"
2:20 PM to 2:45 PM:	#N/A
2:45 PM to 3:10 PM:	Xinghua Zheng, Hong Kong University of Science and Technology ""

IP23:	Advanced Statistical Methods for High-Dimensional Microbiome Data Analysis Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ⑦ LT31
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Organizer:	Huilin Li, New York University
Chair:	Huilin Li, New York University
3:30 PM to 3:55 PM:	Lingling An, University of Arizona ""
3:55 PM to 4:20 PM:	Richard Bonneau, New York University "MULTI-TASK APPROACHES TO LEARNING GENE-REGULATORY AND MICROBIAL INTERACTION NETWORKS FROM MULTIPLE L"
4:20 PM to 4:45 PM:	Yijuan Hu, Emory University ""
4:45 PM to 5:10 PM:	Huilin Li, New York University "AN EFFICIENT TWO-STAGE MICROBIAL ASSOCIATION MAPPING FRAMEWORK"

IP24:	Advances in Methods and Applications for Dependent Data Friday, 29 June 2018, 3:30 PM to 5:10 PM, ③ LT29
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Organizer:	Chae Young Lim, Seoul National University
Chair:	Chae Young Lim, Seoul National University
3:30 PM to 3:55 PM:	#N/A
3:55 PM to 4:20 PM:	Chih Hao Chang, National University of Kaohsiung "ASYMPTOTIC THEORY OF CONDITIONAL GENERALIZED INFORMATION CRITERION FOR LINEAR MIXED EFFECTS MODEL SE"

INVITED PAPER SESSIONS

- 4:20 PM to 4:45 PM: Jungsoon Choi, Hanyang University
"BAYESIAN SPATIALLY DEPENDENT VARIABLE SELECTION FOR SMALL AREA HEALTH MODELING"
- 4:45 PM to 5:10 PM: Ji Meng Loh, New Jersey Institute of Technology
"SINGLE-INDEX MODEL FOR INHOMOGENEOUS SPATIAL POINT PROCESSES"

IP25:	Advances in Statistical Machine Learning Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑥ LT34
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- Organizer: Jianqing Fan, Princeton University
- Chair: ,
- 8:30 AM to 8:55 AM: Yang Feng, Columbia University
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- 8:55 AM to 9:20 AM: Jiashun Jin, Carnegie Mellon University
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- 9:20 AM to 9:45 AM: Zheng (Tracy) Ke, University of Chicago
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- 9:45 AM to 10:10 AM: ,
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IP26:	Statistical Frontier in the Era of Big Data with Applications in Genomics Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ⑦ LT31
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- Organizer: Jin Liu, Duke-NUS Medical School
- Chair: Jin Liu, Duke-NUS Medical School
- 1:30 PM to 1:55 PM: Mingwei Dai, Hong Kong University of Science and Technology
"IGESS: A STATISTICAL APPROACH TO INTEGRATING INDIVIDUAL-LEVEL GENOTYPE DATA AND SUMMARY STATISTICS"
- 1:55 PM to 2:20 PM: Yuling Jiao, Zhongnan University of Economics and Law
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- 2:20 PM to 2:45 PM: Heng Peng, Hong Kong Baptist University
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- 2:45 PM to 3:10 PM: ,
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IP27:	The Ergodicity of Stochastic Partial Differential Equations and Related Topics Friday, 29 June 2018, 3:30 PM to 5:10 PM, ④ LT26
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- Organizer: Yong Liu, Peking University
- Chair: Yong Liu, Peking University
- 3:30 PM to 3:55 PM: Yuan Liu, Chinese Academy of Sciences
"ERGODICITY AND ASYMPTOTIC STABILITY OF FELL SEMIGROUPS ON METRIC SPACES"
- 3:55 PM to 4:20 PM: Bin Xie, Shinshu University
""
- 4:20 PM to 4:45 PM: Jianliang Zhai, University of Science and Technology of China
"WELL-POSED FOR 2-D STOCHASTIC NAVIER-STOKES EQUATIONS DRIVEN BY LÉVY NOISE"
- 4:45 PM to 5:10 PM: Deng Zhang, Shanghai Jiao Tong University
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INVITED PAPER SESSIONS

IP28:	Information Theory and Statistics Friday, 29 June 2018, 10:30 AM to 12:10 PM, ③ LT29
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Organizer:	Po Ling Loh, University of Wisconsin–Madison
Chair:	Po Ling Loh, University of Wisconsin–Madison
10:30 AM to 10:55 AM:	Yudong Chen, Cornell University "LEAVE-ONE-OUT ANALYSIS FOR CONVEX AND NONCONVEX MATRIX COMPLETION"
10:55 AM to 11:20 AM:	Varun Jog, University of Wisconsin–Madison "INFORMATION THEORETIC PERSPECTIVES ON LEARNING ALGORITHMS"
11:20 AM to 11:45 AM:	Cynthia Rush, Columbia University "SPARSE REGRESSION CODES: COMMUNICATIONS VIA HIGH-DIMENSIONAL LINEAR REGRESSION"
11:45 AM to 12:10 PM:	Vincent Tan, National University of Singapore "ASYMPTOTIC COUPLING AND ITS APPLICATIONS IN INFORMATION THEORY"

IP29:	Recent Advances in Statistical Methods for Analysis of Genomics Data Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ④ LT26
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Organizer:	Qi Long, University of Pennsylvania
Chair:	Qi Long, University of Pennsylvania
10:30 AM to 10:55 AM:	Mengjie Chen, University of Chicago "VARIABILITY-PRESERVING IMPUTATION FOR ACCURATE GENE EXPRESSION RECOVERY IN SINGLE CELL RNASEQ"
10:55 AM to 11:20 AM:	Hongkai Ji, Johns Hopkins University ""
11:20 AM to 11:45 AM:	Jin Liu, Duke-NUS Medical School "JOINT ANALYSIS OF INDIVIDUAL-LEVEL AND SUMMARY-LEVEL GWAS DATA BY LEVERAGING PLEIOTROPY"
11:45 AM to 12:10 PM:	Chaolong Wang, Genome Institute of Singapore "GENE-BASED RARE VARIANT ASSOCIATION TESTS FOR ANCESTRY-MATCHED"

IP30:	Emerging Methods in Big Data Analytics Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ⑤ LT33
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Organizer:	Ping Ma, University of Georgia
Chair:	Yehua Li, University of California, Riverside
10:30 AM to 10:55 AM:	TN Sriram, University of Georgia "ONLINE SEQUENTIAL LEVERAGING SAMPLING METHOD FOR STREAMING TIME SERIES DATA"
10:55 AM to 11:20 AM:	Tao Wang, Shanghai Jiao Tong University "GRAPH-ASSISTED INVERSE REGRESSION FOR COUNT DATA AND ITS APPLICATION TO SEQUENCING DATA"
11:20 AM to 11:45 AM:	Jingfei Zhang, University of Miami "A BIVARIATE POINT PROCESS MODEL WITH APPLICATION TO SOCIAL MEDIA USER CONTENT GENERATION"
11:45 AM to 12:10 PM:	#N/A

INVITED PAPER SESSIONS

IP31: Functional Data Classification: Perspectives from Statistics and Machine Learning**Friday, 29 June 2018, 1:30 PM to 3:10 PM, (4) LT26**

Organizer: Taps Maiti, Michigan State University
 Chair: Chae Young Lim, Seoul National University
 1:30 PM to 1:55 PM: Yunjin Choi, National University of Singapore
 "COMPUTING CONDITIONAL DENSITY OF EIGENVALUES IN HIGH-DIMENSION"
 1:55 PM to 2:20 PM: #N/A
 2:20 PM to 2:45 PM: Po Ling Loh, University of Wisconsin–Madison
 "TWO INFERENCE PROBLEMS FOR NETWORK CONTAGION"
 2:45 PM to 3:10 PM: Taps Maiti, Michigan State University
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IP32: Advances in Modeling and Analysis of High-Dimensional Data**Thursday, 28 June 2018, 10:30 AM to 12:10 PM, (7) LT31**

Organizer: Naveen Narisetty, University of Illinois
 Chair: Naveen Narisetty, University of Illinois
 10:30 AM to 10:55 AM: Arindam Chatterjee, Indian Statistical Institute
 "HIGHER ORDER ASYMPTOTICS FOR BOOTSTRAPPED POST-MODEL SELECTION"
 10:55 AM to 11:20 AM: Zijian Guo, Rutgers University
 ""
 11:20 AM to 11:45 AM: Jialiang Li, National University of Singapore
 "MULTI-THRESHOLD ACCELERATED FAILURE TIME MODEL"
 11:45 AM to 12:10 PM: #N/A

IP33: Recent Advances in Machine Learning**Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, (5) LT33**

Organizer: Yang Ning, Cornell University
 Chair: Cheng Li, National University of Singapore
 3:30 PM to 3:55 PM: Ian McKeague, Columbia University
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 3:55 PM to 4:20 PM: Kean Ming Tan, Unniversity of Minnesota
 "A NONCONVEX APPROACH TO SPARSE GENERALIZED EIGENVALUE PROBLEM AND ITS APPLICATION TO STATISTICS"
 4:20 PM to 4:45 PM: Qing Cheng, Shanghai University of Finance and Economics
 "MARGINAL SCREENING FOR INTERACTION DETECTION VIA MIXED DERIVATIVES IN HIGH DIMENSIONS"
 4:45 PM to 5:10 PM: Cheng Li, National University of Singapore
 "A DIVIDE-AND-CONQUER BAYESIAN APPROACH TO LARGE-SCALE KRIGING"

IP34: Analysis of Data with Dependent Structure**Friday, 29 June 2018, 8:30 AM to 10:10 AM, (6) LT34**

Organizer: Zhen Pang, Hong Kong Polytechnic University
 Chair: Zhen Pang, Hong Kong Polytechnic University
 8:30 AM to 8:55 AM: Guodong Li, University of Hong Kong
 ""

INVITED PAPER SESSIONS

- 8:55 AM to 9:20 AM: Chun-Ling, Catherine Liu, Hong Kong Polytechnic University
"SEMIPARAMETRIC BAYESIAN ANALYSIS FOR LONGITUDINAL MIXED EFFECTS MODELS WITH NON-NORMAL AR(1) ERRORS"
- 9:20 AM to 9:45 AM: Mengjiao Peng, Nanyang Technological University
"JOINT REGRESSION ANALYSIS FOR SURVIVAL DATA IN THE PRESENCE OF TWO SEMI-COMPETING RISKS"
- 9:45 AM to 10:10 AM: Liming Xiang, Nanyang Technological University
"GENERALIZED LINEAR MIXED MODELS WITH MISSING COVARIATES AND DISTRIBUTION-FREE RANDOM EFFECTS"

IP35:	Challenges and Advances in High-Dimensional Data Analysis Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ⑤ LT33
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| Organizer: | Cheolwoo Park, University of Georgia |
| Chair: | Cheolwoo Park, University of Georgia |
| 8:30 AM to 8:55 AM: | Jeongyoun Ahn, University of Georgia
"GENERALIZED RAYLEIGH RATIO OPTIMIZATION FOR HIGH-DIMENSIONAL DISCRIMINATION" |
| 8:55 AM to 9:20 AM: | Won Chang, University of Cincinnati
"CALIBRATING AN ICE SHEET MODEL USING HIGH-DIMENSIONAL BINARY SPATIAL DATA" |
| 9:20 AM to 9:45 AM: | Changwon Lim, Chung-Ang University
"ANALYSIS OF THE YEARBOOK FROM THE KOREA METEOROLOGICAL ADMINISTRATION USING A TEXT-MINING ALGORITHM" |
| 9:45 AM to 10:10 AM: | Miles Lopes, University of California, Davis
"NORMAL DISTRIBUTION WITH A SHRINKAGE INVERSE WISHART PRIORS" |

IP36:	Applications of Random Matrix Theory to High-Dimensional Inference Friday, 29 June 2018, 1:30 PM to 3:10 PM, ⑤ LT33
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| Organizer: | Debashis Paul, University of California, Davis |
| Chair: | Debashis Paul, University of California, Davis |
| 1:30 PM to 1:55 PM: | Gourab Mukherjee, University of Southern California
"IMPROVED SHRINKAGE PREDICTION UNDER A SPIKED COVARIANCE STRUCTURE" |
| 1:55 PM to 2:20 PM: | Guangming Pan, Nanyang Technological University
"LIMITING LAWS FOR DIVERGENT SPIKED EIGENVALUES AND LARGEST NON-SPIKED EIGENVALUE OF SAMPLE MATRICES" |
| 2:20 PM to 2:45 PM: | Debashis Paul, University of California, Davis
"HIGH-DIMENSIONAL TESTS FOR GENERAL LINEAR HYPOTHESES THROUGH SPECTRAL SHRINKAGE" |
| 2:45 PM to 3:10 PM: | #N/A |

IP37:	Statistical Inverse Problems in Neuromaging Friday, 29 June 2018, 10:30 AM to 12:10 PM, ④ LT26
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| Organizer: | Debashis Paul, University of California, Davis |
| Chair: | Debashis Paul, University of California, Davis |
| 10:30 AM to 10:55 AM: | Hernando Ombao, King Abdullah University of Science and Technology
"HERITABILITY OF EEG COHERENCE DURING A VISUAL WORKING MEMORY TASK" |

INVITED PAPER SESSIONS

- 10:55 AM to 11:20 AM: Armin Schwartzman, University of California, San Diego
"DO NOT TEST FOR ACTIVATION IN FMRI BUT ESTIMATE THE REGIONS OF ACTIVATION"
- 11:20 AM to 11:45 AM: Hang Yu, Nanyang Technological University
"TUNING-FREE BAYESIAN INFERENCE OF FUNCTIONAL BRAIN NETWORKS"
- 11:45 AM to 12:10 PM: Hongtu Zhu, MD Anderson Cancer Center
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IP38:	Recent Advances and Applications of Wavelet Methods in Nonparametric Statistics Friday, 29 June 2018, 3:30 PM to 5:10 PM, (5) LT33
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- Organizer: Spiridon Penev, University of New South Wales
Chair: Gery Geenens, University of New South Wales
- 3:30 PM to 3:55 PM: Hassan Doosti, Macquarie University
"NONPARAMETRIC ESTIMATION OF A QUANTILE DENSITY FUNCTION BY
- 3:55 PM to 4:20 PM: Gery Geenens, University of New South Wales
"SHAPE-PRESERVING WAVELET-BASED MULTIVARIATE DENSITY ESTIMATION"
- 4:20 PM to 4:45 PM: Fabien Navarro, ENSAI, Rennes
"WAVELET ESTIMATION WITH ADDITIVE AND MULTIPLICATIVE NOISE"
- 4:45 PM to 5:10 PM: ,
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IP39:	Recent Advances in Design and Analysis of Experiments Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, (5) LT33
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- Organizer: Frederick Kin Hing Phoa, Academia Sinica
Chair: Frederick Kin Hing Phoa, Academia Sinica
- 1:30 PM to 1:55 PM: Yasmeen Akhtar, Academia Sinica
"A CONSTRUCTION OF COST-EFFICIENT DESIGNS WITH GUARANTEED REPEATED MEASUREMENTS ON INTERACTION EFFECT"
- 1:55 PM to 2:20 PM: Ming Hung Kao, Arizona State University
"SHAPE-PRESERVING WAVELET-BASED MULTIVARIATE DENSITY ESTIMATION"
- 2:20 PM to 2:45 PM: Frederick Kin Hing Phoa, Academia Sinica
"DESIGNING EXPERIMENTS WITH UNSTRUCTURED TREATMENTS FOR GENERAL NETWORK STRUCTURES"
- 2:45 PM to 3:10 PM: John Stufken, Arizona State University
"OPTIMAL DESIGN FOR MIXED EFFECTS MODELS"

IP40:	High-Dimensional Functional Data Analysis Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, (6) LT34
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- Organizer: Xinghao Qiao, London School of Economics
Chair: Xinghao Qiao, London School of Economics
- 10:30 AM to 10:55 AM: Bing Li, Pennsylvania State University
"COPULA GAUSSIAN GRAPHICAL MODELS FOR FUNCTIONAL DATA"
- 10:55 AM to 11:20 AM: Matthew Reimherr, Pennsylvania State University
"THE SMOOTH ELASTIC NET FOR FUNCTION-ON-SCALAR REGRESSION"

INVITED PAPER SESSIONS

11:20 AM to 11:45 AM: Xinghao Qiao, London School of Economics
"REGRESSION WITH FUNCTIONAL ERRORS-IN-PREDICTORS:A GENERALIZED
METHOD-OF-MOMENTS APPROACH"

11:45 AM to 12:10 PM: ,
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IP41:	Recent Advances and Challenges in Big Data Inference Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ⑧ MD9-0102GH
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Organizer: Zhao Ren, University of Pittsburgh
Chair: Fengnan Gao, Fudan University
8:30 AM to 8:55 AM: Jinyuan Chang, Southwestern University of Finance and Economics
"HIGH-DIMENSIONAL STATISTICAL INFERENCES WITH OVER-IDENTIFICATION"

8:55 AM to 9:20 AM: Andreas Elsener, ETH Zürich
"SHARP ORACLE INEQUALITIES FOR STATIONARY POINTS OF NONCONVEX
PENALIZED M-ESTIMATORS"

9:20 AM to 9:45 AM: Lingzhou Xue, Pennsylvania State University
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9:45 AM to 10:10 AM: Wenxin Zhou, University of California, San Diego
"ADAPTIVE HUBER REGRESSION: ESTIMATION AND INFERENCE"

IP42:	Asymptotic Theory in Probability and Statistics Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ⑤ LT33
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Organizer: Qi-Man Shao, Chinese University of Hong Kong
Chair: Qi-Man Shao, Chinese University of Hong Kong
3:30 PM to 3:55 PM: Xia Chen, University of Tennessee
""
3:55 PM to 4:20 PM: Xiequan Fan, Tianjin University
"SELF-NORMALIZED CRAMER TYPE LARGE DEVIATIONS FOR MARTINGALES"

4:20 PM to 4:45 PM: Lan Gao, Chinese University of Hong Kong
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4:45 PM to 5:10 PM: Jiasheng Shi, Chinese University of Hong Kong
"A CRAMÉR MODERATE DEVIATION THEOREM FOR GENERAL SELF-NORMALIZED
SUMS"

IP43:	Statistical Analysis of Data Heterogeneity Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑦ LT31
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Organizer: Juan Shen, Fudan University
Chair: Ying Wei, Columbia University
8:30 AM to 8:55 AM: Marc Genton, King Abdullah University of Science and Technology
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8:55 AM to 9:20 AM: #N/A

9:20 AM to 9:45 AM: Naveen Narisetty, University of Illinois at Urbana-Champaign
"BAYESIAN REGULARIZATION FOR GRAPHICAL MODELS WITH UNEQUAL

INVITED PAPER SESSIONS

9:45 AM to 10:10 AM: Xiaolei Xun, Fudan University
 "OPTIMAL TEST PROCEDURES FOR MULTIPLE HYPOTHESES CONTROLLING THE FAMILYWISE EXPECTED LOSS"

IP44:	Recent Advances in Complex Data Analysis Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ⑥ LT34
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Organizer:	Weining Shen, University of California, Irvine
Chair:	Weixuan Zhu, Xiamen University
3:30 PM to 3:55 PM:	Yen Chi Chen, University of Washington "DENSITY TREE AND DENSITY RANKING IN SINGULAR MEASURES"
3:55 PM to 4:20 PM:	Raphael Huser, King Abdullah University of Science and Technology ""
4:20 PM to 4:45 PM:	Chee Ming Ting, Universiti Teknologi Malaysia "COMMUNITY DETECTION IN TIME-VARYING BRAIN NETWORKS USING DYNAMIC STOCHASTIC BLOCK MODELS"
4:45 PM to 5:10 PM:	Weixuan Zhu, Xiamen University ""

IP45:	Recent Advances in Random Matrix and Related Fields Friday, 29 June 2018, 10:30 AM to 12:10 PM, ② LT28
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Organizer:	Zhonggen Su, Zhejiang University
Chair:	Zhonggen Su, Zhejiang University
10:30 AM to 10:55 AM:	Zhigang Bao, Hong Kong University of Science and Technology ""
10:55 AM to 11:20 AM:	Dangzheng Liu, University of Science and Technology of China "SINGULAR VALUE STATISTICS FOR THE SPIKED ELLIPTIC GINIBRE ENSEMBLE"
11:20 AM to 11:45 AM:	Dong Wang, National University of Singapore ""
11:45 AM to 12:10 PM:	Lun Zhang, Fudan University ""

IP46:	Recent Advances in Statistical Machine Learning Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ⑥ LT34
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Organizer:	Will Wei Sun, University of Miami
Chair:	Jingfei Zhang, University of Miami
8:30 AM to 8:55 AM:	Lilun Du, Hong Kong University of Science and Technology ""
8:55 AM to 9:20 AM:	Jiashi Feng, National University of Singapore "EMPIRICAL RISK LANDSCAPE ANALYSIS FOR UNDERSTANDING DEEP NEURAL NETWORKS"
9:20 AM to 9:45 AM:	Xin He, City University of Hong Kong ""
9:45 AM to 10:10 AM:	, ""

IP47:	Bayesian Modelling and Computational Methods Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ⑥ LT34
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INVITED PAPER SESSIONS

Organizer:	Linda Tan, National University of Singapore
Chair:	Linda Tan, National University of Singapore
1:30 PM to 1:55 PM:	Nial Friel, University College Dublin "INFORMED SUB-SAMPLING MCMC: APPROXIMATE BAYESIAN INFERENCE FOR LARGE DATASETS"
1:55 PM to 2:20 PM:	David Nott, National University of Singapore "GAUSSIAN VARIATIONAL APPROXIMATION WITH FACTOR COVARIANCE STRUCTURE"
2:20 PM to 2:45 PM:	Michael Smith, University of Melbourne "IMPLICIT COPULAS FROM BAYESIAN REGULARIZED REGRESSION SMOOTHERS"
2:45 PM to 3:10 PM:	Linda Tan, National University of Singapore ""

IP48:	Statistical Inference for Random Processes: Theory and Applications Friday, 29 June 2018, 8:30 AM to 10:10 AM, (7) LT31
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Organizer:	Masayuki Uchida, Osaka University
Chair:	Masayuki Uchida, Osaka University
8:30 AM to 8:55 AM:	Yuta Koike, University of Tokyo ""
8:55 AM to 9:20 AM:	Hiroki Masuda, Kyushu University "OPTIMAL STABLE REGRESSION"
9:20 AM to 9:45 AM:	Masayuki Uchida, Osaka University "HYBRID MULTI-STEP ESTIMATORS FOR NON-ERGODIC DIFFUSION TYPE PROCESSES FROM REDUCED DATA"
9:45 AM to 10:10 AM:	Nakahiro Yoshida, University of Tokyo "PARTIAL QUASI LIKELIHOOD ANALYSIS"

IP49:	Nonlinear Regression with Non-Stationary Time Series Thursday, 28 June 2018, 10:30 AM to 12:10 PM, (9) S16-06118
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Organizer:	Qiyang Wang, University of Sydney
Chair:	Qiyang Wang, University of Sydney
10:30 AM to 10:55 AM:	Sanjaya Dissanayake, University of Sydney "NONPARAMETRIC ESTIMATION OF A COINTEGRATING REGRESSION MODEL WITH ENDOGENEITY AND LONG MEMORY"
10:55 AM to 11:20 AM:	Ke Zhu, University of Hong Kong "MODEL CHECKS FOR NONLINEAR COINTEGRATING REGRESSION"
11:20 AM to 11:45 AM:	Jiangyan Peng, University of Electronic Science and Technology of China "WEAK CONVERGENCE TO STOCHASTIC INTEGRALS UNDER PRIMITIVE CONDITIONS IN NONLINEAR ECONOMETRIC MODELS"
11:45 AM to 12:10 PM:	Hao Wu, University of Sydney ""

IP50:	Statistical Testing in Non- and Semiparametric Models Friday, 29 June 2018, 10:30 AM to 12:10 PM, (5) LT33
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Organizer:	Jing Wang, University of Illinois at Chicago
Chair:	Jing Wang, University of Illinois at Chicago

INVITED PAPER SESSIONS

- 10:30 AM to 10:55 AM: Jing Wang, University of Illinois at Chicago
"TESTING LOGISTIC REGRESSION MODELS WITH FREE-KNOT SPLINES"
- 10:55 AM to 11:20 AM: #N/A
- 11:20 AM to 11:45 AM: Yuanyuan Zhang, Tsinghua University
"ORACALLY EFFICIENT INFERENCE FOR TIME VARYING ARCH MODEL"
- 11:45 AM to 12:10 PM: Roger Zoh, Texas A&M University
""

IP51:	New Developments of High-Dimensional Complex Data Analysis Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ⑤ LT33
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- Organizer: Lan Wang, University of Minnesota
- Chair: Kean Ming Tan, University of Minnesota
- 1:30 PM to 1:55 PM: Xingdong Feng, Shanghai University of Finance and Economics
""
- 1:55 PM to 2:20 PM: Kean Ming Tan, University of Minnesota
""
- 2:20 PM to 2:45 PM: Runze Li, Pennsylvania State University
"LINEAR HYPOTHESIS TESTING FOR HIGH DIMENSIONAL GENERALIZED LINEAR MODELS"
- 2:45 PM to 3:10 PM: Zehua Chen, National University of Singapore
"PRINCIPLE OF CORRELATION AND FEATURE SELECTION IN HIGH-DIMENSIONAL MODELS WITH COMPLEX STRUCTURES"

IP52:	Selective Inference with Knockoffs Friday, 29 June 2018, 1:30 PM to 3:10 PM, ⑥ LT34
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- Organizer: Asaf Weinstein, Stanford University
- Chair: Asaf Weinstein, Stanford University
- 1:30 PM to 1:55 PM: Lucas Janson, Harvard University
""
- 1:55 PM to 2:20 PM: Yoshimasa Uematsu, University of Southern California
""
- 2:20 PM to 2:45 PM: #N/A
- 2:45 PM to 3:10 PM: Jia Zhou, University of Science and Technology of China
"UNIFORM KNOCKOFF FILTER FOR HIGH-DIMENSIONAL CONTROLLED GRAPH RECOVERY"

IP53:	Stochastic Processes and their Applications Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ⑦ LT31
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- Organizer: Dongsheng Wu, University of Alabama in Huntsville
- Chair: Dongsheng Wu, University of Alabama in Huntsville
- 1:30 PM to 1:55 PM: #N/A
- 1:55 PM to 2:20 PM: #N/A
- 2:20 PM to 2:45 PM: Yinghui Shi, Jiangsu Normal University
""
- 2:45 PM to 3:10 PM: Dongsheng Wu, University of Alabama in Huntsville
"SOME DIMENSION RESULTS OF GAUSSIAN RANDOM FIELDS"

INVITED PAPER SESSIONS

IP54:	Random Fields on Manifolds and Statistical Inference Friday, 29 June 2018, 3:30 PM to 5:10 PM, ⑥ LT34
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Organizer:	Yimin Xiao, Michigan State Univeristy
Chair:	Dongsheng Wu, University of Alabama in Huntsville
3:30 PM to 3:55 PM:	Xiaohong Lan, University of Science and Technology of China ""
3:55 PM to 4:20 PM:	Anatoliy Malyarenko, Mälardalen University ""
4:20 PM to 4:45 PM:	Wei Ying Wu, National Dong Hwa University "TAIL ESTIMATION FOR THE CROSS-SPECTRAL DENSITY OF A BIVARIATE STATIONARY GAUSSIAN RANDOM FIELD"
4:45 PM to 5:10 PM:	#N/A

IP55:	Emerging Statistical Inferences in Complex Data Analysis Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ⑦ LT31
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Organizer:	Minge Xie, Rutgers University
Chair:	Zijian Guo, Rutgers University
10:30 AM to 10:55 AM:	Jan Hannig, University of North Carolina at Chapel Hill "DEEP FIDUCIAL INFERENCE"
10:55 AM to 11:20 AM:	George Michailidis, University of Florida ""
11:20 AM to 11:45 AM:	Dongchu Sun, University of Missouri and East China Normal University "BAYESIAN ANALYSIS OF COVARIANCE MATRIX OF MULTIVARIATE"
11:45 AM to 12:10 PM:	Dan Yang, Rutgers University "FACTOR MODEL FOR HIGH-DIMENSIONAL TENSOR TIME SERIES"

IP56:	Recent Advances in Functional Data and Complex Structures Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑧ MD9-0102GH
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Organizer:	Fang Yao, Peking University and University of Toronto
Chair:	Fang Yao, Peking University and University of Toronto
8:30 AM to 8:55 AM:	Huang Hui, Peking University ""
8:55 AM to 9:20 AM:	Yehua Li, University of California, Riverside "COVARIANCE ESTIMATION AND PRINCIPAL COMPONENT ANALYSIS FOR
9:20 AM to 9:45 AM:	Yufeng Liu, University of North Carolina at Chapel Hill ""
9:45 AM to 10:10 AM:	Yichao Wu, University of Illinois at Chicago "FUNCTIONAL ENVELOPE FOR MODEL-FREE SUFFICIENT DIMENSION REDUCTION"

IP57:	Recent Progress of Statistical Inference for Economics and Social Science Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ④ LT26
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Organizer:	Kyusang Yu, KonKuk University
Chair:	Kyusang Yu, KonKuk University
10:30 AM to 10:55 AM:	Eun Ryung Lee, Sungkyunkwan University ""

INVITED PAPER SESSIONS

- 10:55 AM to 11:20 AM: Youngkyung Lee, Kangwon National University
"GENERALISED ADDITIVE DEPENDENCY INFLATED MODELS INCLUDING AGGREGATED COVARIATE"
- 11:20 AM to 11:45 AM: Christoph Rothe, University of Mannheim
""
- 11:45 AM to 12:10 PM: Melanie Schienle, Karlsruhe Institute of Technology
"DETERMINATION OF VECTOR ERROR CORRECTION MODELS IN HIGH DIMENSIONS"

IP58:	Stein's Method Friday, 29 June 2018, 10:30 AM to 12:10 PM, ⑥ LT34
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- Organizer: Zhuosong Zhang, University of Melbourne
Chair: Zhuosong Zhang, University of Melbourne
- 10:30 AM to 10:55 AM: Xiao Fang, Chinese University of Hong Kong
"LIMIT THEOREMS WITH RATE OF CONVERGENCE UNDER SUBLINEAR EXPECTATIONS"
- 10:55 AM to 11:20 AM: Adrian Roellin, National University of Singapore
"ERROR BOUNDS IN LOCAL LIMIT THEOREMS USING STEIN'S METHOD"
- 11:20 AM to 11:45 AM: Aihua Xia, University of Melbourne
""
- 11:45 AM to 12:10 PM: Zhuosong Zhang, University of Melbourne
"CRAMER-TYPE MODERATE DEVIATION FOR UNBOUNDED EXCHANGEABLE PAIRS"

IP59:	New Developments in High-Dimensional and Complex Data Analysis Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ⑦ LT31
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- Organizer: Yichuan Zhao, Georgia State University
Chair: Yichuan Zhao, Georgia State University
- 3:30 PM to 3:55 PM: Lei Huang, Southwestern Jiaotong University
"WEIGHTED VOLUME UNDER THE THREE-WAY RECEIVER OPERATING CHARACTERISTIC SURFACE"
- 3:55 PM to 4:20 PM: Binyan Jiang, Hong Kong Polytechnic University
"PENALIZED INTERACTION ESTIMATION FOR ULTRAHIGH DIMENSIONAL QUADRATIC REGRESSION"
- 4:20 PM to 4:45 PM: Bin Nan, University of California, Irvine
""
- 4:45 PM to 5:10 PM: Yichuan Zhao, Georgia State University
"EMPIRICAL LIKELIHOOD FOR THE BIVARIATE SURVIVAL FUNCTION UNDER UNIVARIATE CENSORING"

IP60:	Recent Advances in Statistical Methods for Big and Complex Data Friday, 29 June 2018, 1:30 PM to 3:10 PM, ⑦ LT31
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- Organizer: Lihui Zhao, Northwestern University
Chair: Zhigang Li, Dartmouth College
- 1:30 PM to 1:55 PM: Zhigang Li, Dartmouth College
"CONDITIONAL REGRESSION FOR MICORBIOME DATA"

INVITED PAPER SESSIONS

- 1:55 PM to 2:20 PM: Chunlin Wang, Xiamen University
"SEMIPARAMETRIC INFERENCE FOR MULTIPLE SAMPLES WITH EXCESS ZERO OBSERVATIONS"
- 2:20 PM to 2:45 PM: Rui Wang, Harvard Medical School
"A STOCHASTIC SECOND-ORDER GENERALIZED ESTIMATING EQUATIONS APPROACH FOR ESTIMATING ICCS"
- 2:45 PM to 3:10 PM: Tao Yu, National University of Singapore
"MSL COMPONENT DENSITY ESTIMATION IN MIXTURE MODELS WITH KNOWN MIXING PROPORTIONS"

IP61:	High-Dimensional Statistical Theory Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ⑧ MD9-0102GH
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- Organizer: Wen Xin Zhou, University of California, San Diego
- Chair: Wen Xin Zhou, University of California, San Diego
- 3:30 PM to 3:55 PM: Heather Battey, Imperial College London
"LARGE NUMBERS OF EXPLANATORY VARIABLES"
- 3:55 PM to 4:20 PM: Guang Cheng, Purdue University
""
- 4:20 PM to 4:45 PM: Fengnan Gao, Fudan University
"MAXIMUM LIKELIHOOD ESTIMATION OF SUBLINEAR PREFERENTIAL ATTACHMENT MODELS AND JANSON'S URNS"
- 4:45 PM to 5:10 PM: Kengo Kato, Tokyo University
"RANDOMIZED INCOMPLETE U-STATISTICS IN HIGH DIMENSIONS"

Last updated
7/2/2018

TOPIC CONTRIBUTED PAPER SESSIONS

TCP02:	Nonparametric and Semiparametric Methods for Complex Data Friday, 29 June 2018, 3:30 PM to 5:10 PM, ⑦ LT31
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Organizer:	Toshio Honda, Hitotsubashi University
Chair:	Toshio Honda, Hitotsubashi University
3:30 PM to 3:50 PM:	Rizky Reza Fauzi, Kyushu University "NEW TYPE OF GAMMA KERNEL DENSITY ESTIMATOR"
3:50 PM to 4:10 PM:	Toshio Honda, Hitotsubashi University "ADAPTIVELY WEIGHTED GROUP LASSO FOR SEMIPARAMETRIC QUANTILE REGRESSION MODELS"
4:10 PM to 4:30 PM:	Kanta Naito, Shimane University "REGRESSION WITH STAGEWISE MINIMIZATION ON RISK FUNCTION"
4:30 PM to 4:50 PM:	Hidetoshi Matsui, Shiga University "QUADRATIC REGRESSION FOR FUNCTIONAL-ON-FUNCTION MODELS"
4:50 PM to 5:10 PM:	Ryota Yabe, Shinshu University "UNIFORM CONVERGENCE RATE OF KERNEL FUNCTIONS WITH TRANSFORMED NONSTATIONARY REGRESSOR"

TCP03:	Stochastic Partial Differential Equations II Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ⑧ MD9-0102GH
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Organizer:	Yaozhong Hu, University of Alberta at Edmonton
Chair:	Yaozhong Hu, University of Alberta at Edmonton
1:30 PM to 1:50 PM:	Yiming Jiang, Nankai University "STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS WITH SPACE-TIME FRACTIONAL NOISES"
1:50 PM to 2:10 PM:	Litan Yan, Donghua University ""
2:10 PM to 2:30 PM:	, ""
2:30 PM to 2:50 PM:	, ""
2:50 PM to 3:10 PM:	, ""

TCP04:	Computational Statistics for High-Frequency Data Wednesday, 27 June 2018, 1:30 PM to 3:10 PM, ⑨ S16-06118
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Organizer:	Hiroki Masuda, Kyushu University
Chair:	Hiroki Masuda, Kyushu University
1:30 PM to 1:50 PM:	Shoichi Eguchi, Kyushu University, Osaka University "IMPROVEMENT OF MODEL SELECTION FUNCTION IN YUIMA PACKAGE"
1:50 PM to 2:10 PM:	Akitoshi Kimura, University of Tokyo "THE ASYMPTOTIC VARIANCE ESTIMATORS OF THE CORRELATION ESTIMATOR BETWEEN LATENT PROCESSES"
2:10 PM to 2:30 PM:	Daisuke Kurisu, Tokyo Institute of Technology ""
2:30 PM to 2:50 PM:	Teppei Ogihara, Institute of Statistical Mathematics "LOCAL ASYMPTOTIC MIXED NORMALITY FOR INTEGRATED DIFFUSION PROCESSES"

TOPIC CONTRIBUTED PAPER SESSIONS

2:50 PM to 3:10 PM: Yuma Uehara, Institute of Statistical Mathematics
 "GAUSSIAN QUASI-LIKELIHOOD ESTIMATION FOR ERGODIC LEVY DRIVEN SDE UNDER MODEL MISSPECIFICATION"

TCP05:	Tensor Theory and its Applications Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ⑧ MD9-0102GH
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Organizer:	Mitsuhiro Miyazaki, Kyoto University of Education
Chair:	Mitsuhiro Miyazaki, Kyoto University of Education
3:30 PM to 3:50 PM:	Deniz Akdemir, StatGen Consulting ""
3:50 PM to 4:10 PM:	Yoshitaka Nakajima, Kyushu University ""
4:10 PM to 4:30 PM:	Yi Shen, Beihang University "THE TENSOR RANK OF TENSOR PRODUCT OF TWO THREE-QUBIT W STATES IS EIGHT"
4:30 PM to 4:50 PM:	Taiji Suzuki, University of Tokyo "ESTIMATING NONLINEAR TENSOR PRODUCT IN INFINITE DIMENSIONAL SPACE BY KERNEL AND NEURAL NETWORK MODEL"
4:50 PM to 5:10 PM:	Jun Tsuchida, Tokyo University of Science "TENSOR CANONICAL COVARIANCE ANALYSIS WITH QUANTIFICATION METHOD"

TCP06:	Recent Advances in High-Dimensional Data Analysis Friday, 29 June 2018, 8:30 AM to 10:10 AM, ⑧ MD9-0102GH
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Organizer:	Chi Tim Ng, Chonnam National University
Chair:	Chi Tim Ng, Chonnam National University
8:30 AM to 8:50 AM:	Young-Geun Choi, Fred Hutchinson Cancer Research Center ""
8:50 AM to 9:10 AM:	Woojoo Lee, Inha University "LIKELIHOOD-BASED INFERENCE FOR BOUNDS OF CAUSAL PARAMETERS"
9:10 AM to 9:30 AM:	Chi Tim Ng, Chonnam National University "EXTERIOR ALGORITHM FOR CHANGE POINT DETECTION AND ESTIMATION OF FINANCIAL TIME SERIES DATA"
9:30 AM to 9:50 AM:	Van Cuong Nguyen, Chonnam National University "TRUNCATING A PENALTY WITHOUT INTRODUCING NEW TUNING PARAMETERS"
9:50 AM to 10:10 AM:	Kaimeng Zhang, Chonnam National University "PRINCIPAL COMPONENT ANALYSIS BASED ON MAXIMUM SEPARATION OF CLUSTERS"

TCP07:	New Developments in Nonparametric Methods Friday, 29 June 2018, 10:30 AM to 12:10 PM, ⑦ LT31
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Organizer:	Lan Xue, Oregon State University
Chair:	Lan Xue, Oregon State University
10:30 AM to 10:50 AM:	Yan Fang, Shanghai University of International Business and Economics "ROBUST ESTIMATION OF ADDITIVE FRONTIER FUNCTION WITH QUANTILE REGRESSION AND SHAPE CONSTRAINTS"
10:50 AM to 11:10 AM:	Takeru Matsuda, University of Tokyo "MINIMAX ADAPTIVE REDUCED-RANK REGRESSION"

TOPIC CONTRIBUTED PAPER SESSIONS

- 11:10 AM to 11:30 AM: Carmen Tekwe, Texas A&M University
""
- 11:30 AM to 11:50 AM: Zhaoliang Wang, Beijing University of Technology
"SPLINE ESTIMATOR FOR ULTRA-HIGH DIMENSIONAL PARTIALLY LINEAR VARYING COEFFICIENT MODELS"
- 11:50 AM to 12:10 PM: Nan Zhang, Fudan University
"ADAPTIVE BASIS SAMPLING FOR EXPONENTIAL FAMILY SMOOTHING SPLINES"

TCP08:	Risk Predictions and Validations for Complex Diseases Friday, 29 June 2018, 10:30 AM to 12:10 PM, ⑧ MD9-0102GH
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- Organizer: Hua Zhong, NYU School of Medicine
Chair: Hua Zhong, NYU School of Medicine
- 10:30 AM to 10:50 AM: Mengling Liu, NYU School of Medicine
""
- 10:50 AM to 11:10 AM: Li-Xuan Qin, Memorial Sloan Kettering Cancer Center
"ON THE USE OF CROSS VALIDATION FOR MOLECULAR CLASSIFICATION"
- 11:10 AM to 11:30 AM: Pei Wang, Icahn School of Medicine at Mount Sinai
""
- 11:30 AM to 11:50 AM: Hua Zhong, NYU School of Medicine
""
- 11:50 AM to 12:10 PM: ,
""

TCP09:	Data Mining Technology for Big Data Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑩ S17-0405
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- Organizer: Jianwei Chen, San Diego State University and Huaqiao University
Chair: Wuliu Zhang, Huaqiao University
- 8:30 AM to 8:50 AM: Yueer Gao, Huaqiao University
"RESEARCH ON THE CONVENTIONAL BUS LINE ADJUSTMENT OF RAIL TRANSIT CO-ROUTE SECTION BASED ON THE TRAFFIC CAPACITY CONSTRAINT OF BUS LANE"
- 8:50 AM to 9:10 AM: Cheng Wang, Huaqiao University
"AN ESSAY BASED ON INTEGRATION LEARNING"
- 9:10 AM to 9:30 AM: Wenhua Wang, Huaqiao University
"HOT RESEARCH TOPICS ON "ONE BELT AND ONE ROAD": A KEY-WORD BASED STATISTICAL METHOD "
- 9:30 AM to 9:50 AM: Wuliu Zhang, Huaqiao University
"DATA MINING ANALYSIS OF CHINESE INTERNET LENDING MARKET INFORMATION"
- 9:50 AM to 10:10 AM: Yongguang Zou, Huaqiao University
"STUDY ON THE TIME-SPACE CHARACTERISTICS OF TOURISM SECURITY IN SOUTHEAST ASIA BY CHINESE CITIZENS -- BASED ON BIG DATA PERSPECTIVE."

TCP10:	Statistical Methods for Big Data and Their Applications Thursday, 28 June 2018, 10:30 AM to 12:10 PM, ⑩ S17-0405
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- Organizer: Jianwei Chen, San Diego State University and Huaqiao University
Chair: Xindong Zhao, Huaqiao University

TOPIC CONTRIBUTED PAPER SESSIONS

- 10:30 AM to 10:50 AM: Jianwei Chen, San Diego State University and Huaqiao University
"SEMI-PARAMETRIC SPACE-TIME MODEL FOR FUNCTION DATA"
- 10:50 AM to 11:10 AM: Ridong Hu, Huaqiao University
"AN EMPIRICAL STUDY ON THE HETEROGENEITY OF CHINESE LISTED COMPANIES,
INCENTIVE AND R&D INVESTMENT OF SENIOR EXECUTIVES."
- 11:10 AM to 11:30 AM: Yonghong Xu, Xiamen University
"MISMEASURE OF CONSUMER'S CONFIDENCE INDEX"
- 11:30 AM to 11:50 AM: Xindong Zhao, Huaqiao University
"MODEL SELECTION INVOLVING MANY CANDIDATE VAR MODELS"
- 11:50 AM to 12:10 PM: ,
""

Last updated
7/2/2018

CONTRIBUTED PAPER SESSIONS

CP01:	Tuesday, 26 June 2018, 1:30 PM to 3:10 PM, ⑨ S16-06118
Chair:	Miao Yu Tsai, National Changhua University of Education
1:30 PM to 1:50 PM:	Miao Yu Tsai, National Changhua University of Education "CONCORDANCE CORRELATION COEFFICIENTS ESTIMATED BY VARIANCE COMPONENTS FOR LONGITUDINAL DATA"
1:50 PM to 2:10 PM:	Ryoya Oda, Hiroshima University "A CONSISTENT VARIABLE SELECTION METHOD IN THE HIGH-DIMENSIONAL MULTIPLE RESPONSES LINEAR REGRESSION"
2:10 PM to 2:30 PM:	Shin Fu Tsai, National Taiwan University "COMPARING COEFFICIENTS IN GAUSSIAN MIXTURE REGRESSION MODELS"
2:30 PM to 2:50 PM:	Inge Koch, University of Adelaide "FEATURE MAPS FOR HIGH-DIMENSIONAL BINARY BASED ON A DIFFERENCE IN PROPORTIONS OF OCCURRENCE "
2:50 PM to 3:10 PM:	Jiancang Zhuang, Institute of Statistical Mathematics "DETECTION AND REPLENISHMENT OF MISSING DATA IN MARKED POINT PROCESSES"
CP02:	Wednesday, 27 June 2018, 8:30 AM to 10:10 AM, ⑨ S16-06118
Chair:	Takayuki Kawashima, Graduate University for Advanced Studies
8:30 AM to 8:50 AM:	Takayuki Kawashima, Graduate University for Advanced Studies "ROBUST AND SPARSE REGRESSION IN GENERALIZED LINEAR MODEL BY STOCHASTIC OPTIMIZATION"
8:50 AM to 9:10 AM:	Mineaki Ohishi, Hiroshima University "A FAST ALGORITHM FOR SOLVING MODEL SELECTION CRITERION MINIMIZATION PROBLEM IN GENERALIZED RIDGE"
9:10 AM to 9:30 AM:	Kengo Fujisawa, Tokyo University of Science "ASYMMETRY MODEL BASED ON F-DIVERGENCE AND ORTHOGONAL DECOMPOSITION OF SYMMETRY FOR SQUARE TABLES"
9:30 AM to 9:50 AM:	Md. Abud Darda, National University, Bangladesh "A GENERALIZATION OF DIFFUSION MODELS IN TERMS OF LOGISTIC DISTRIBUTION FOR CUMULATIVE GROWTH"
9:50 AM to 10:10 AM:	Jieming Wang, Beijing Institute of Technology "HEAT KERNEL ESTIMATE FOR FINITE RANGE PROCESSES"
CP03:	Friday, 29 June 2018, 1:30 PM to 3:10 PM, ⑨ S16-06118
Chair:	Lu Hung Chen, National Chung-Hsing University
1:30 PM to 1:50 PM:	Lu Hung Chen, National Chung-Hsing University "STATISTICAL DOWNSCALING OF PM2.5 FORECASTS BY EOF-VARX MODELS"
1:50 PM to 2:10 PM:	Junhyeon Kwon, Seoul National University "FREQUENCY-DOMAIN PRINCIPAL COMPONENT ANALYSIS WITH MISSING VALUES"
2:10 PM to 2:30 PM:	Masaki Narukawa, Okayama University "EFFICIENT TAPERED SEMIPARAMETRIC ESTIMATION OF MULTIVARIATE FRACTIONAL PROCESSES"
2:30 PM to 2:50 PM:	Shun Matsuura, Keio University "ESTIMATION OF PRINCIPAL POINTS FOR MULTIVARIATE LOCATION-SCALE-ROTATION FAMILIES AND APPLICATIONS"

CONTRIBUTED PAPER SESSIONS

2:50 PM to 3:10 PM: Xiaohui Chang, Oregon State University
 ""

CP04:	Wednesday, 27 June 2018, 10:30 AM to 12:10 PM, ⑨ S16-06118
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Chair: Tomonari Sei, University of Tokyo

10:30 AM to 10:50 AM: Tomonari Sei, University of Tokyo
 "AN OBJECTIVE GENERAL INDEX FOR SEPARATION"

10:50 AM to 11:10 AM: Dustin Pluta, University of California, Irvine
 ""

11:10 AM to 11:30 AM: Michiko Okudo, University of Tokyo
 "PRIORS FOR THE FACTOR ANALYSIS MODEL BASED ON ITS GEOMETRIC
 STRUCTURE"

11:30 AM to 11:50 AM: Yuling Jiao, Zhongnan University of Economics and Law
 ""

11:50 AM to 12:10 PM: Yoga Dwi Nugroho, Sekolah Tinggi Ilmu Statistik, Jakarta
 ""

CP05:	Wednesday, 27 June 2018, 3:30 PM to 5:10 PM, ⑨ S16-06118
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Chair: Yugo Nakayama, University of Tsukuba

3:30 PM to 3:50 PM: Yugo Nakayama, University of Tsukuba
 "BIAS CORRECTION OF SUPPORT VECTOR MACHINE FOR HIGH-DIMENSIONAL
 DATA"

3:50 PM to 4:10 PM: Huiming Zhang, Peking University
 ""

4:10 PM to 4:30 PM: Febry Utami, STIS 56 Computer Division
 "RAW DATA CAPTURE AS EASY AS LIKERT-TYPE BUT HAVING QUASI INTERVAL
 SCALE WITH SMART PHONE (PART ONE)"

4:30 PM to 4:50 PM: Ting Wang, University of Otago
 "BAYESIAN MODELLING OF MARKED POINT PROCESSES WITH INCOMPLETE
 RECORDS"

4:50 PM to 5:10 PM: ,
 ""

CP06:	Friday, 29 June 2018, 8:30 AM to 10:10 AM, ⑨ S16-06118
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Chair: Yoon Bae Jun, Seoul National University

8:30 AM to 8:50 AM: Yoon Bae Jun, Seoul National University
 "BAYESIAN SPATIAL REGRESSION WITH NONPARAMETRIC MODELING OF
 SPECTRAL DENSITIES"

8:50 AM to 9:10 AM: Jin Hong Park, College of Charleston
 "ROBUST ESTIMATION OF CONDITIONAL VARIANCE OF TIME SERIES"

9:10 AM to 9:30 AM: Yoonsuh Jung, Korea University
 "EFFICIENT TUNING PARAMETER SELECTION BY CROSS-VALIDATED SCORE IN
 HIGH DIMENSIONAL MODELS"

9:30 AM to 9:50 AM: Kenichi Satoh, Hiroshima University
 "TEXT MINING OF DECLARATION OF HIROSHIMA 1947-2016 AND ITS
 VISUALIZATION"

9:50 AM to 10:10 AM: Wiji Triwilujeng, Price Directorate, BPS
 "REGIONAL PRIORITY FOR HOUSING ASSISTANCE OR HOUSING SUBSIDY BY IKK
 STRATIFICATION"

CONTRIBUTED PAPER SESSIONS

CP07:	Tuesday, 26 June 2018, 3:30 PM to 5:10 PM, ⑨ S16-06118
Chair:	Mitsunori Ogawa, University of Tokyo
3:30 PM to 3:50 PM:	Mitsunori Ogawa, University of Tokyo "THE HOLONOMIC GRADIENT METHOD FOR THE MOMENTS OF TRUNCATED CENTERD MULTIVARIATE NORMAL DISTRIBUTION"
3:50 PM to 4:10 PM:	Yihua Wang, Tamkang University, Taiwan "ON THE MONITORING OF AUTOCORRELATED GENERAL LINEAR PROFILES"
4:10 PM to 4:30 PM:	Lili Yue, Beijing University of Technology "REGRESSION ADJUSTMENT FOR TREATMENT EFFECT WITH MULTICOLLINEARITY IN HIGH DIMENSIONS"
4:30 PM to 4:50 PM:	Jiangyan Wang, Nanjing Audit University "ORACALLY EFFICIENT ESTIMATION OF THE FACTOR RETURN AND SPECIFIC ERROR DISTRIBUTIONS WITH SCB"
4:50 PM to 5:10 PM:	Gabriela Ciolek, Telecom ParisTech "ROBUST ESTIMATION FOR PDMPS"
CP08:	Friday, 29 June 2018, 10:30 AM to 12:10 PM, ⑨ S16-06118
Chair:	Joonpyo Kim, Seoul National University
10:30 AM to 10:50 AM:	Joonpyo Kim, Seoul National University "EXPECTILE FUNCTIONAL DATA CLUSTERING"
10:50 AM to 11:10 AM:	Wenlu Tang, Chinese University of HongKong ""
11:10 AM to 11:30 AM:	Yuan Tsung Chang, Mejiro University "A NEW ASPECT OF ESTIMATION OF POSITIVE NORMAL MEANS, INDIVIDUAL AND SIMULTANEITY"
11:30 AM to 11:50 AM:	Xingjie Shi, Duke-NUS Medical School "A FORWARD AND BACKWARD STAGewise ALGORITHM FOR NONCONVEX LOSS FUNCTIONS WITH ADAPTIVE LASSO"
11:50 AM to 12:10 PM:	Claudia Rivera, University of Auckland ""
CP09:	Friday, 29 June 2018, 3:30 PM to 5:10 PM, ⑨ S16-06118
Chair:	Yi Shen Lin, Academia Sinica, Taiwan
3:30 PM to 3:50 PM:	Yi Shen Lin, Academia Sinica, Taiwan "OPTIMAL STOPPING PROBLEMS WITH LOGCONCAVE REWARD FUNCTIONS"
3:50 PM to 4:10 PM:	Seoncheol Park, Seoul National University "MULTIRESOLUTION ANALYSIS FOR SPATIO-TEMPORAL DATA"
4:10 PM to 4:30 PM:	Guebin Choi, Seoul National University "HEAVY-SNOW TRANSFORM: A NEW MULTISCALE METHOD FOR TIME SERIES"
4:30 PM to 4:50 PM:	Weichang Yu, University of Sydney "VARIATIONAL NONPARAMETRIC DISCRIMINANT ANALYSIS"
4:50 PM to 5:10 PM:	Saba Riaz, Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology ""
CP10:	Thursday, 28 June 2018, 8:30 AM to 10:10 AM, ⑨ S16-06118
Chair:	Ismiana Putri, STIS 53 Computer Division

CONTRIBUTED PAPER SESSIONS

- 8:30 AM to 8:50 AM: Ismiana Putri, STIS 53 Computer Division
"REPRESENTATION OF REGIONAL CONSTRUCTION COST"
- 8:50 AM to 9:10 AM: Evi Sanjaya, STIS 55 Social Division
"ALTERNATIVE METHOD TO IDENTIFY NON-EXTREME OUTLIER (PART ONE)"
- 9:10 AM to 9:30 AM: Ryota Takami, Tokyo University of Science
"ON POINT-ASYMMETRY OF MULTINOMIAL PARAMETER AND DECOMPOSITION
OF POINT-SYMMETRY"
- 9:30 AM to 9:50 AM: Keisuke Yano, University of Tokyo
"NON-ASYMPTOTIC MINIMAX ADAPTATION AND WEAK ADMISSIBILITY USING
RANDOM SIEVE PRIORS"
- 9:50 AM to 10:10 AM: Li Xie, Beijing University of Technology
"PARTIALLY LINEAR ADDITIVE SPATIAL AUTOREGRESSIVE MODEL"

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7/2/2018