



第四届统计与数据科学联合会议

THE 4th JOINT CONFERENCE ON STATISTICS AND DATA SCIENCE

暨IMS China双年会

IMS CHINA BIENNIAL MEETING



JCSDS 公众号

会议手册 PROGRAM



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主办单位: 中国商业统计学会 中国现场统计研究会 中国概率统计学会
Host Organization: Commerce Statistics Society of China Chinese Association for Applied Statistics Chinese Society for Probability and Statistics
全国工业统计学教学研究会 **IMS-CHINA** **中华预防医学会生物统计分会**
Chinese Association for Industrial Statistics Teaching Biostatistics Branch of Chinese Preventive Medicine Association

承办单位: 贵州财经大学 **协办单位:** Bernoulli Society for Mathematical
Organizer: Guizhou University of Finance and Economics **Co-organizer:** Statistics and Probability

战略合作伙伴: 黄大年茶思屋科技网站
Strategic Partner: Chaspark

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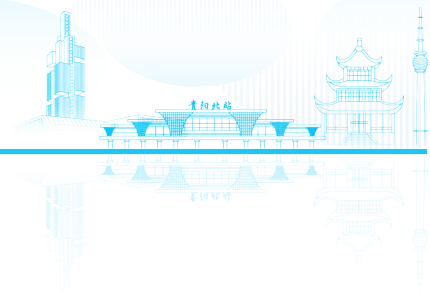
2026年7月11-13日 | 中国·贵阳
JULY 11-13, 2026 | GUIYANG · CHINA



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Welcome

The 4th Joint Conference on Statistics and Data Science is jointly initiated by the Commerce Statistics Society of China, Chinese Association for Applied Statistics, Chinese Society for Probability and Statistics, Chinese Association for Industrial Statistics Teaching, IMS-CHINA, and Biostatistics Branch of Chinese Preventive Medicine Association, with academic support from the Bernoulli Society for Mathematical Statistics and Probability, and co-organized by Guizhou University of Finance and Economics.

Since its inception, the Joint Conference on Statistics and Data Science has successfully held three remarkable sessions. From its debut in Beijing, to in-depth discussions in Kunming, and further vigorous development in Hangzhou, each has borne witness to the rapid progress in the fields of statistics and data science, bringing together the wisdom and dedication of numerous peers. During the previous sessions, we exchanged views on cutting-edge theories, shared valuable practical experience, and advanced in-depth interdisciplinary integration, fueling sustained progress across the field. Today, the Joint Conference on Statistics and Data Science has become one of the largest annual events in global statistics community, an achievement that would not have been possible without the active participation and dedication of every attendee.

Upholding the mission of building a high-level academic exchange platform, this year's conference aims to broaden the international vision of researchers and practitioners and deepen global exchanges and cooperation. We will delve into the latest research trends in statistics and data science, share state-of-the-art theories and application achievements, foster a vibrant academic atmosphere, spark brainstorming, and jointly tackle evolving scientific and technological challenges. The conference features a rich lineup of keynote speeches, invited talks and contributed presentations, alongside academic poster exhibitions, enterprise booths and talent recruitment activities. These diverse sessions fully showcase new concepts, technologies and developments in statistics and data science from multiple perspectives.

As the host city for this conference, Guiyang, Guizhou, boasts a unique natural environment and rich cultural resources. Its distinctive regional characteristics and profound cultural heritage create exceptionally favorable conditions for the conference's success. Known as the "Forest City", Guiyang enjoys a pleasant spring-like climate all year round. As a home to multiple ethnic groups including the Miao and Bouyei peoples, it embraces diverse traditions and an inclusive cultural ambiance. In recent years, Guiyang has seen continuous improvements in infrastructure, with convenient transportation and excellent reception capabilities, guaranteeing the smooth running of the conference. Guizhou University of Finance and Economics, the organizer, is a key institution of higher learning in Guizhou Province. Equipped with complete research facilities, a professional academic team and a strong scholarly atmosphere, the university has solid foundations and outstanding strengths in the research and teaching of statistics and data science, providing robust support for the conference.

We extend our warmest invitation to all distinguished guests traveling from near and far. Your participation is essential to the success of the conference. We are convinced that with joint efforts from all participants, the 4th Joint Conference on Statistics and Data Science will undoubtedly be an influential and remarkable academic feast!

Conference Information

Conference Committees

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Heping Zhang (Yale University)

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Bingyi Jing (The Chinese University of Hong
Kong, Shenzhen, Southern University of
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Linglong Kong (University of Alberta)

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Hansheng Wang (Peking University)	Jianqiao Wang (Tsinghua University)
Jingming Wang (University of Virginia)	Pei Wang (Icahn School of Medicine at Mount Sinai)
Yongyue Wei (Peking University)	Jun Wen (Mohamed bin Zayed University of Artificial Intelligence)
Lian Wu (Central South University)	Dong Xia (The Hong Kong University of Science and Technology)
Yin Xia (Fudan University)	Ting Yan (Central China Normal University)
Jianfeng Yao (The Chinese University of Hong Kong)	Sheng Yu (Tsinghua University)
Zhou Yu (East China Normal University)	Ming Yuan (Columbia University)

Wei Yuan (Renmin University of China)

Jingfei Zhang (Emory University)

Tusheng Zhang (University of Science and Technology of China)

Hongyu Zhao (Yale University)

Puying Zhao (Yunnan University)

Wei Zhong (Xiamen University)

Yong Zhou (East China Normal University)

Changliang Zou (Nankai University)

Hui Zou (University of Minnesota)

Xiang Zhan (Southeast University)

Linjun Zhang (Rutgers University)

Xinyu Zhang (Chinese Academy of Sciences)

Peng Zhao (Jiangsu Normal University)

Xingqiu Zhao (The Hong Kong Polytechnic University)

Yingchun Zhou (East China Normal University)

Liping Zhu (Renmin University of China)

Guohua Zou (Capital Normal University)

Organizing Committee

Co-Chairs:

Kunhe Miao, Hanwen Li (Guizhou University of Finance and Economics)

Yi Jiang (Commerce Statistical Society of China)

Associate Chairs:

Zhen Chen (Guizhou University of Finance and Economics)

Youth Scholars Workshop Committee

Co-Chairs:

Fang Han (University of Washington)

Dandan Jiang (Xi'an Jiaotong University)

Short Courses Committee

Co-Chairs:

Yuxin Chen (University of Pennsylvania)

Hansheng Wang (Peking University)



About GUFU

Guizhou University of Finance and Economics (GUFU) is located in Guiyang, the capital of Guizhou Province. Founded in 1958 as Guizhou College of Finance and Economics, it officially adopted its current name in 2012 with the approval of the Ministry of Education. Upholding the spirit of perseverance, rigor, pragmatism, and endurance, and guided by its motto of “Virtue, Erudition, Practice, and Innovation,” GUFU has cultivated over 200,000 outstanding graduates who have contributed to China’s economic development and social progress.

GUFU consists of 20 schools and colleges, enrolling 25,585 full-time students, including 230 doctoral students, 3,969 master’s students, 21,339 undergraduates, and 47 international students. There are over 2,014 teaching and research personnel in professional and technical positions, among whom nearly 762 have doctorates, 752 hold senior professional titles, and 83 are doctoral supervisors. GUFU is also home to 2 recipients of the State Council Special Government Allowance, 5 recipients of the Guizhou Provincial Government Special Allowance, 2 Key Contact Experts and 10 Contact Experts (as designated by the Guizhou Provincial Party Committee), 5 high-level innovative talents under Guizhou’s “Hundred-Level” talent program, 1 leading talent and 1 young outstanding talent in scientific and technological innovation, 2 leading theoretical talents and 6 young outstanding talents in the humanities and social sciences (under Guizhou’s High-Level Talent Training Support Program), as well as 36 “Golden Teachers” (provincial teaching masters).

GUFU hosts 3 provincial first-class disciplinary clusters, 8 provincial first-class disciplines, 6 provincial distinctive key disciplines, 10 provincial key disciplines, and 3 key disciplines supported under Guizhou’s Action Plan for Strengthening Science and Engineering Disciplines and Programs. One discipline ranks among the top 1% globally in Essential Science Indicators (ESI). GUFU offers three first-level disciplines authorized to confer doctoral degrees—Theoretical Economics, Business Administration, and Public Administration — along with 11 first-level disciplines authorized to confer master’s degrees, 20 professional master’s degree categories, and three postdoctoral research stations. It runs 60 undergraduate programs, including 19 national first-class undergraduate program development sites, 6 nationally distinctive programs, 18 provincial first-class undergraduate program development sites, 9 provincial “flagship programs,” 18 national first-class undergraduate courses, and 162 provincial “Golden Courses” (first-class courses).

GUFU houses two provincial key laboratories, two provincial engineering research centers, one provincial international scientific and technological cooperation base, two provincial collaborative innovation centers, three provincial humanities and social sciences research bases, two provincial social science popularization bases, six provincial talent development and training bases, 18 provincial innovation teams, and one provincial high-end think tank. One of its research institutes has been approved as a governing member of the ZGC Global High-Level Think Tank Alliance and selected as a source think tank in the China Think Tank Index (CTTI). *The Journal of Guizhou University of Finance and Economics*, published by the University, is indexed in *A Guide to the Core Journals of China*, the Chinese Social Sciences Citation Index (CSSCI), and the AMI Comprehensive Evaluation Report of Chinese Journals of Humanities and Social Sciences (core journal level).

GUFE has established paired assistance relationships with Nanjing University and Central University of Finance and Economics, continuing to explore innovative approaches to cultivating high-level academic talents. With support from departments of Peking University and Sun Yat-sen University, it has launched the Experimental Class in New Structural Economics and the Xia Shuzhang Experimental Class in Public Administration. The University also maintains strategic partnerships with Shanghai University of Finance and Economics, East China Normal University, and the University of Macau. In cooperation with Western Michigan University (USA), GUFE established the Western Michigan Institute, Guizhou University of Finance and Economics, the first undergraduate-level Sino-foreign cooperative education institution in Guizhou Province. In addition, GUFE offers two undergraduate cooperative programs with Edinburgh Napier University in the UK and Marshall University in the US, operates an International Scholarly Exchange Curriculum (ISEC) program in collaboration with the China Scholarship Council, and has jointly established a Confucius Institute with the Eritrea Institute of Higher Education and Research in Africa.

Looking ahead, GUFE strives to become a regionally first-class university rooted in Guizhou, serving the nation, and extending its influence along the Belt and Road.



贵州财经大学简介

贵州财经大学创办于 1958 年，原名为贵州财经学院，2012 年经教育部批准更为现名。学校始终秉持“艰苦奋斗、严谨务实、负重致远”的精神，恪守“厚德、博学、笃行、鼎新”的校训，已先后为国家经济建设和社会发展输送了 20 余万名各类优秀人才。

学校下设 20 个学院，有全日制在校生 25585 人，其中博士研究生 230 人，硕士研究生 3969 人，本科生 21339 人，留学生 47 人。全校教职工 2014 人，其中具有博士学位 762 人，高级职称教师 752 人；博士生导师 83 人。享受国务院政府特殊津贴专家 2 人，享受贵州省省政府特殊津贴专家 5 人，贵州省委重点联系专家 2 人，联系专家 10 人，贵州省高层次创新型人才（百层次）5 人；贵州省高层次人才培养支持工程科技创新领域领军人才 1 人、青年拔尖人才 1 人；贵州省高层次人才培养支持工程人文社科领域理论类领军人才 2 人、青年拔尖人才 6 人。贵州省“金师”（教学名师）36 人。

学校现有贵州省国内一流建设学科群 3 个，省一流建设学科 8 个，省级特色重点学科 6 个，省级重点学科 10 个，贵州省理工科学专业建设强化行动重点支持学科 3 个，1 个学科进入 ESI 全球排名前 1%。拥有理论经济学、工商管理学、公共管理学 3 个博士学位授权一级学科，11 个硕士学位授权一级学科，20 个硕士专业学位授权类别；拥有 3 个博士后科研流动站。现有本科专业 60 个，国家级一流本科专业建设点 19 个，国家级特色专业 6 个，省级一流本科专业建设点 18 个，省级“金专”建设点 9 个，国家级一流本科课程 18 门，省级“金课”（一流课程）162 门。

学校现有省级重点实验室 2 个，省级工程研究中心 2 个，省级国际科技合作基地 1 个，省级协同创新中心 2 个，省级人文社科研究基地 3 个，省级社会科学普及基地 2 个，省级人才培养（训）基地 6 个，省级创新团队 18 个，省级高端智库 1 个。1 个研究院核准为“中关村全球高端智库联盟”理事单位，并入选 CTTI 来源智库。学校主办的《贵州财经大学学报》入选中文核心期刊要目总览、中文社会科学引文索引（CSSCI）、中国人文社会科学期刊 A 刊核心期刊等。

学校与南京大学、中央财经大学建立对口帮扶关系，积极探索学术型创新人才培养路径，在北京大学、中山大学有关院系支持下开办“新结构经济学实验班”“夏书章公共管理实验班”，与上海财经大学、华东师范大学、澳门大学等开展战略合作。学校与美国西密西根大学合作举办的贵州财经大学西密歇根学院，是贵州省第一个本科层次的中外合作办学机构；与英国爱丁堡龙比亚大学、美国马歇尔大学合作举办 2 个中外合作办学本科项目；与国家留学基金管理委员会合作举办本科学术互认课程（ISEC）项目；与非洲厄立特里亚高等教育与研究院合作建有 1 所孔子学院。

学校正朝着建成立足贵州、面向全国、辐射“一带一路”的区域一流大学目标奋勇前进。

About the School of Mathematics & Statistics and the College of Big Data Statistics

The School of Mathematics & Statistics and the College of Big Data Statistics at Guizhou University of Finance and Economics were established in 2005 and 2017, respectively. The College of Big Data Statistics is jointly administered by the National Bureau of Statistics of China and the People's Government of Guizhou Province. In March 2026, the two schools began operating under an integrated administrative structure. We currently enroll 1,122 undergraduate students and 204 master's students.

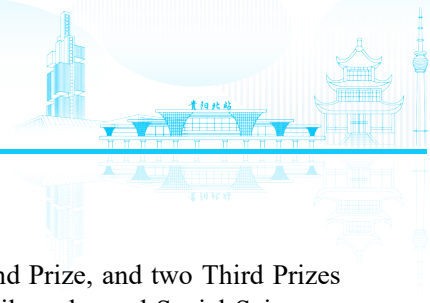
The schools consists of four teaching departments: the Department of Public Mathematics, the Department of Statistics and Data Science, the Department of Economic Statistics, and the Department of Applied Mathematics. We offer six undergraduate programs: Statistics, Mathematics and Applied Mathematics, Economic Statistics, Financial Mathematics, Big Data Management and Application, and Data Science. Among them, Statistics and Economic Statistics are recognized as national first-class undergraduate program development sites, while Economic Statistics is also designated as a provincial "flagship program" development site.

The schools offer academic master's degree programs in two first-level disciplines—Statistics and Mathematics—as well as a professional master's degree program in Applied Statistics. Both Statistics and Mathematics are designated as provincial first-class disciplines in Guizhou and as key supported disciplines under Guizhou's Action Plan for Strengthening Science and Engineering Disciplines and Programs.

The schools have 138 full-time faculty members, including 96 with doctoral degrees, accounting for 69.57% of the total, while 65.94% hold senior professional titles. There are currently 12 doctoral supervisors and 56 master's supervisors. The faculty includes one recipient of the State Council Special Government Allowance, two recipients of the Guizhou Provincial Government Special Allowance, one Guizhou Provincial Core Expert, five "Golden Teachers" (provincial teaching masters), five high-level innovative talents under Guizhou's "Hundred-Level" talent program, two high-level innovative talents under Guizhou's "Thousand-Level" talent program, and two scientists listed among the world's top 2% scientists.

Attaching great importance to student internships and practical training, the schools have established 30 internship bases in collaboration with statistical bureaus at the prefectural and municipal levels across Guizhou Province, as well as with banks, securities companies, and other enterprises and public institutions. Students actively participate in academic competitions such as the National College Student Mathematics Competition, the National College Student Statistical Modeling Competition, and the National College Student Market Survey and Analysis Competition. Over the past five years, we have won a cumulative total of 127 national-level awards, while the average rate of admission to graduate study has reached 20%, reflecting continuous improvement in talent cultivation.

Over the past five years, the schools' faculty have published 357 high-level academic papers and secured 34 national-level research projects. We have won one Second Prize and three Third Prizes



of the Guizhou Natural Science Award; two First Prizes, one Second Prize, and two Third Prizes of the Guizhou Provincial Outstanding Achievement Awards in Philosophy and Social Sciences; obtained 7 invention patents; and published 12 academic monographs. The schools also pioneered the Statistical Reporting System for Under-Forest Economy Surveys, which was approved by the Guizhou Provincial Bureau of Statistics and has since been promoted throughout the province.

With strong momentum for development, the schools are committed to providing solid mathematical and statistical support for GUFÉ's goal of becoming a regionally first-class university.

数学与统计学院、大数据统计学院简介

贵州财经大学数学与统计学院、大数据统计学院分别成立于 2005 年和 2017 年；大数据统计学院由国家统计局与贵州省人民政府共办。2026 年 3 月，两个学院合署办公。现有在校本科生 1122 人，硕士研究生 204 人。

学院下设公共数学、统计与数据科学、经济统计、应用数学 4 个教学系。有统计学、数学与应用数学、经济统计学、金融数学、大数据管理与应用、数据科学 6 个本科专业。统计学和经济统计学属国家级一流本科专业建设点，经济统计学属贵州省“金专”建设点。

学院有统计学和数学两个一级学科学术型硕士学位授予点，一个应用统计硕士专业学位授予点。统计学和数学均属贵州省区域一流学科、贵州省理工科学专业建设强化行动重点支持学科。

学院现有专任教师 138 人，其中博士学位 96 人，占比 69.57%；高级职称占比 65.94%。现有博士生导师 12 人，硕士生导师 56 人；国务院政府特殊津贴 1 人，贵州省政府特殊津贴 2 人；贵州省省管核心专家 1 人，贵州省“金师” 5 人；贵州省高层次创新型“百”层次人才 5 人、“千”层次人才 2 人，全球前 2%顶尖科学家 2 人。

学院注重学生实习实践，与贵州省各市州统计局、银行和证券公司等企事业单位共建实习基地 30 个；学生积极参与全国大学生数学竞赛、统计建模大赛、市场调查与分析大赛等学科竞赛，五年来累计获得国家级奖项 127 项，升学率平均 20%，人才培养质量不断取得新突破。

近五年发表高水平学术论文 357 篇，主持国家级项目 34 项；获贵州省自然科学奖二等奖 1 项、三等奖 3 项；贵州省哲学社会科学优秀成果奖一等奖 2 项、二等奖 1 项、三等奖 2 项；授权发明专利 7 项；出版学术专著 12 部。首创“林下经济统计调查报表制度”获贵州省统计局批准并在全省推广运行。

学院发展态势强劲，努力为学校建成区域一流大学作好数理支撑。

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Where academic depth meets industrial excellence

Where inspiration turns into real-world impact, fueling the next wave of transformative intelligence

统计学 × AI 系列访谈：《数据之上》从记录一个人，到记录一个学科

茶思屋邀请统计学及数据科学领域的 5 位知名学者深度对话，从多元视角勾勒学科发展脉络，记录时代智识的演进轨迹



Statistics × AI Interview Series:

Beyond the Numbers: From Recording a Scholar to Recording a Discipline

Featuring in-depth conversations with five distinguished scholars in statistics and data science, this series explores the field through multiple perspectives, tracing its development and documenting the evolution of ideas in the age of data and AI.



List of Exhibitors

Special Exhibitors (In Alphabetical Order by Pinyin)

 智统数合 Unified Data Intelligence	 野鹿盖茶业 YE LU GAI CHA YE	 贵州大数据集团 GUIZHOU BIG DATA INDUSTRY GROUP	ZEEKR 极氪
北京智统数合科技有限公司	贵州野鹿盖茶产业有限公司	贵州大数据集团	极氪汽车
 中国商业统计学会 COMMERCE STATISTICAL SOCIETY OF CHINA			
中国商业统计学会			

Exhibitors (In Alphabetical Order by Pinyin)

 北京师范大学统计学院	 东南大学统计与数据科学学院	 高等教育出版社	 贵州财经大学 GUIZHOU UNIVERSITY OF FINANCE AND ECONOMICS
北京师范大学统计学院	东南大学统计与数据科学学院	高等教育出版社	贵州财经大学
 湖南大学 HUNAN UNIVERSITY	 机械工业出版社 CHINA MACHINE PRESS	 康纳亚	 MDPI
湖南大学金融与统计学院	机械工业出版社	康纳亚	MDPI
 清华大学统计与数据科学系	 Springer	SLADS Statistical Learning and Data Science	 上海财经大学统计与数据科学学院
清华大学统计与数据科学系	Springer	Statistical Learning and Data Science	上海财经大学统计与数据科学学院
 上海对外经贸大学统计与数据科学学院	 《统计理论及其应用》(英文)	 西安交通大学数学与统计学院	 浙江大学 数据科学研究中心 Center for Data Science ZHEJIANG UNIVERSITY
上海对外经贸大学统计与数据科学学院	《统计理论及其应用》(英文)	西安交通大学数学与统计学院	浙江大学数据科学研究中心

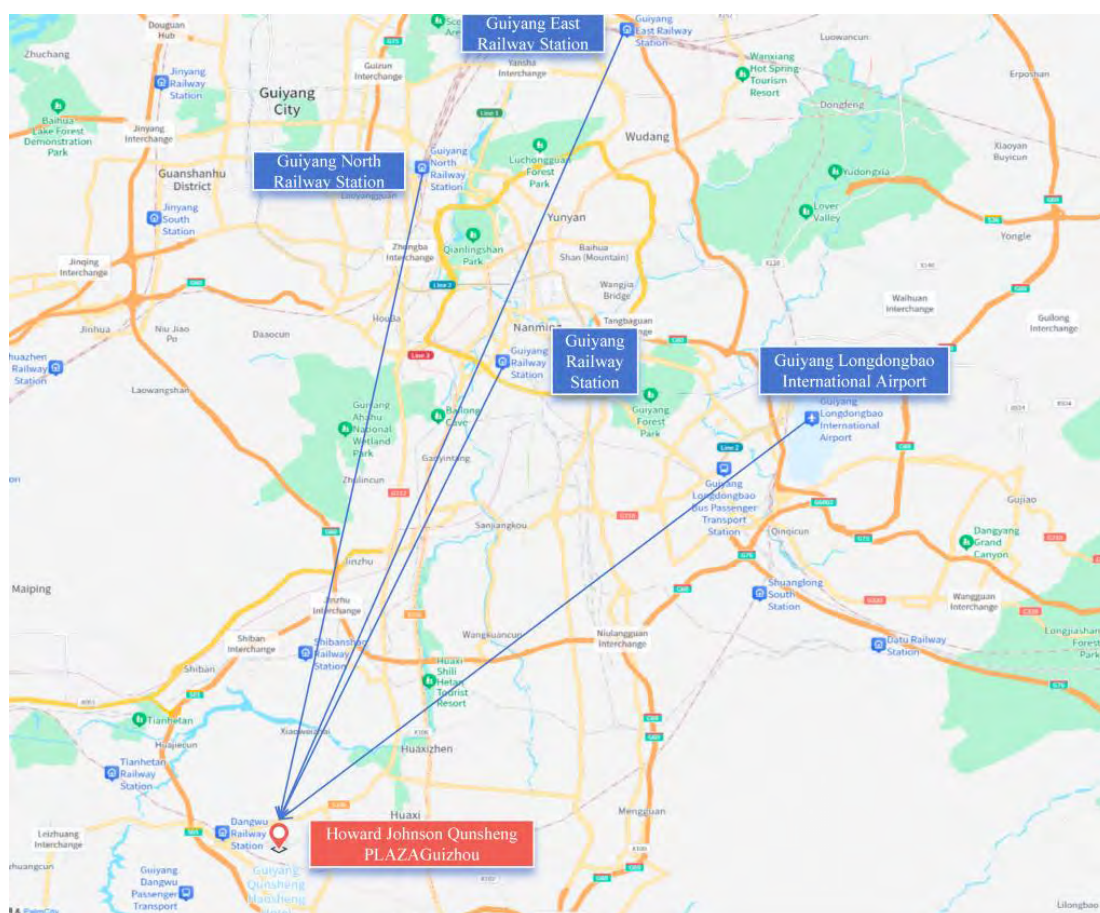
Transportation Guide

Conference Venue

The 4th Joint Conference will be held at Howard Johnson Qunsheng Plaza Guizhou.

The address is Howard Johnson Qunsheng Plaza Guizhou, Intersection of Siya Road and Simeng Road, University Town, Gui'an New Area, Huaxi District, Guiyang City, Guizhou Province.

(贵州省贵阳市花溪区贵安新区大学城思雅路与思孟路交叉口)



Route 1: Guiyang Longdongbao International Airport → Howard Johnson Qunsheng Plaza Guizhou

Distance: 34.3 km

By Car: Approximately 47 minutes (About ¥82 by taxi)

Public Transportation: Walk 340 meters + Metro Line 2 + Metro Line 3 + Bus 808 (Total Duration: 1 hour and 40 minutes)

Route 2: Guiyang North Railway Station → Howard Johnson Qunsheng Plaza Guizhou

Distance: 31.3 km

By Car: Approximately 44 minutes (About ¥75 by taxi)

Public Transportation: Walk 340 meters + Bus 808 (Total Duration: 1 hour and 19 minutes)

Route 3: Guiyang East Railway Station → Howard Johnson Qunsheng Plaza Guizhou

Distance: 41.4 km

By Car: Approximately 54 minutes (About ¥99 by taxi)

Public Transportation: Walk 10 meters + Bus 271 + Metro Line 3 + Bus 808 (Total Duration: 1 hour and 56 minutes)

Route 4: Guiyang Railway Station → Howard Johnson Qunsheng Plaza Guizhou

Distance: 24.2 km

By Car: Approximately 36 minutes (About ¥58 by taxi)

Public Transportation: Walk 130 meters + Bus 203 + Bus 808 (Total Duration: 1 hour and 22 minutes)

Pick-up Service

日期 Date	时间 Departure Time	起点站 Origin Station	途径站 Intermediate Station	终点站 Destination Station	车程 Driving Time
7月10日 星期五 July 10, Friday 14:00-21:20 (接机接站) (Airport and station pick-up)	14:00-21:20 每隔四十分钟 一辆 Depart every 40 minutes	贵阳北站 Guiyangbei Railway Station	贵州群升豪 升大酒店 Howard Johnson Qunsheng Plaza Guizhou	锦江凯里 亚德酒店 Kyriad Marvelous Hotel	约 45 分钟 About 45 minutes
		贵阳龙洞堡国际机场 Guiyang Longdongbao Airport			约 45 分钟 About 45 minutes
7月13日 星期一 July 13, Monday 17:00-18:00 (送机送站) (Airport and station drop-off)	17:00-18:00 每隔 20 分钟 一辆 Depart every 20 minutes	贵州群升豪升大酒店 Howard Johnson Qunsheng Plaza Guizhou	贵阳北站 Guiyangbei Railway Station	贵阳龙洞堡国际机场 Guiyang Longdongbao Airport	约 45 分钟 About 45 minutes
			贵阳龙洞堡国际机场 Guiyang Longdongbao Airport		约 45 分钟 About 45 minutes



Accommodation

1. Howard Johnson Qunsheng Plaza Guizhou: 30 meters from China-ASEAN International Conference Center, a 1-minute walk

- (1) King Size Bed Room (Breakfast included)
- (2) Twin Bed Room (Breakfast included)
- (3) Suite Room (Breakfast included)

2. Q-Garden Hotel Guizhou: 60 meters from China-ASEAN International Conference Center, a 2-minute walk

- (1) King Size Bed Room (Breakfast included)
- (2) Twin Bed Room (Breakfast included)

3. Anchao Colorful Guizhou Hotel: 300 meters from China-ASEAN International Conference Center, a 4-minute walk

- (1) Deluxe King Size Bed Room (Breakfast included)
- (2) Deluxe Twin Bed Room (Breakfast included)
- (3) Superior King Size Bed Room (Breakfast included)
- (4) Superior Twin Bed Room (Breakfast included)

4. Kyriad Marvelous Hotel: 510 meters from the conference center, a 7-minute walk

- (1) King Size Bed Room (Breakfast included)
- (2) Twin Bed Room (Breakfast included)

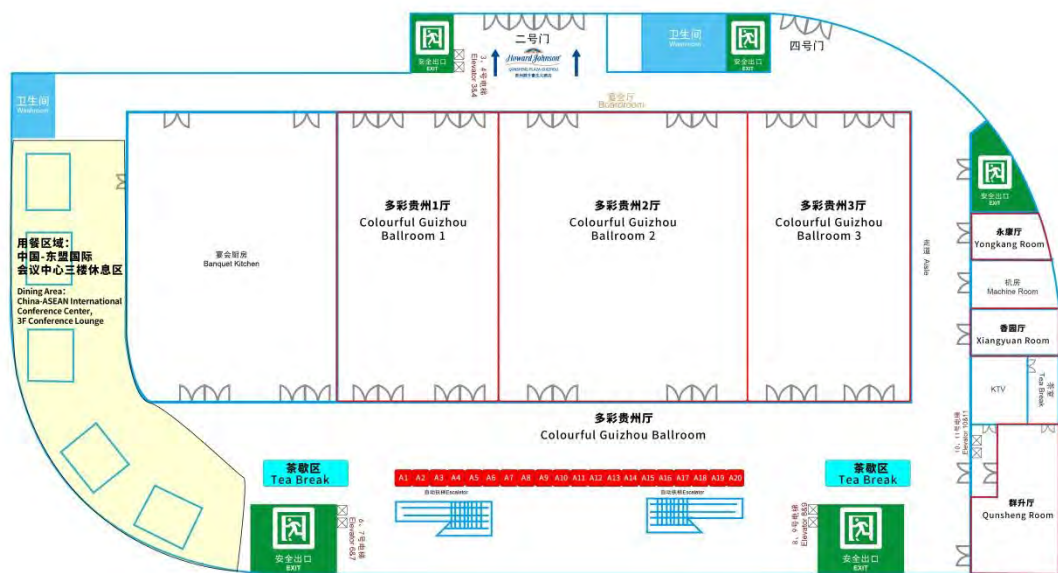
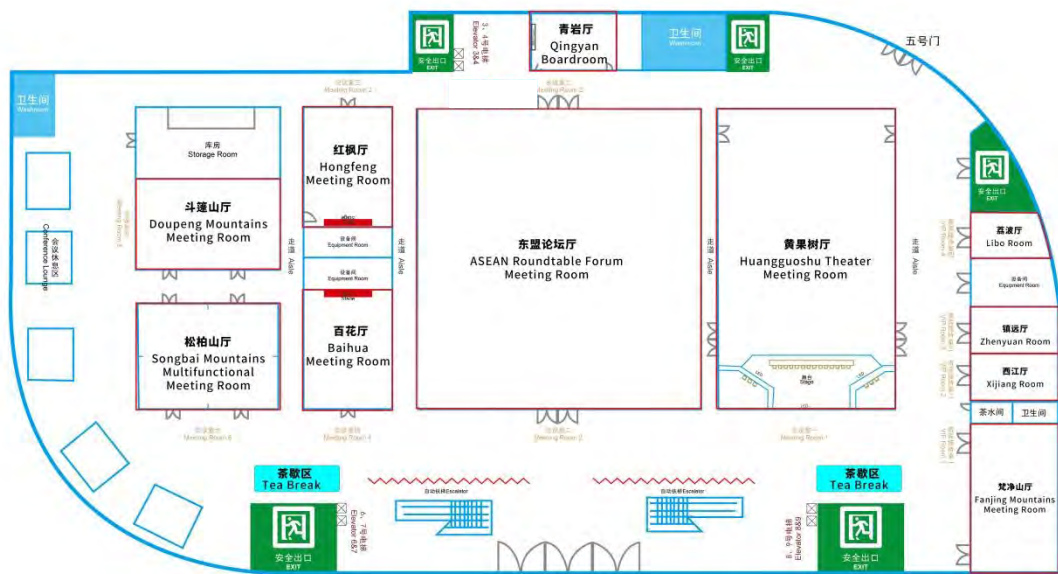
5. Kunpeng Hotel: 973 meters from the conference center, a 15-minute walk

- (1) King Size Bed Room (Breakfast included)
- (2) Twin Bed Room (Breakfast included)

Venue Map



Site Layout



China-ASEAN International Conference Center Site Layout Map

Conference Registration

Hotel Registration

Date	Time	Hotel	Location
July 10, Friday	12:00-21:00	Howard Johnson Qunsheng Plaza Guizhou	Grand Lobby 1st Floor
		Kyriad Marvelous Hotel	Grand Lobby 1st Floor
July 11, Saturday	07:30-17:00	Kyriad Marvelous Hotel	Grand Lobby 1st Floor
	07:30-17:00	Howard Johnson Qunsheng Plaza Guizhou	Grand Lobby 1st Floor
		China-ASEAN International Conference Center	Gate 1 Entrance
July 12, Sunday	07:30-17:00	Howard Johnson Qunsheng Plaza Guizhou	Grand Lobby 1st Floor
		China-ASEAN International Conference Center	Gate 1 Entrance
July 13, Monday	08:00-17:00	Howard Johnson Qunsheng Plaza Guizhou	Grand Lobby 1st Floor
		China-ASEAN International Conference Center	Gate 1 Entrance

During Your Stay

Dining

Date	Meal	Time	Venue
Friday July 10	Dinner	18:00-20:00	锦江凯里亚德酒店二楼自助餐厅 Kyriad Marvelous Hotel, 2F Buffet Restaurant
		18:00-20:30	贵州群升豪生大酒店一楼西餐厅 Howard Johnson Qunsheng Plaza Guizhou, 1F Western Restaurant
Saturday July 11	Lunch	11:50-13:30	贵州群升豪生大酒店一楼西餐厅 Howard Johnson Qunsheng Plaza Guizhou, 1F Western Restaurant 贵州群升豪生大酒店二楼特色餐厅 Howard Johnson Qunsheng Plaza Guizhou, 2F Specialty Restaurant 中国-东盟国际会议中心三楼休息区 China-ASEAN International Conference Center, 3F Conference Lounge
	Dinner	17:30-19:00	贵州群升豪生大酒店一楼西餐厅 Howard Johnson Qunsheng Plaza Guizhou, 1F Western Restaurant 贵州群升豪生大酒店二楼特色餐厅 Howard Johnson Qunsheng Plaza Guizhou, 2F Specialty Restaurant 中国-东盟国际会议中心三楼休息区 China-ASEAN International Conference Center, 3F Conference Lounge
Sunday July 12	Lunch	12:10-13:30	贵州群升豪生大酒店一楼西餐厅 Howard Johnson Qunsheng Plaza Guizhou, 1F Western Restaurant 贵州群升豪生大酒店二楼特色餐厅 Howard Johnson Qunsheng Plaza Guizhou, 2F Specialty Restaurant 中国-东盟国际会议中心三楼休息区 China-ASEAN International Conference Center, 3F Conference Lounge
	Dinner	17:30-19:00	贵州群升豪生大酒店一楼西餐厅 Howard Johnson Qunsheng Plaza Guizhou, 1F Western Restaurant 贵州群升豪生大酒店二楼特色餐厅 Howard Johnson Qunsheng Plaza Guizhou, 2F Specialty Restaurant 中国-东盟国际会议中心三楼休息区 China-ASEAN International Conference Center, 3F Conference Lounge
Monday July 13	Lunch	12:10-13:30	中国-东盟国际会议中心三楼休息区 China-ASEAN International Conference Center, 3F Conference Lounge

Tea Break

During the morning and afternoon tea break sessions, beverages (tea and coffee) as well as light refreshments will be served on the 2nd and 3rd Floors of China-ASEAN International Conference Center.

Conference Badges

Upon registration, participants will receive a conference badge, which must be worn at all times during the conference for access to all sessions and services.

Conference Service Desk

Date	Time	Location
Friday July 10	13:30-18:00	Grand Lobby 1 st Floor Howard Johnson Qunsheng Plaza Guizhou
Saturday July 11	08:30-18:00	Grand Lobby 1 st Floor Howard Johnson Qunsheng Plaza Guizhou
Sunday July 12	08:30-18:00	Grand Lobby 1 st Floor Howard Johnson Qunsheng Plaza Guizhou
Monday July 13	08:30-18:00	Grand Lobby 1 st Floor Howard Johnson Qunsheng Plaza Guizhou

Wifi Access

Participants may access the complimentary wireless network at Howard Johnson Qunsheng Plaza Guizhou via mobile phones or laptops by following the instructions below:

Step 1. Navigate to the Wi-Fi settings interface of your device and choose the corresponding network as applicable:

Public Areas: HOJO qunsheng (password-free)

Guest Rooms: Your room number (Password: 88888888)

Step 2. Upon successful connection to the selected Wi-Fi network, internet access will be available immediately without additional authentication procedures.

Medical Services

During the conference, medical services will be available at the **lobby of the first floor, main building of Howard Johnson Qunsheng Plaza Guizhou**, from **8:30 AM to 6:00 PM daily**.

In case of medical emergency, please **dial 120 immediately** to request an ambulance.

Emergency Contacts

Ambulance 120

Police 110

Weather

July in Guiyang features a pleasant summer climate known as a popular summer retreat, with average daily temperatures ranging from 21 °C to 28 °C (70-82 °F). There is a large temperature difference between day and night, and sudden afternoon showers and thunderstorms are frequent throughout the month. Though daytime temperatures are mild, the high altitude brings strong ultraviolet radiation. We recommend layered outfits with lightweight breathable tops and a thin outer layer for cool evenings. Please bring sunscreen, insect repellent, and a portable sunshade umbrella for both rain and sun protection. It is also advisable to wear non-slip footwear as pavements can become slippery after rain.



Series of Activities

(1) Short Course of the 4th Joint Conference on Statistics and Data Science

Time: July 5-9, 2026

Venue: Guizhou University of Finance and Economics

(2) Young Scholars Workshop of the 4th Joint Conference on Statistics and Data Science

Time: July 9-10, 2026

Venue: Kunpeng Hotel (Guiyang Huaxi University Town)

(3) Tsinghua University Reception

Time: July 11, 2026, 19:00-21:00

Venue: Songbai Mountains Multifunctional Meeting Room, Howard Johnson Qunsheng Plaza

(4) Launch Ceremony of *Statistical Foundations of Data Science*

Time: July 11, 2026, 19:00-20:00

Venue: Third Floor Hall

(5) Peking University Reception

Time: July 11, 2026, 18:30-20:30

Venue: Fanjing Mountains Meeting Room, Howard Johnson Qunsheng Plaza

(6) East China Normal University Reception

Time: July 11, 2026, 19:30-21:30

Venue: Hongfeng Meeting Room, Howard Johnson Qunsheng Plaza

(7) Southeast University Reception

Time: July 11, 2026, 19:30-21:30

Venue: Baihua Meeting Room, Howard Johnson Qunsheng Plaza

(8) Beijing Normal University Reception

Time: July 11, 2026, 19:30-21:30

Venue: Qunsheng Meeting Room, Howard Johnson Qunsheng Plaza

(9) East China Normal University Reception

Time: July 12, 2026, 19:30-21:30

Venue: Baihua Meeting Room, Howard Johnson Qunsheng Plaza

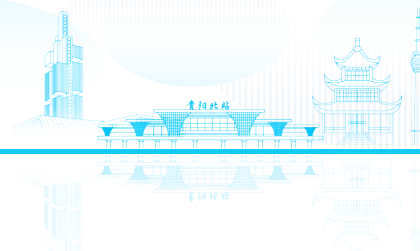
(10) Guizhou University of Finance and Economics Reception

Time: July 12, 2026, 19:30-21:30

Venue: Fanjing Mountains Meeting Room, Howard Johnson Qunsheng Plaza

Program Overview

Day 1 July 11, Saturday			
Time	Content	Location	Chair
08:30-09:00	Opening Ceremony	Colourful Guizhou Ballroom	Zhen Chen
09:00-09:50	Plenary Talk: Nobel Prizes for Data Science (David Donoho)	Colourful Guizhou Ballroom	Jiashun Jin
09:50-10:10	Tea Break		
10:10-11:00	Plenary Talk: Nonparametric Estimators of Nonstationary Densities of Streaming Data (Aurore Delaigle)	Colourful Guizhou Ballroom	Jianqing Fan
11:00-11:50	Plenary Talk: Bridging Minds and Machines: Rethinking Embodied Intelligence and Agentic AI (Bingyi Jing)	Colourful Guizhou Ballroom	Hongyu Zhao
11:50-13:30	Lunch		
13:30-14:40	Dean’s Forum: Development of Statistics and Data Science in the AI Era	ASEAN Roundtable Forum Meeting Room	Song Xi Chen
14:40-15:10	Professor George C. Tiao Memorial Session	ASEAN Roundtable Forum Meeting Room	Song Xi Chen
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs
18:30-19:30	Poster Session	Poster Exhibition Area (2 nd floor)	
17:30-19:00	Dinner		
Day 2 July 12, Sunday			
Time	Content	Location	Chair
08:30-09:20	Plenary Talk: Conditional Generation via Diffusion, Flow, and Schrödinger Bridges (Jun Liu)	Colourful Guizhou Ballroom	Yuantao Hao
09:20-10:10	Plenary Talk: Asymptotic Theory in the AI Era (Qiman Shao)	Colourful Guizhou Ballroom	Linglong Kong
10:10-10:30	Tea Break		



Time	Content	Location	Chair
10:30-11:20	Plenary Talk: Causal Generalist Medical AI (Hongtu Zhu)	Colourful Guizhou Ballroom	Ying Fang
11:20-12:10	“101 Program” Textbook Release Meeting (the Ministry of Education’s Pilot Program in the Fundamental Discipline of Statistics)	Colourful Guizhou Ballroom	Zhaojun Wang
12:10-13:30	Lunch		
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs
17:30-19:00	Dinner		
Day 3 July 13, Monday			
Time	Content	Location	Chair
08:30-10:10	Parallel Sessions		Session Chairs
10:10-10:30	Tea Break		
10:30-12:10	Parallel Sessions		Session Chairs
12:10-13:30	Lunch		
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs

Special Events

Dean's Forum: Development of Statistics and Data Science in the AI Era

Time: July 11, 2026, 13:30-14:40

Venue: ASEAN Roundtable Forum Meeting Room, Howard Johnson Qunsheng Plaza

Chair: Song Xi Chen (Tsinghua University)

Special Guests: Yang Li (Renmin University of China)、Jun Liu (Tsinghua University)、Xuguang Song (Beijing Normal University)、Zhaojun Wang (Nankai University)、Yong Zhou (East China Normal University)、Hongtu Zhu (University of North Carolina at Chapel Hill)

Professor George C. Tiao Memorial Session

Time: July 11, 2026, 14:40-15:10

Venue: ASEAN Roundtable Forum Meeting Room, Howard Johnson Qunsheng Plaza

Chair: Song Xi Chen (Tsinghua University)

Professor Peter Hall Memorial Session

Time: July 11, 2026, 15:30-17:10

Venue: ASEAN Roundtable Forum Meeting Room, Howard Johnson Qunsheng Plaza

Chair: Jiashun Jin (Southeast University)

Special Guests: Tony Cai (University of Pennsylvania)、Aurore Delaigle (University of Melbourne)、David Donoho (Stanford University)、Jianqing Fan (Princeton University)、Xihong Lin (Harvard University)

“101 Program” Textbook Release Meeting (the Ministry of Education's Pilot Program in the Fundamental Discipline of Statistics)

Time: July 12, 2026, 11:20-12:10

Venue: Colourful Guizhou Ballroom, Howard Johnson Qunsheng Plaza

Chair: Zhaojun Wang (Nankai University)

Bernoulli Reception

Time: July 12, 2026, 18:30-19:30

Venue: Hongfeng Meeting Room, Howard Johnson Qunsheng Plaza

Plenary Talks

David Donoho, Stanford University



David Donoho is a professor of statistics at Stanford University, where he is also the Anne T. and Robert M. Bass Professor in the Humanities and Sciences. He has studied the exploitation of sparse signals in signal recovery, including for denoising, superresolution, and solution of underdetermined equations. His research with collaborators showed that ℓ_1 penalization was an effective and even optimal way to exploit sparsity of the object to be recovered. He coined the notion of compressed sensing which has impacted many scientific and technical fields, including magnetic resonance imaging in medicine, where it has been implemented in FDA-approved medical imaging protocols and is already used in millions of actual patient MRIs. He is a Member of the United States National Academy of Sciences, and has received many awards including the COPSS Presidents' Award in 1994, the Norbert Wiener Prize in Applied Mathematics 2010, the Shaw Prize in Mathematics in 2013 and the Gauss Prize from IMU in 2018, etc.

Time: July 11, 09:00-09:50

Venue: Colourful Guizhou Ballroom

Title: Nobel Prizes for Data Science

Abstract: The 2024 Nobel 'Hard Science' Prize announcements continue a recent tradition of Data-Science adjacent (DSa) prize awards. The announcements stirred controversy among commentators for, in some cases, the nontraditional (non-physics/non-chemistry) laureates they celebrated, and – in other cases – the seeming lack-of-fit between the actual achievements and the justifications which were produced. Part of the problem was the very large role that ambitious Data Science achievements played in both awards, as compared to the rather feeble role of traditional theoretical Physics or Chemistry scholarship; the Nobel committee was not well equipped to discuss the actual achievements. The well-understood templates of recognition which governed earlier awards no longer applied in 2024; but it was not yet clear what new templates (if any) govern the 2024 awards or – crucially – awards to come.

I propose several new templates of recognition that are beginning to describe Nobel or Nobel-adjacent recognition – and show how they arise from new mindsets about the importance of new intellectual media such as code and data archives and leader boards and benchmarks rather than old intellectual media such as books and journals.

Those operating under the old templates and following social media might snark that both the Chemistry and Physics 2024 prizes went to the wrong people. Instead, I claim that we will soon understand the 2024 Prizewinner achievements differently. The changing intellectual media landscape is upsetting previous traditions and may soon refocus attention on the rather enormous contributions of scientists who have toiled in relative obscurity for decades to make such achievements possible. In particular I suggest that the disruptive 2024 awards pave the way for recognition of new types of contributions by new groups of Nobel-worthy laureates whom we name and discuss. New Nobel-level prizes will be require.

Plenary Talks

Aurore Delaigle, University of Melbourne



Aurore Delaigle is a Professor and ARC Future Fellow in the Department of Mathematics and Statistics at the University of Melbourne, Australia. Her research interests include nonparametric statistics, deconvolution and functional data analysis. Following her undergraduate degree in mathematics at Université catholique de Louvain, Belgium, she completed a PhD in statistics at the same institution on kernel estimation in deconvolution problems. In her early career, she undertook a postdoctoral fellowship at University of California, Davis, before joining University of California, San Diego as an assistant professor. She was also a Reader at the University of Bristol. In 2014, she was promoted to Professor at the University of

Melbourne.

While at UC San Diego, she was awarded a Hellman Fellowship (2006–07). In 2013, she was awarded the Moran Medal from the Australian Academy of Science, for her contribution to “contemporary statistical problems”. From 2013 to 2018, she is an ARC Future Fellow, investigating new nonparametric statistical methods. She is a Fellow of the Institute of Mathematical Statistics for her work in “non-parametric function estimation, measurement error problems, and functional data”. She is also an elected member of the International Statistical Institute. In 2018 she became a Fellow of the American Statistical Association and in May 2020 she was elected Fellow of the Australian Academy of Science.

Time: July 11, 10:10-11:00

Venue: Colourful Guizhou Ballroom

Title: Nonparametric Estimators of Nonstationary Densities of Streaming Data

Abstract: We consider nonparametric estimation of the nonstationary density of streaming data collected continuously over time. Those data are typically not entirely accessible at all times, and analyzing them requires dynamic approaches that do not require repeated access to past data. Several nonparametric estimators of nonstationary densities have been suggested in the literature, which all require choosing important tuning parameters at each time. We study theoretical properties of those estimators and propose a data-driven dynamic selection of their tuning parameters, which can be implemented iteratively and requires only sequential access to consecutive blocks of the most recent data, and which includes a selection of the sizes of the blocks. We illustrate the procedure through simulated and real streaming data.

Plenary Talks

Bingyi Jing, The Chinese University of Hong Kong, Shenzhen



Bingyi Jing is a Duan Family Presidential Chair Professor at the School of Artificial Intelligence of the Chinese University of Hong Kong, Shenzhen (CUHK-SZ); a Professor at the Shenzhen Loop Area Institute (SLAI). He is a Nationally Distinguished Expert, a recipient of the Second Prize of the National Natural Science Award, a Changjiang Scholar Chair Professor appointed by the Ministry of Education, and also a recipient of the Second Prize of the Ministry of Education's Natural Science Award for Universities. He is a Fellow of the American Statistical Association (ASA Fellow), a Fellow of the Institute of Mathematical Statistics (IMS Fellow), and an Elected Member of the International Statistical Institute (ISI Elected

Member). Additionally, he serves as the Chairman of the Multivariate Analysis Committee of the Chinese Society for Applied Statistics. He has successively held the position of associate editor for several international academic journals. His research interests include probability and statistics, econometrics, network data, machine learning, bioinformatics, and large models, among other areas. He has published over one hundred papers in top journals and conferences in the fields of probability and statistics, machine learning, and artificial intelligence—including AoS, JRSS-B, JASA, Biometrika, AoP, JoE, JMLR, NeurIPS, ICLR, ICML etc. With extensive experience in industry collaborations, he has been honored with the Huawei Spark Award and the Huawei Excellent Collaborative Achievement Award.

Time: July 11, 11:00-11:50

Venue: Colourful Guizhou Ballroom

Title: Bridging Minds and Machines: Rethinking Embodied Intelligence and Agentic AI

Abstract: As foundation models approach their scaling limits, the path to AGI demands more than pretraining alone. This talk explores two converging frontiers—embodied intelligence and agentic AI—that aim to answer the central question of our era: How can machines truly augment human minds? We examine why physical embodiment may be essential for grounded intelligence, yet fraught with challenges like manipulation, sim-to-real transfer, and the overengineering trap. In parallel, agentic AI is emerging as a powerful digital counterpart—learning, reasoning, and acting autonomously in the virtual world with unprecedented scalability and speed. By comparing these two paradigms, we argue that agents may not only unlock new capabilities today but also illuminate the path toward learning in the real world.

Plenary Talks

Jun Liu, Tsinghua University



Jun Liu is currently a Member of the U.S. National Academy of Sciences, Xinghua Distinguished Chair Professor at Tsinghua University, and Director of the Department of Statistics and Data Science. He earned his Bachelor of Science degree in Mathematics from Peking University in 1985 and his Ph.D. in Statistics from the University of Chicago in 1991. Between 1991 and 2025, he held Assistant, Associate, and Full professorship in the Department of Statistics at Harvard University and Stanford University. Additionally, he held positions including Co-Editor of the Journal of the American Statistical Association (JASA) and Associate Editor of numerous leading international statistical journals. In 2015, he led the establishment of the Center for Statistical Science at Tsinghua University and served as its Honorary Director until 2024.

In July 2024, he became Head of the Preparatory Committee for the establishment of the Department of Statistics and Data Science at Tsinghua University.

Jun Liu's research spans Bayesian theory, Monte Carlo methods, statistical machine learning, and bioinformatics, with far-reaching impacts on the fields of machine learning, biomedicine, and artificial intelligence. Liu won the COPSS Presidents' Award in 2002, the highest honor in the U.S. statistical community; the Morningside Gold Medal in Applied Mathematics at the International Congress of Chinese Mathematicians in 2010; and the Pao-Lu Hsu Award by the International Chinese Statistical Association in 2016. He was elected to Fellow of the Institute of Mathematical Statistics in 2004, Fellow of the American Statistical Association in 2005, and Fellow of the International Society of Computational Biology in 2022. He has published over 300 papers and one monograph in top-tier international academic journals and edited volumes, with nearly 100,000 citations (per Google Scholar). To date, he has supervised more than 40 doctoral students and over 30 postdoctoral researchers.

Time: July 12, 08:30-09:20

Venue: Colourful Guizhou Ballroom

Title: Conditional Generation via Diffusion, Flow, and Schrödinger Bridges

Abstract: Generative modeling has become a popular topic and powerful tool in AI. Conditional generation (or sampling) refers to tasks of generating targets that met certain prespecified conditions. In the training-free setting, a pretrained unconditional model is reused as a prior and combined with a task-specific likelihood to sample from the corresponding posterior, without retraining the generative model. Recently, sequential Monte Carlo (SMC, aka particle filtering) techniques have been employed for such tasks via both diffusion and flow-based generative models. We will describe some of these advances. Furthermore, training-free conditional sampling for Schrödinger bridge (SB) generative models remains unexplored, despite the growing appeal of SBs as flexible stochastic transport models between general source and target distributions. We will describe BridgeTwist, a training-free conditional sampler for pretrained SB generative models, formulated as a tempered twisted SMC scheme. Two key steps in SMC are (a) a good sampling distribution (or a good way to “twist” the particle generation); and (b) an effective resampling scheme, whose role is to guide resources towards promising particles. We will review some approaches for conducting these two main steps in both diffusion, flow, and SB models. We also propose Wasserstein-Dirichlet resampling (WDR). WDR first constructs an empirical measure that optimally approximates the weighted particle distribution in the Wasserstein sense by solving a free-support Wasserstein barycenter problem. To balance geometric fidelity with Monte Carlo variability, WDR further employs a Dirichlet mixing mechanism that randomizes the optimal coupling. This talk is based on the joint work with Qianqian Qu, Mengyu Li and Cheng Meng.

Plenary Talks

Qiman Shao, Southern University of Science and Technology



Qiman Shao is the founding department head and Chair Professor of the Department of Statistics and Data Science at the Southern University of Science and Technology. He graduated from Hangzhou University (now Zhejiang University) in 1983, earned his master's degree in 1986, and received his PhD from the University of Science and Technology of China in 1989. He has held faculty positions at Hangzhou University, National University of Singapore, University of Oregon, Hong Kong University of Science and Technology, and The Chinese University of Hong Kong.

Shao's research focuses on fundamental probability and statistics theory. He advanced the self-normalized limit theory, establishing self-normalized large and moderate deviation theorems; refined Stein's method for normal and non-normal approximation; and developed limit theory for dependent variables, including important moment and probability inequalities. Shao was awarded the Second Prize of the National Natural Science Award of China (2015, principal recipient) and was an invited speaker at the 2010 International Congress of Mathematicians. He was elected a Fellow of the Institute of Mathematical Statistics (2001) and served on the editorial boards of The Annals of Statistics and The Annals of Applied Probability, becoming the first scholar of Chinese descent to serve as Co-Editor of the latter. He has published three monographs with Springer and over 180 papers, including one in the Journal of the American Mathematical Society. His publications have garnered over 13,000 citations on Google Scholar. His research has been widely cited by renowned international scholars and applied across fields such as high-dimensional statistical inference, econometrics, genetics, bioengineering, physics, and machine learning.

Time: July 12, 09:20-10:10

Venue: Colourful Guizhou Ballroom

Title: Asymptotic Theory in the AI Era

Abstract: Classical asymptotic theory has long provided the mathematical foundation for statistical inference. Yet, this framework faces profound challenges in the AI era. This talk offers a new look at asymptotic theory through two powerful lenses: self-normalization and Stein's method. Self-normalization provides a way to construct pivotal statistics without relying on consistent variance estimation, making it particularly attractive in high-dimensional or unstable regimes. Stein's method, in turn, offers a flexible framework for proving distributional approximations-including non-Gaussian limits-by measuring distance between probability laws via Stein operators, which naturally accommodates dependence and algorithmic structure. We then examine how asymptotic theory is being redefined in the AI era, covering double descent, random matrix universality, mean-field limits, and the shift from parameter consistency to risk consistency. The talk concludes with open directions: multi-scale asymptotics and algorithm-dependent limit theorems.

Plenary Talks

Hongtu Zhu, University of North Carolina at Chapel Hill



Hongtu Zhu is the Kenan Distinguished Professor of Biostatistics, Statistics, Radiology, Computer Science and Genetics at the University of North Carolina at Chapel Hill. He was a DiDi Fellow and Chief Scientist of Statistics at DiDi Chuxing between 2018 and 2020 and held the Endowed Bao-Shan Jing Professorship in Diagnostic Imaging at MD Anderson Cancer Center between 2016 and 2018. He is an internationally recognized expert in statistical learning, medical image analysis, precision medicine, biostatistics, artificial intelligence, and big data analytics. He received an established investigator award from the Cancer Prevention Research Institute of Texas in 2016, the INFORMS Daniel H. Wagner Prize for Excellence in Operations Research Practice in 2019, the IMS 2027 Medallion award and Lecture, and the COPSS 2025 Snedecor Award. He has published more than 345 papers in top journals, including Nature, Science, Cell, Nature Genetics, Nature Communication, PNAS, AOS, JASA, Biometrika, and JRSSB, as well as presenting 58+ conference papers at top conferences, including meetings for Neurips, ICLR, ICML, AAAI, and KDD. He is the coordinating editor of JASA and the editor of JASA ACS.

Time: July 12, 10:30-11:20

Venue: Colourful Guizhou Ballroom

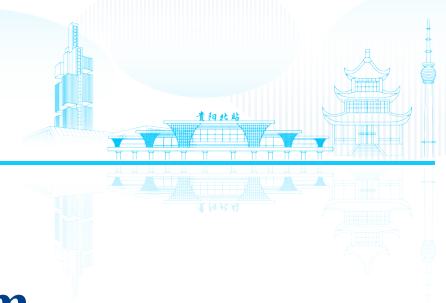
Title: Causal Generalist Medical AI

Abstract: The rapid evolution of flexible and reusable artificial intelligence (AI) models is reshaping modern medical science. In this talk, I introduce Causal Generalist Medical AI (Causal GMAI)—a new paradigm that integrates causal inference with generalist AI models to enhance interpretability, robustness, and generalizability in medical decision-making. Causal GMAI leverages self-supervised, semi-supervised, and supervised learning across diverse multimodal data sources, including medical imaging, electronic health records, clinical trials, laboratory measurements, genomics, knowledge graphs, and clinical text. This unified framework enables a single model to perform a broad range of clinical and translational tasks with minimal task-specific supervision. By explicitly incorporating causal reasoning, Causal GMAI moves beyond purely predictive modeling to infer underlying causal mechanisms. This capability improves diagnostic accuracy, supports more reliable treatment recommendations, and advances personalized and precision medicine. The talk will highlight the methodological foundations, illustrative applications, and future opportunities for building trustworthy, clinically actionable AI systems.

Poster Session

NO.	Name	Organization	Title
1	蒋玉琼	江西财经大学	外部冲击下中国经济安全风险指数研究：基于 SRP 框架的量化分析
2	葛根哈斯	内蒙古财经大学	政府补贴与公平关切下绿色农产品供应链数字化转型与动态协调机制研究
3	刘 金	内蒙古财经大学	基于大数据的低空经济政策实施效果评价与组态路径分析
4	王浩吉	内蒙古财经大学	资源依赖型城市 PM2.5 中水溶性离子的化学计量特征及其经济意义
5	韩 鹏	内蒙古财经大学	高分辨率遥感数据可以预测牧区的家庭财富
6	王 坤	山西财经大学	去偏代理机器学习下消费与工资性收入不平等的年龄效应识别与相关政策研究
7	严魏敏	清华大学	实时超大规模组合优化融合因果推断
8	卢 媛	海南大学	长寿风险对冲视角下养老保险长寿互换合约的定价研究
9	刘凌晨	山西财经大学	新质生产力、人口结构变化与经济高质量发展
10	马 帝	内蒙古财经大学	转移支付对城乡收入差距的非线性效应研究 —— 来自 PSTR 模型的经验证据
11	黄梓洵	北京大学	核回归中的泛函扩展律：损失动力学与学习率格式
12	陈 骋	西南财经大学	高维函数型时间序列聚类的因子模型方法
12	刘宇笛	内蒙古财经大学	数据要素赋能低空经济高质量发展的传导机制及优化路径研究
14	王文星	内蒙古财经大学	Z 世代 AI 推荐的情感转化与消费决策调查研究——以内蒙古高校为例
15	张卓雯	暨南大学	“银”屏对话---银发题材短剧赋能代际沟通的路径探索
16	郑冰妍	Shanghai Jiao Tong University	A Redundancy-Constrained Penalized Deep Cox Model for High-Dimensional Survival Analysis
17	杜友善	Peking University	Continuous Metabolic Trajectory Mapping in MASLD Reveals Cardiovascular Risk Heterogeneity
18	程 怡	Peking University	Automated Staging of Spheno-Occipital Synchondrosis Ossification on CBCT Using a Multi-Modal Attention Fusion Network Based on OMT and Tensor SVD
19	邓贞志	Peking University	Convolutional Neural Network Model for Age Estimation Based on Images of the Spheno-Occipital Synchondrosis
20	陈浩华	Academy of Mathematics and Systems Science	Orthogonal Approximate Message Passing with Optimal Spectral Initializations for Rectangular Spiked Matrix Models
21	刘宋彬	Columbia University	Minimax Rates for High-Dimensional Speckle Models under Phase Uncertainty
22	惠 倩	Fudan University	Classification of Extremal Dependence in Financial Markets via Bootstrap Inference

NO.	Name	Organization	Title
23	李佳讯	University of Michigan, Ann Arbor	On Generation in Metric Spaces
24	卢玄龙	Chongqing Technology and Business University	A Framework Based on Transformer for Carbon Emission Forecasting and Differentiated Decision Support
25	于曙光	Shanghai University of Finance and Economics	Global Average Treatment Effects for Individualized Randomization Experiments with Aggregate Data
26	田质文	Beijing Normal-Hong Kong Baptist University(BNBU)	Reconstructing the Wilkie Economic Scenario Generator Using Dynamic Bayesian Networks
27	王祯仪	Inner Mongolia University of Finance and Economics	Automated Mapping of Land Cover in Google Earth Engine Platform Using Multispectral Sentinel-2 and MODIS Image Products
28	孙博浩	Tsinghua University	Federated Learning in Bivariate Bernoulli Distribution Models
29	关 丽	Beijing University of Technology	Statistical Inference for Interval-Valued Spatial Error Models
30	李岳锴	City University of Hong Kong	Funmap: Integrating High-Dimensional Functional Annotations to Improve Fine-Mapping
31	傅以乐	Renmin University of China	Dance with the Stars, Dance with the Stats
32	罗 路	Yunnan University	Online Differential Privacy Bayesian Optimization with Sliced Wasserstein Compression
33	程素丽	Chongqing Technology and Business University	SETFuse: Transformer-Enhanced Skip-Dense Neural Networks for Time Series Forecasting in Complex Carbon Emissions
34	孙佳琳	East China Normal University	Morphology-Enhanced Whole-Slide Reconstruction of Cell-Resolved Spatial Transcriptomes
35	张 越	Peking University	Orthogonal Policy Learning with Ordinal Outcomes
36	李 洁	Xiamen University	Hyperbaric Oxygen on Embryo Quality Improvement in Poor Ovarian Response Patients Undergoing ART: A Target Trial Emulation
37	韩晓汀	Fudan University	Policy Evaluation for Endogenous Network Dependent Time Series Data
38	王昭文	Shanghai University of International Business and Economics	Heteroscedastic Extremes under Asymptotic Dependence and Independence
39	周新凯	Beijing Normal Hong Kong Baptist University	FLAME: A Model for Duration-Dependent Risk Accumulation in Episodic Temporal Exposures
40	池金玲	Nanyang Normal University	A Zero-Inflated Negative Binomial Factor Model for Microbiome Count Data
41	刘英铎	East China Normal University	SCOPE: A generative Model for Decoding Cellular Evolution from Unpaired Single-Cell Transcriptomic Snapshots via Schrödinger Bridge
42	裴小钰	University of Michigan	Benchmarking Uncertainty Quantification of Plug-and-Play Diffusion Priors for Inverse Problems Solving
43	唐文淇	University of Jyväskylä, Finland	From Zero Handling to Latent Variable Modeling for High-Dimensional Compositional Count Data
44	刘涵嘉	Fudan University	Spectral Deconfounding for Causal Inference from High-Dimensional Perturbed Model



Scientific Program

2026-07-11 08:30-09:00

Opening Ceremony

Venue: Colourful Guizhou Ballroom
Chair: Zhen Chen

2026-07-11 09:00-09:50

Plenary Talk 1

Venue: Colourful Guizhou Ballroom
Chair: Jiashun Jin
09:00 Nobel Prizes for Data Science
David Donoho, Stanford University

2026-07-11 10:10-11:00

Plenary Talk 2

Venue: Colourful Guizhou Ballroom
Chair: Jianqing Fan
10:10 Nonparametric Estimators of
Nonstationary Densities of Streaming
Data
Aurore Delaigle, University of
Melbourne

2026-07-11 11:00-11:50

Plenary Talk 3

Venue: Colourful Guizhou Ballroom
Chair: Hongyu Zhao
11:00 Bridging Minds and Machines:
Rethinking Embodied Intelligence and
Agentic AI
Bingyi Jing, The Chinese University of
Hong Kong, Shenzhen

2026-07-11 13:30-15:10

Invited Session IS001: Networks and Modern Learning

Venue: Colourful Guizhou Ballroom 2
Organizer: Jianqing Fan
Chair: Jianqing Fan
13:30 Counting Cycles with AI
Jiashun Jin, Southeast University
13:55 Dynamic Topic Modeling with a Higher-
Order Hypergraphical Representation
Annie Qu, University of California
Santa Barbara

14:20 Reinforcement Learning in the Physical
World
Yuhua Zhu, University of California, Los
Angeles
14:45 Naive and Optimal Portfolios
Reconciled: A Golden Criterion
Zhengjun Zhang, Beijing University of
Chinese Medicine

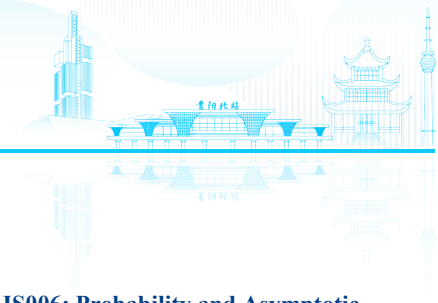
Invited Session IS002: Statistics for Business

Venue: Colourful Guizhou Ballroom 1
Organizing Society: Commerce Statistics Society of
China
Organizer: Kuangnan Fang
Chair: Kuangnan Fang
13:30 Limit Theorems for Network Data
without Metric Structure
Xingbai Xu, Xiamen University
13:55 Time-Varying Factor-Augmented
Forecasting Regressions with
Nonstationarity
Tingting Cheng, Nankai University
14:20 Generalized Tensor Completion with
Non-Random Missingness
Biao Cai, City University of Hong Kong
14:45 Heterogeneous Multisource Transfer
Learning via Model Averaging for
Positive-Unlabeled Data
Kuangnan Fang, Xiamen University

Invited Session IS003: 临床研究与数据监管 2

Venue: Colourful Guizhou Ballroom 3
Organizer: Yuantao Hao
Chair: Zhixing Peng
13:30 新时代人工智能赋能传染病监测预警的理
论与实践
Zhixing Peng, Chinese Center for
Disease Control and Prevention
13:55 Mean-Independent Fair Representation
Learning with Excess-Risk Guarantees
Baiyu Chen, University of Science and
Technology of China
14:20 Assessing Spatial Transmission Risk of
Respiratory Infectious Diseases Across
Urban Tiers in China: A Modelling
Study
Ye Yao, Fudan University

2026-07-11 A.M.



14:45 改写乙肝临床指南的真实世界数据建模分析
Mingwang Shen, Xi'an Jiaotong University

Invited Session IS004: Mathematical Foundations of Deep Learning

Venue: Xiangyuan Room
Organizing Society: IMS China
Organizer: Weijie Su
Chair: Linjun Zhang

- 13:30 Condensation Sheds Light to the Mathematical Foundation of Deep Neural Networks
Yaoyu Zhang, Shanghai Jiao Tong University
- 13:55 A Functional Perspective for Understanding Neural Scaling Laws
Lei Wu, Peking University
- 14:20 The Phi Curve: Generalization Under Suitable Model Capacities in Modern Machine Learning-From Deterministic Equivalence to Function Spaces
Fanghui Liu, Shanghai Jiao Tong University
- 14:45 Data Optimization for LLM Mid-Training and Post-Training
Jingzhao Zhang, Tsinghua University

Invited Session IS005: Recent Advances in Reinforcement Learning

Venue: Qunsheng Room
Organizing Society: IMS China
Organizer: Cong Ma
Chair: Cong Ma

- 13:30 From Nonparametric Statistics to LLM Reasoning
Chengchun Shi, London School of Economics and Political Science
- 13:55 What Should Post-Training Optimize? A Test-Time Scaling Law Perspective
Muheng Li, University of Toronto
- 14:20 Acceleration for Diffusion Models: Theory and Practice
Gen Li, The Chinese University of Hong Kong
- 14:45 The Statistical Price of Few Updates: Efficiency and Adaptivity in Batched Contextual Bandits
Cong Ma, University of Chicago

Invited Session IS006: Probability and Asymptotic Theory

Venue: Xijiang Room
Organizing Society: Bernoulli Society for Mathematical Statistics and Probability
Organizer: Xiao Fang
Chair: Yuta Koike

- 13:30 Sampling Error Bounds for the Denoising Diffusion Probabilistic Model via the Föllmer Process
Yuta Koike, The University of Tokyo
- 13:55 Gaussian Fluctuations of Generalized U-Statistics and Subgraph Counting in the Binomial Random-Connection Model
Nicolas Privault, Nanyang Technological University
- 14:20 Decay of Correlations and Limit Theorems for Random Intermittent Dynamical Systems
Juho Leppanen, Tokai University
- 14:45 Berry-Esseen Bounds for Distributed Studentized Statistics
Zhijun Cai, Southern University of Science and Technology

Contributed Session CS01: Regional and Urban Economics and Experimental Design

Venue: Zhenyuan Room
Chair: Hao Cheng

- 13:30 Privacy-Preserving Multi-Source Transfer Learning for Credit Risk Prediction with Mixture Cure Models
Ankang Jiao, Hunan University
- 13:46 中国城市经济增长的收敛性：来自 284 个城市及六大区域的证据
Yaxing Ji, Xiamen University
- 14:02 Connected Space, Vibrant City: The Impact of Public Service Accessibility on Service Consumption Vitality
Shucheng Liu, Xiamen University
- 14:18 Gaussianized Design Optimization for Covariate Balance in Randomized Experiments
Wenxuan Guo, University of Chicago
- 14:34 安徽省低空经济产业链发展协同度测度及经济效应分析
Hao Song, Chaohu University

2026-07-11 P.M.

14:50 Efficient Imputation Methods in Functional Structural Equation Model with Missing Data
Hao Cheng, Minzu University of China

Invited Session IS007: Federated Learning and Statistical Data Privacy

Venue: Libo Room

Organizing Society: Chinese Society for Probability and Statistics

Organizer: Wenguang Sun, Sheng Yu

Chair: Yajie Bao

13:30 Learning Sparse Support under Differential Privacy: Minimax Rates and Adaptive Algorithms
Jia Gu, Zhejiang University

13:55 Differentially Private Minimax and Adaptive Bandable Covariance Matrix Estimation
Yicheng Li, East China Normal University

14:20 Private Decentralized Federated Learning with Random Walk
Chendi Wang, Xiamen University

14:45 Statistical Inference for Differentially Private Stochastic Gradient Descent
Xintao Xia, Zhejiang University

Invited Session IS008: Statistics for Finance, Economics and Business

Venue: Baihua Meeting Room

Organizer: Qiwei Yao

Chair: Baojun Dou

13:30 Testing for Granger Causality in Extreme Risk: A Two-Stage Generalized Cross-Spectral Approach
Yongmiao Hong, University of Chinese Academy of Sciences

13:55 Network Analysis of Business Cycle Synchronisation
Jia Chen, University of Macau

14:20 Forecasting Global Economy with SIGMAR: Sparsity-Induced Global Matrix Autoregressive Model
Dan Yang, The University of Hong Kong

14:45 Pairs Trading: A Change Point Perspective
Baojun Dou, City University of Hong Kong

Invited Session IS009: Statistical Innovation for Trustworthy AI

Venue: Hongfeng Meeting Room

Organizer: Linglong Kong

Chair: Jinhan Xie

13:30 A Successive Classification Learning for Estimating Quantile Optimal Treatment Regimes
Dehan Kong, University of Toronto

13:55 Model-Free Checking Meets Cross-Domain Data: A Transfer Learning Approach
Wangli Xu, Renmin University of China

14:20 AI Safe: Statistical Methods for Security Protection from Small to Large Models
Xiaodong Yan, Xi'an Jiaotong University

14:45 Location-Scale Quantile Regression with Functional Responses
Lingzhu Li, Beijing University of Technology

Invited Session IS010: Generative AI and Synthetic Data-Powered Statistical Inference

Venue: Doupeng Mountains Meeting Room

Organizer: Xihong Lin

Chair: Xihong Lin

13:30 Harnessing Synthetic Data from Generative AI for Statistical Inference
Xihong Lin, Harvard University

13:55 Enhancing Protein Sequence Analysis with Synthetic Data and Foundation Models
Jian Huang, The Hong Kong Polytechnic University

14:20 LLM-Powered Deep Panel Modeling
Jingyuan Liu, Xiamen University

14:45 Generative AI on Smooth Manifold
Haoda Fu, Amgen

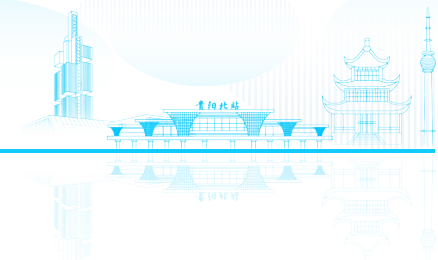
Invited Session IS011: Statistical Methods for Empirical Asset Pricing

Venue: Songbai Mountains Multifunctional Meeting Room

Organizer: Wei Lan

Chair: Wei Lan

13:30 Estimation of Treatment Effects Without Ignorability Using Observational Studies
Guoliang Ma, Xiamen University



- 13:55 The Ties That Bind: Portfolio Construction and Factor Momentum
Siyuan Ma, Southwestern University of Finance and Economics
- 14:20 Testing Asset Pricing Factor Models: An Out-of-Sample Perspective
Jun Zhang, Southeast University
- 14:45 Granular Instrumental Variables: Estimation and Inference
Wenyu Zhou, Zhejiang University

Invited Session IS012: Modern Sampling Techniques and Applications

Venue: Qingyan Boardroom
Organizer: Guohua Zou
Chair: Wangxue Chen

- 13:30 Imperfect Extreme Ranked Set Sampling Design: A Framework for Robust and Efficient Inference
Wangxue Chen, Jishou University
- 13:55 面向视频数据的抽样调查设计与预测增强推断方法研究
Hengjun Huang, Lanzhou University of Finance and Economics
- 14:20 Research on Dual-System Estimator Based on Census and Mobile Phone Number Data
Guijun Yang, Tianjin University of Finance and Economics
- 14:45 Design and Application of Dynamic Composite Sampling Method Based on the Occurrence Location of Economic Activities
Wei qun Zhang, Xi'an University of Finance and Economics

Invited Session IS013: Advances in Causal Inference and Adaptive Learning

Venue: Fanjing Mountains Meeting Room
Organizer: Jingfei Zhang
Chair: Jingfei Zhang

- 13:30 Unsupervised Federated Multi-Task Learning for Heterogeneous Tasks
Yang Feng, New York University
- 13:55 SMS: Symmetric Mediation Statistics for Powerful High-Dimensional Mediation Analysis
Yijuan Hu, Peking University

- 14:20 Optimizing Dynamic Treatment Regimes under Spatial Interference: Evidence from COVID-19 School Closures
Yunan Wu, Tsinghua University
- 14:45 Hierarchical Projection for Adaptive Knowledge Transfer
Tian Gu, Columbia University

Invited Session IS014: Statistical Learning on Networks and Matrices

Venue: Huangguoshu Theater Meeting Room
Organizer: Rui Pan
Chair: Yan Zhang

- 13:30 Nodal Covariate Selection for Community Structures
Junlong Zhao, Beijing Normal University
- 13:55 Common Component Recovery in Heterogeneous Chain-Linked Multiple Matrices
Xinyan Fan, Renmin University of China
- 14:20 Hidden Block Regression: A General Framework for Multi-Response Models with Group Structures and Hidden Variables
Yuehan Yang, Central University of Finance and Economics
- 14:45 A General Exposure-Mapping-Agnostic Framework for Causal Inference under Interference Leveraging Two-Stage Randomization
Yihui He, University of Pennsylvania

Contributed Session CS02: Variable Selection and FDR Control and Change Point Detection

Venue: Executive Meeting Room, 12th Floor, Qunsheng Howard Johnson
Chair: Xueli Wang

- 13:30 To Split or Not to Split: Valid Inference and Adaptive Stopping for Graph Segmentation
Jiajing Chen, Xiamen University
- 13:46 Interval Localization with Error Rate Control in Multiple Change-Point Analysis
Zijian Wei, Shanghai Jiao Tong University

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- 14:02 Powerful Derandomized Knockoff: A Powerful and Reproducible FDR Control Approach
Changhan Jin, Beijing Normal University
- 14:18 FDR Control and Statistical Power for High-Dimensional Semiparametric Transformation Models
Gaorong Li, Beijing Normal University
- 14:34 Optimal Estimators and Tests for Reciprocal Effects
Yaru Tian, Southeast University
- 14:50 Mediation Analysis with Parallel Multiple Mediators: Missing Not at Random
Xueli Wang, Beijing Technology and Business University

Contributed Session CS03: Uncertainty Quantification and Robust Learning: From Conformal Prediction to Generative Models

- Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel
Chair: Sheng Jiang
- 13:30 Locally-Calibrated Split Conformal Prediction
Kehan Wang, Renmin University of China
- 13:46 Distributed Tensor Principal Component Analysis with Data Heterogeneity
Wenbo Jing, City University of Hong Kong
- 14:02 统计数据增强及其在遥感图像智能解译中的应用
Chen Zheng, Henan University
- 14:18 Conformal Robustness Control: A New Strategy for Robust Decision
Yang Hu, Shanghai Jiao Tong University
- 14:34 Statistical Subgraph Explanations for Graph Neural Networks via Latent Node Inference
Tianqi Zheng, Minzu University of China
- 14:50 Errors-in-Variables Gaussian Processes for Mixed-Input Regression
Sheng Jiang, The Chinese University of Hong Kong, Shenzhen

2026-07-11 15:30-17:10

Invited Session IS015: Learning, Inference, and Influence: New Frontiers in Data and AI

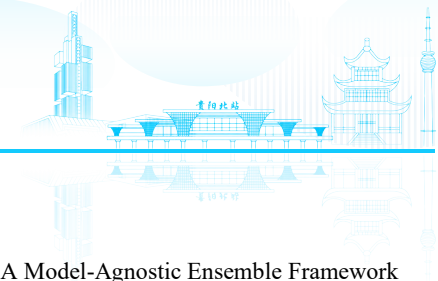
- Venue: Colourful Guizhou Ballroom 2
Organizer: Yang Feng
Chair: Yang Feng
- 15:30 Few-Shot Personalization for Nonparametric Regression with Minimax Optimality
Sai Li, Tsinghua University
- 15:55 Statistical Inference for Large Potts Models
Zhao Ren, University of Pittsburgh
- 16:20 Stance Draft: How AI Middlemen Change What We Mean
Xin Tong, The University of Hong Kong
- 16:45 Designing Randomized Experiments under Network Interference
Jingfei Zhang, Emory University

Invited Session IS016: AI for Complex Systems: Methods and Applications

- Venue: Colourful Guizhou Ballroom 1
Organizer: Bingyi Jing
Chair: Jing Zhou
- 15:30 Flexformer: Flexible Linear Transformer with Learnable Attention Kernel
Feng Zhou, Renmin University of China
- 15:55 Communication-efficient Distributed Statistical Analysis under Differential Privacy
Haobo Qi, Beijing Normal University
- 16:20 Multiple Instance Learning for Multi-Label Data
Xuetong Li, Xi'an Jiaotong University
- 16:45 LUMEN: A Large-Language-Model Guided Unified Multimodal Framework for Robust Prediction of Pulmonary Dysfunction
Jing Zhou, Renmin University of China

Invited Session IS017: Statistical AI Methods for Health and Medicine

- Venue: Colourful Guizhou Ballroom 3
Organizer: Jun Wen
Chair: Jun Wen
- 15:30 Beyond Next-Token Prediction: A Health State Trajectory Model
Sheng Yu, Tsinghua University



- 15:55 Modeling and Predicting Single-Cell Multi-Gene Perturbation Responses
Hongyu Zhao, Yale University
- 16:20 Agentic AI for Life Science
Weidi Xie, Shanghai Jiao Tong University
- 16:45 Algorithm-Dependent Learning Analysis of Over-Parameterized Neural Networks
Yuan Cao, The University of Hong Kong

Invited Session IS018: Interacting Particle System and Related Models

- Venue: Xiangyuan Room
Organizing Society: IMS China
Organizer: Xinxin Chen
Chair: Xinxin Chen
- 15:30 分数 ARIMA 过程的阶选择
Chunhao Cai, Sun Yat-sen University
- 15:55 On Phase Transition of a Multi Particle Pool Model
Yuan Zhang, Renmin University of China
- 16:20 Shape of Large Feynman Cycles under BEC
Wen Sun, University of Science and Technology of China
- 16:45 Statistical Learning Problems in IPS: Learning Multi-Type Heterogeneous Interacting Particle Systems
Xiong Wang, Sun Yat-sen University

Invited Session IS019: Recent Advances in Statistical Methods and Theory

- Venue: Qunsheng Room
Organizing Society: IMS China
Organizer: Cong Ma
Chair: Cong Ma
- 15:30 Nonlinear Alignment and Joint Embedding of High-Dimensional Data
Rong Ma, Harvard University
- 15:55 Aggregating Dependent Signals: Validity and Power of Heavy-Tailed Combination Tests
Jingshu Wang, University of Chicago
- 16:20 Data Reconstruction: Identifiability and Optimization with Sample Splitting
Qi Lei, New York University

- 16:45 A Model-Agnostic Ensemble Framework for Feature Selection via Adaptive Minipatch Subsampling
Lili Zheng, University of Illinois Urbana-Champaign

Invited Session IS020: Financial Econometrics

- Venue: Xijiang Room
Organizer: Ying Fang
Chair: Ying Fang
- 15:30 Multi-Task with Auxiliary Information for Massive Data and Applications
Yong Zhou, East China Normal University
- 15:55 Fixed-k Inference for Explosive Drift
Jia Li, Singapore Management University
- 16:20 Asset Pricing Models with Network Effects
Kunpeng Li, Capital University of Economics and Business
- 16:45 Prediction-Powered Linear Regression: A Balance between Interpretation and Prediction
Xinyu Zhang, Chinese Academy of Sciences

Invited Session IS021: Recent Advances in Network Analysis

- Venue: Zhenyuan Room
Organizer: Jiashun Jin
Chair: Jingming Wang
- 15:30 Statistical Inference for Latent Space Models of Network Data with Edge Covariates
Ji Zhu, University of Michigan
- 15:55 Non-Asymptotic Gaussian Approximation for Two-Timescale Stochastic Approximation
Vladimir Ulyanov, Moscow State University
- 16:20 Causal Mediation Analysis with Partially Observed Mediators
Jin Zhou, University of California, Los Angeles
- 16:45 Towards Robust Machine Learning under Imperfect Data
Ruizhi Pu, Southeast University

2026-07-11 P.M.

Invited Session IS022: Trustworthy and Privacy-Preserving Statistical Learning

Venue: Libo Room

Organizer: Jinyuan Chang

Chair: Jinyuan Chang

- 15:30 Knockoffs Inference under Privacy Constraints
Lan Gao, University of Tennessee, Knoxville
- 15:55 Training-Free Multi-Agent Language Models
Xiaowu Dai, University of California, Los Angeles
- 16:20 A Sparse Learning Framework for High-Dimensional Newsvendor under Privacy Constraints
Yichen Zhang, Purdue University
- 16:45 Adapting to Noise Tails in Private Linear Regression
Wenxin Zhou, University of Illinois Chicago

Invited Session IS023: Learning for Voice, Adversarials, Digital Twin and Changepoints

Venue: Baihua Meeting Room

Organizer: Song Xi Chen

Chair: Song Xi Chen

- 15:30 Accent Matters: Communication Costs and Information Content in Analyst-Manager Dialogue
Feng Li, Peking University
- 15:55 USAD: Uncertainty-Aware Statistical Adversarial Detection
Lihua Peng, University of Melbourne
- 16:20 Digital Twin for Behavior Change Interventions: A Case Study on HeartSteps Trials
Hang Zhou, UNC Chapel-Hill
- 16:45 Spatial-Sign Based High Dimensional Change Point Inference
Long Feng, Nankai University

Invited Session IS024: Statistical Perspectives on Causal Inference and Modern Machine Learning

Venue: Hongfeng Meeting Room

Organizing Society: Bernoulli Society for Mathematical Statistics and Probability

Organizer: Xingqiu Zhao

Chair: Xingqiu Zhao

- 15:30 A Bayesian Nonparametric Framework for Private, Fair, and Balanced Tabular Data Synthesis
Linglong Kong, University of Alberta
- 15:55 Identification and Inference with Many Weak Interaction Moments
Zhonghua Liu, Columbia University
- 16:20 Double Machine Learning of Continuous Treatment Effects with General Instrumental Variables
Yifan Cui, Zhejiang University
- 16:45 A General Framework for Fair and Robust Regression
Wen Su, City University of Hong Kong

Invited Session IS025: Some Aspects Related to Feature Learning

Venue: Doupeng Mountains Meeting Room

Organizer: Qian Lin

Chair: Qian Lin

- 15:30 High-Dimensional Online Learning via Asynchronous Decomposition
Zhifan Li, Zhongnan University of Economics and Law
- 15:55 求解高维问题的机器学习算法
Hehu Xie, Chinese Academy of Sciences
- 16:20 Sampling Complexity of Temporal Difference and PPO in RKHS
Ding Liang, Fudan University
- 16:45 In-Context Learning as Nonparametric Conditional Probability Estimation: Risk Bounds and Optimality
Falong Tan, Hunan University

Invited Session IS026: Modern Statistical Methods for Complex Data Problems

Venue: Songbai Mountains Multifunctional Meeting Room

Organizer: Yumou Qiu

Chair: Shuyi Zhang

- 15:30 Prediction-Powered Inference for AI-Based Phenotyping from Maize Field Images
Peng Liu, Iowa State University
- 15:55 Bregman Projection for Calibration Estimation in Survey Sampling
Yonghyun Kwon, Korea Military Academy



- 16:20 粒数据理论：面向事件完整性的数据治理
数理框架与高质量数据集建设
Yushan Xue, Central University of
Finance and Economics
- 16:45 Gene Ontology DAG-Aware Conformal
FDR Control for Multi-Label Protein
Function Prediction: A Maize
Application
Chong Wang, Iowa State University

Invited Session IS027: Prediction-Powered Inference and Network Data Analysis

- Venue: Fanjing Mountains Meeting Room
Organizer: Kuangnan Fang
Chair: Yongqin Qiu
- 15:30 When Less Is More: Binary Feedback
Can Outperform Ordinal Comparisons in
Ranking Recovery
Shirong Xu, Xiamen University
- 15:55 Penalized Network Cross-Validation for
Nested Models by Edge-Sampling
Yuanxing Chen, Tsinghua University
- 16:20 Inference for Network-Linked Data with
Latent Position
Dan Pu, Southwestern University of
Finance and Economics
- 16:45 A Generalized Network Autoregressive
Model with Endogenous Aggregation
and Heterogeneous Influence
Yan Zhang, Shanghai University of
International Business and Economics

Invited Session IS028: Model Averaging and Related Spheres (MARS)

- Venue: Qingyan Boardroom
Organizer: Xinyu Zhang
Chair: Ziwen Gao
- 15:30 Site-Varying Spatial Autoregression:
Spatial Heterogeneity and Model
Uncertainty
Jun Liao, Renmin University of China
- 15:55 Model Averaging for Support Vector
Classifier
Jiahui Zou, Capital University of
Economics and Business
- 16:20 Generalized Transfer Learning Based on
Mallows Model Averaging
Fen Jiang, University of Science and
Technology of China
- 16:45 Combining Pre-Trained Large Models
Based on Localized Model Averaging
Ziwen Gao, Tsinghua University

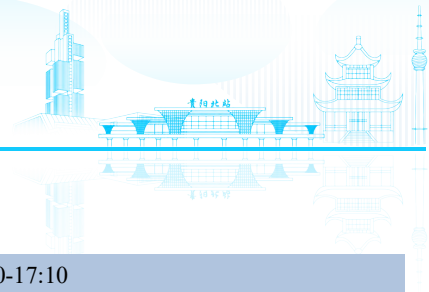
Invited Session IS029: Inference in Statistical Models for Network Data

- Venue: Huangguoshu Theater Meeting Room
Organizer: Ting Yan
Chair: Ting Yan
- 15:30 Hypergraph Embeddings
Binyan Jiang, The Hong Kong
Polytechnic University
- 15:55 Optimal Clustering by Lloyd Algorithm
for Low-Rank Mixture Model
Dong Xia, Hong Kong University of
Science and Technology
- 16:20 混合动态随机块模型下离散时间时序网络
的快速社区检测
Binghui Liu, Northeast Normal
University
- 16:45 Triple-Dyad Ratio Estimation for the p1
Model
Ting Yan, Central China Normal
University

Contributed Session CS04: Variable Selection and FDR Control and Network and Graphical Models

- Venue: Executive Meeting Room, 12th Floor,
Qunsheng Howard Johnson
Chair: Yupeng Wei
- 15:30 Group-Sparse Smoothing for
Longitudinal Models with Time-Varying
Coefficients
Yu Lu, Xi'an Jiaotong-Liverpool
University
- 15:46 基于 Huber 损失的函数型数据稳健网络估计
Yingmeng Li, Shanghai University of
Finance and Economics
- 16:02 Adaptive Penalized Doubly Robust
Regression for Longitudinal Data
Yuyao Wang, Xi'an Jiaotong-Liverpool
University
- 16:18 Stable Multi-Surrogate Transformation
for Robust and Generalizable Surrogacy
Keyao Zhan, Harvard University
- 16:34 静态功能梯度视角下的自闭症谱系障碍
层级脑网络与状态转换异常研究
Yawen Yang, Hunan Normal University
- 16:50 Assessment of Surrogacy Heterogeneity
via a Logistic-Normal Mixture Model
Yupeng Wei, The Hong Kong University
of Science and Technology

2026-07-11 P.M.



Contributed Session CS05: Privacy-Preserving and Communication-Efficient Distributed Learning

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel

Chair: Xirui Liu

- 15:30 基于机器学习与联邦学习的 2 型糖尿病患者
病风险预测模型构建研究
Xiaoqin Zhang, Shanxi University of
Finance and Economics
- 15:46 Improving Projection Estimability of
OMARS Designs via Random
Perturbation
Yuxing Ye, East China Normal
University
- 16:02 FedFask: Fast Sketching Distributed
PCA for Large-Scale Federated Data
Xingcai Zhou, Nanjing Audit University
- 16:18 Communication-Efficient Estimation for
Non-Randomly Distributed and Missing
Data
Xirui Liu, Guizhou Normal University
- 16:34 Deconfounding via Profiled Transfer
Learning
Ziyuan Chen, Peking University
- 16:50 Compression-Then-Aggregation of Local
Risks for One-Shot Federated Learning
Qiong Wu, University of Pittsburgh

2026-07-11 13:30-14:40

Dean's Forum: Development of Statistics and Data Science in the AI Era

Venue: ASEAN Roundtable Forum Meeting Room

Panelists: Yang Li (Renmin University of China), Jun

Liu (Tsinghua University), Xuguang Song (Beijing

Normal University), Zhaojun Wang (Nankai

University), Yong Zhou (East China Normal

University), Hongtu Zhu (University of North
Carolina at Chapel Hill)

Chair: Song Xi Chen

2026-07-11 14:40-15:10

Professor George C. Tiao Memorial Session

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Song Xi Chen

2026-07-11 15:30-17:10

Professor Peter Hall Memorial Session

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Jiashun Jin

- 15:30 Special Guest
Tony Cai, University of Pennsylvania
- 15:45 Special Guest
Aurore Delaigle, The University of
- 16:00 Special Guest
David Donoho, Stanford University
- 16:15 Special Guest
Jianqing Fan, Princeton University
- 16:30 Special Guest
Xihong Lin, Harvard University
- 16:45 Floor Discussion

2026-07-12 08:30-09:20

Plenary Talk 4

Venue: Colourful Guizhou Ballroom

Chair: Yuantao Hao

- 08:30 Conditional Generation via Diffusion,
Flow, and Schrödinger Bridges
Jun Liu, Tsinghua University

2026-07-12 09:20-10:10

Plenary Talk 5

Venue: Colourful Guizhou Ballroom

Chair: Linglong Kong

- 09:20 Asymptotic Theory in the AI Era
Qiman Shao, Southern University of
Science and Technology

2026-07-12 10:30-11:20

Plenary Talk 6

Venue: Colourful Guizhou Ballroom

Chair: Ying Fang

- 10:30 Causal Generalist Medical AI
Hongtu Zhu, University of North
Carolina at Chapel Hill

2026-07-12 11:20-12:10

"101 Program" Textbook Release Meeting (the Ministry of Education's Pilot Program in the Fundamental Discipline of Statistics)

Venue: Colourful Guizhou Ballroom

Chair: Zhaojun Wang

2026-07-12 A.M.

2026-07-12 13:30-15:10

Invited Session IS030: Deep Generative Models, Distributional Evaluation, and Constrained LLM Training

Venue: Colourful Guizhou Ballroom 2

Organizer: Bingyi Jing

Chair: Jian Huang

- 13:30 Distributional Off-Policy Evaluation with Deep Quantile Process Regression
Qi Kuang, Jiangxi University of Finance and Economics
- 13:55 Semi-Supervised Conditional Diffusion Models
Jin Su, The Hong Kong Polytechnic University
- 14:20 Efficient and Provably Convergent End-to-End Training of Deep Neural Networks with Linear Constraints
Yancheng Yuan, The Hong Kong Polytechnic University
- 14:45 Robust Graph Representation Learning via Expectile-Based Aggregation
Wei Lan, Southwestern University of Finance and Economics

2026-07-12 13:30-15:10

Invited Session IS031: Recent Development on High-Dimensional Data Modeling

Venue: Colourful Guizhou Ballroom 1

Organizer: Runze Li

Chair: Xu Guo

- 13:30 A Statistical Framework for Alignment with Biased AI Feedback
Zhanrui Cai, The University of Hong Kong
- 13:55 Inference of High-Dimensional Weak Instrumental Variable Regression Models without Ridge-Regularization
Xu Guo, Beijing Normal University
- 14:20 Optimal Multi-Machine Learning Assisted Semi-Supervised Inference
Baihua He, University of Science and Technology of China
- 14:45 Strongly Consistent Community Detection in Popularity Adjusted Block Models
Danning Li, Northeast Normal University

Invited Session IS032: 临床研究数据监管 1

Venue: Colourful Guizhou Ballroom 3

Organizer: Yuantao Hao

Chair: Yan Hou

- 13:30 Simultaneously Leveraging Individual and Summary Level External Data in Clinical Trials
Guoyou Qin, Fudan University
- 13:55 A Pharmacokinetics-Informed Bayesian Design for Dose Optimization in Multi-Regional Clinical Trials
Fangrong Yan, China Pharmaceutical University
- 14:20 数字孪生和个体处理疗效估计
Yang Zhao, Nanjing Medical University
- 14:45 贝叶斯适应性富集在中药研究的应用
Yang Wang, National Center for Cardiovascular Diseases/Fuwai hospital

Invited Session IS033: Advances in AI-Driven Statistical Learning

Venue: Yongkang Room

Organizer: Linglong Kong

Chair: Ziqi Chen

- 13:30 Conformal Prediction Beyond the Horizon: Distribution-Free Inference for Policy Evaluation
Yukun Liu, East China Normal University
- 13:55 Bayesian Random Weight Neural Network Inference Engine
Wei Hao, University of Michigan
- 14:20 Deformed Q-learning for High-Dimensional Dynamic Treatment Regimes
Dan Wang, New York University Shanghai
- 14:45 Conditionally Whitened Generative Models for Probabilistic Time Series Forecasting
Ziqi Chen, East China Normal University

Invited Session IS034: Data Integration and Surrogate Endpoint for Causal Inference

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Peng Ding

Chair: Peng Ding

2026-07-12 P.M.



- 13:30 Estimating Long-Term Treatment Effects: a Semiparametric Proximal DiD Approach
Shu Yang, North Carolina State University
- 13:55 Evaluating Surrogates in Individual Treatment Regimes
Yue Liu, Renmin University of China
- 14:20 Long-Term Causal Inference under Persistent Confounding via Data Combination
Yuhao Wang, Tsinghua University
- 14:45 Introducing the B-Value: Combining Unbiased and Biased Estimators from a Sensitivity Analysis Perspective
Peng Ding, University of California, Berkeley

Invited Session IS035: Recent Advance of Statistics and Machine Learning

Venue: Qunsheng Room
Organizing Society: IMS China
Organizer: Dong Xia
Chair: Dong Xia

- 13:30 低秩张量优化与半参高效统计推断及其在大模型评估中的应用
Jiachun Li, Massachusetts Institute of Technology
- 13:55 Statistical and Computational Limits for Cumulant Tensor Inference: A Regime in Which Efficient Detection is Harder Than Efficient Estimation
Yuefeng Han, University of Notre Dame
- 14:20 Optimal Convergence Analysis of DDPM for General Distributions
Yuchen Zhou, University of Illinois Urbana-Champaign
- 14:45 分布式差分隐私约束下的联邦主成分分析：最优收敛率与高效算法
Jingyang Li, Fudan University

Invited Session IS036: Recent Advances in Change Point Analysis for Complex Data: High-Dimensional Time Series and Dynamic Networks

Venue: Xijiang Room
Organizer: Yao Hu
Chair: Yao Hu

- 13:30 Scale-Free Correlation Change-Point Detection in High-Dimensional Dynamic Networks
Yao Hu, Guizhou University

- 13:55 Algorithm-Agnostic Post-Clustering Differential Expression Analysis with Asymptotic FDR Control
Mengtao Wen, Nankai University
- 14:20 BASIC: Bipartite Assisted Spectral-Clustering for Identifying Communities in Large-scale Networks
Tianchen Gao, Peking University
- 14:45 Spectral Change Point Estimation for High Dimensional Time Series by Sparse Tensor Decomposition
Xinyu Zhang, East China Normal University

Invited Session IS037: Analysis of High Dimensional and Correlated Data

Venue: Zhenyuan Room
Organizer: Heping Zhang
Chair: Catherine Liu

- 13:30 Semiparametric Mixture Regression for Asynchronous Longitudinal Data Using Multivariate Functional Principal Component Analysis
Yehua Li, University of California, Riverside
- 13:55 Data Assimilation: Toward Flow Matching
Catherine Liu, The Hong Kong Polytechnic University
- 14:20 Addressing Non-Exchangeability in Hybrid Control Studies: A Variable Selection Approach
Zhiwei Zhang, Gilead Sciences
- 14:45 Statistical Tools for Integrative Proteogenomic Analysis
Pei Wang, Icahn School of Medicine at Mount Sinai, New York

Invited Session IS038: From Representation to Inference: Statistical Perspectives on Machine Learning

Venue: Baihua Meeting Room
Organizing Society: Chinese Association for Industrial Statistics Teaching
Organizer: Huazhen Lin
Chair: Huazhen Lin

- 13:30 降维与表征——统计学与人工智能融通共进下的若干发展
Zhou Yu, East China Normal University

2026-07-12 P.M.

- 13:55 Local Theory for the Adaptive Feature Program
Qian Lin, Tsinghua University
- 14:20 Some Recent Advances in AI for Statistics
Fan Zhou, Shanghai University of Finance and Economics
- 14:45 Impact of Membership Models on Subgroup Analysis
Ling Zhou, Southwestern University of Finance and Economics

Invited Session IS039: Statistical Inference on Clinical Trials and Censored Data

- Venue: Libo Room
Organizing Society: Chinese Association for Industrial Statistics Teaching
Organizer: Qizhai Li
Chair: Junjian Zhang
- 13:30 Equivalence and Non-Inferiority Assessment in Clinical Trials by Win Probability
Shifang Qiu, Chongqing University of Technology
- 13:55 Testing Patterned Covariance Matrices Under Quadratic Subspace
Yuli Liang, Guangxi Normal University
- 14:20 Quantile Regression for Censored Data with A Cure Fraction
Bo Han, Yunnan University
- 14:45 Semi-Parametric Estimation for Sample Selection Models
Junjian Zhang, Guangxi Normal University

Invited Session IS040: Recent Developments in Statistical Methods and Learning

- Venue: Songbai Mountains Multifunctional Meeting Room
Organizer: Jiashun Jin
Chair: Jiashun Jin
- 13:30 Interpretable Statistical Learning for Spatial Omics and Tissue Architecture Analysis
Yuelei Zhang, Southeast University
- 13:55 Extremal Eigenvectors of Sparse Random Matrices
Chen Wang, City University of Hong Kong

- 14:20 Design and Analysis of Two-Phase Medical Studies Using Model-Assisted Calibration Approaches
Lingxiao Wang, University of Virginia
- 14:45 Non-Splitting Neyman-Pearson Classifiers
Jingming Wang, University of Virginia

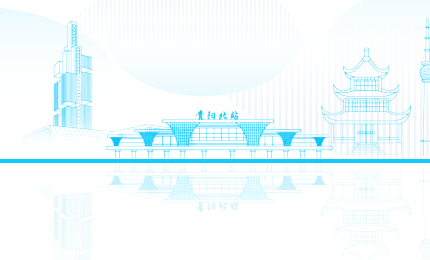
Invited Session IS041: New Advances in Adaptive Randomization

- Venue: Hongfeng Meeting Room
Organizer: Feifang Hu
Chair: Feifang Hu
- 13:30 Dynamic Influencer Identification in CARA Experiments under Bipartite Network Interference
Likun Zhang, Renmin University of China
- 13:55 Assumption-Lean Covariate Adjustment in Covariate Adaptive Randomization
Lin Liu, Shanghai Jiao Tong University
- 14:20 Some Recent Advances in Adaptive Design
Wei Ma, Renmin University of China
- 14:45 Estimating Treatment and Spillover Effects with Ego-Cluster Experimental Design
Xiao Liu, Renmin University of China

Invited Session IS042: Statistical Methods in Generative AI and Network Models

- Venue: Doupeng Mountains Meeting Room
Organizer: Yang Ning
Chair: Yang Ning
- 13:30 SADA: Safe and Adaptive Aggregation of Multiple Black-Box Predictions
Jiwei Zhao, University of Wisconsin-Madison
- 13:55 An Interactive Learning Paradigm in the Age of Generative AI
Yuchen Wu, Cornell University
- 14:20 Timely Decision Making with Balanced Benefit-Risk Tradeoffs
Yingqi Zhao, Fred Hutchinson Cancer Center
- 14:45 Backdoor Reactivation with Clean Data
Yao Li, University of North Carolina at Chapel Hill

2026-07-12 P.M.



Invited Session IS043: Modern Inference for Complex and Large-Scale Data

Venue: Fanjing Mountains Meeting Room

Organizer: Yiyuan She

Chair: Yiyuan She

- 13:30 When Does Synthetic Data Help Imbalanced Learning?
Anru Zhang, Duke University
- 13:55 Signal-to-Noise Ratio Aware Minimax Analysis of Sparse Linear Regression
Haolei Weng, Southern University of Science and Technology
- 14:20 Belief in Dependence
Kai Zhang, University of North Carolina at Chapel Hill
- 14:45 Slacked Empirical Likelihoods for Post-Criterion Inference
Yiyuan She, Westlake University

Contributed Session CS06: Bayesian and Machine Learning Methods for Multi-Omics and Neuroimaging

Venue: Qingyan Boardroom

Chair: Yaqin Zhang

- 13:30 Accounting for Network Noise in Graph-Guided Bayesian Modeling of High-Dimensional Omics Data
Wenrui Li, University of Connecticut
- 13:46 Forecasting of COVID-19 Incident Cases in Beijing Municipality Based on Hierarchical Forecasting Model
Wanqi Lin, Central University of Finance and Economics
- 14:02 Sparse Multivariate Distribution-to-Distribution Regression via Dependent Mixtures -- A Bayesian Semiparametric Approach
Jintao Wen, Xiamen University
- 14:18 Cross-Modal Brain Network Disruptions in Schizophrenia: Insights From Multiplex Modeling and Transcriptomic Associations
Hanrui Chen, Hunan Normal University
- 14:34 From Multi-Omics to Brain and Behavior: Statistical Integration of Exome Sequencing, Plasma Proteomics, and Neuroimaging in Mental Health Research
Jujiao Kang, Hunan Normal University

14:50 解析心脏结构与多维度大脑表型之间的共享遗传架构

Yaqin Zhang, Hunan Normal University

Contributed Session CS07: Advances in Machine Learning for Large Language Models and Matrix Methods

Venue: Huangguoshu Theater Meeting Room

Chair: Jingwen Zhang

- 13:30 Prompt Perturbation for Reliable LLM Evaluation over Comparison Graphs
Dong Huang, Tsinghua University
- 13:46 非线性矩阵补全在一般损失与采样分布下的最优性理论
Yuanhong A, Renmin University of China
- 14:02 PAC-Efficient Reasoning for Large Language Models: Marginal Guarantees, Conditional Extensions, and Anytime Validity
Hao Zeng, Southern University of Science and Technology
- 14:18 Robust Online Recommender System via Matrix Completion
Guanyi Yue, Shanghai Jiao Tong University
- 14:34 分析师前瞻性对控股股东股权质押的影响——来自大语言模型的证据
Ke Yao, Zhongnan University of Economics and Law
- 14:50 A Compass for Useful Data: Online Data Selection via Alignment-Gated Fisher Geometry
Jingwen Zhang, EAST China normal university

Contributed Session CS08: Advances in Network and Privacy-Preserving Data Science

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Na Kang

- 13:30 Joint Estimation of Edge Probabilities for Multi-Layer Networks via Neighborhood Smoothing
Diqing Li, Zhejiang Gongshang University
- 13:46 基于网络信息的近似因子模型估计
Yuzhou Zhao, Renmin University of China

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- 14:02 数据要素促进居民家庭服务消费的理论机制研究——基于 CHFS 的经验证据
Tianle Li, Henan University of Economics and Law
- 14:18 Differentially Private Adaptive Neyman Allocation for Sequential Experiments
Yaqi Zhou, Tsinghua University
- 14:34 Addressing Complex Missingness: A Bayesian Joint Analysis of Missing Item Response and Covariate Data under a Missing Not at Random Mechanism
Jialing Tan, Northeast Normal University
- 14:50 基本公共服务均衡布局能否增强城市创新网络韧性
Na Kang, Zhejiang Gongshang University

Contributed Session CS09: Variable Selection and FDR Control and Clinical Trials and Drug Development

Venue: Executive Meeting Room, 12th Floor, Qunsheng Howard Johnson

Chair: Wentao Yang

- 13:30 伴有复发事件响应及不等随访时间的响应适应性随机化试验的样本量确定
Junjiang Zhong, Xiamen University of Technology
- 13:46 基于高斯图模型的自适应多源先验融合正则化方法
Weijuan Liang, Xiamen University
- 14:02 The Randomized BH Procedure: A Framework Unifying Conformal and Competition Tests
Mingzhou Deng, Chinese Academy of Sciences
- 14:18 A Greedy-Enhanced ABC-NS Framework for Epidemic Model Selection
Jinlian Huang, Zhongnan University of Economics and Law
- 14:34 Learning Overlapping Group Structures via Community Detection for High-Dimensional Variable Selection
Qianhui Shen, Central University of Finance and Economics
- 14:50 A Bayesian Phase I/II Platform Design with Data Augmentation Accounting for Delayed Outcomes
Wentao Yang, Shanghai Jiao Tong University

Contributed Session CS10: Advances in Bayesian Methods and State-Space Models

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel

Chair: Changqing Lu

- 13:30 A General Weighted Block Ensemble Kalman Filter with Data-Driven Optimal Block-Width Selection
Lei Qian, Peking University
- 13:46 Data Integration of Non-Probability and Probability Samples Using Deep Generative Model
Tongxin Wang, Shanxi University of Finance and Economics
- 14:02 Predicting Average Daily Liveweight Gain in Grazing Cattle from Accelerometer-Derived Behaviour and Activity
Shuwen Hu, Royal Melbourne Institute of Technology, RMIT
- 14:18 Equilibrium Joining Strategies in a Two-Stage Service System with Priority Customers and Feedback
Jia Xu, Chaohu University
- 14:34 Modified Cholesky Decomposition-Based Localization in Ensemble Kalman Filter
HaoXuan Sun, Harbin Institute of Technology
- 14:50 Bayesian Inference for Independent Cluster Point Processes
Changqing Lu, Central South University

2026-07-12 15:30-17:10

Invited Session IS044: Statistics x AI

Venue: Colourful Guizhou Ballroom 2

Organizer: Bingyi Jing

Chair: Xin He

- 15:30 Deep Sparse Masks via Optimal Transport
Yixuan Qiu, Shanghai University of Finance and Economics
- 15:55 Kernel Ridge Regression with Predicted Feature Inputs and Applications to Factor-Based Nonparametric Regression
Xin He, Shanghai University of Finance and Economics

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16:20 Selective Labeling with False Discovery Rate Control

Hongxin Wei, Southern University of Science and Technology

16:45 Conditional Distribution Test via Flow Models

Yuan Gao, Nankai University

Invited Session IS045: High-Dimensional Statistics and Random Matrices

Venue: Colourful Guizhou Ballroom 1

Organizer: Jianfeng Yao

Chair: Jianfeng Yao

15:30 High-Dimensional Precision Matrix Quadratic Forms: Estimation Framework for $p > n$

Weiming Li, Shanghai University of Finance and Economics

15:55 Mean-Shift PCA by Knockoff Mean
Zeng Li, Southern University of Science and Technology

16:20 Mesoscopic Dynamics in Complex Networks: A Random Matrix Perspective
Zhenggang Wang, Southeast University

16:45 Orthogonalized Kernel Debiased Machine Learning for Logistic Multimodal Inference
Yaohua Rong, Beijing University of Technology

Invited Session IS046: Advances in Statistical Methods for Complex Biomedical Data

Venue: Colourful Guizhou Ballroom 3

Organizer: Pei Wang

Chair: Pei Wang

15:30 A Joint Fairness Model with Applications to Risk Predictions for Underrepresented Populations
Hua (Judy) Zhong, Weill Cornell Medicine

15:55 Contextual Evaluation of MicroRNA Sequencing Data Harmonization in Machine Learning Tasks
Lixuan Qin, Memorial Sloan Kettering Cancer Center

16:20 Learning Directed Acyclic Graph Models with Applications on High Throughput Omics Data
Jie Peng, University of California, Davis

16:45 CausalGRN: Deciphering Causal Gene Regulatory Networks from Single-Cell CRISPR Screens

Wei Sun, Fred Hutchinson Cancer Center

Invited Session IS047: Recent Advances in Network Analysis and Related Areas

Venue: Yongkang Room

Organizer: Jingming Wang

Chair: Jingming Wang

15:30 Adaptive Transfer Clustering: A Unified Framework

Zhongyuan Lv, University of Sydney

15:55 Directed Hypergraph: Tensor Representation, Embedding Modeling, and Community Detection

Mingyang Ren, Shanghai Jiao Tong University

16:20 Estimation and Statistical Inference for Generalized Multilayer Latent Space Model

Haoran Zhang, Southern University of Science and Technology

16:45 A Manifold Learning Method for Noisy Independent Component Analysis
Chunming Zhang, University of Wisconsin-Madison

Invited Session IS048: Design-Based Causal Inference

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Peng Ding

Chair: Peng Ding

15:30 Randomization Inference with Sample Attrition

Xinran Li, University of Chicago

15:55 Design-Based Prediction-Powered Inference for Edge-Level Outcomes in Directed Networks

Hanzhong Liu, Tsinghua University

16:20 Principled Analysis of Crossover Designs: Causal Effects, Efficient Estimation, and Robust Inference

Zhichao Jiang, Sun Yat-sen University

16:45 Model-Assisted Randomization Tests Without Sample Splitting
Yao Zhang, National University of Singapore

2026-07-12 P.M.

Invited Session IS049: Recent Advance of Network Data Analysis and Beyond

Venue: Qunsheng Room

Organizing Society: IMS China

Organizer: Dong Xia

Chair: Yuang Tian

15:30 High-Resolution Feature Identification in High-Dimensional Clustering

Lyuou Zhang, Shanghai University of Finance and Economics

15:55 Regression Analysis of Reciprocity in Directed Networks

Chenlei Leng, The Hong Kong Polytechnic University

16:20 Linear Regression with Probabilistic Networks for Network-Linked Data

Jingnan Zhang, University of Science and Technology of China

16:45 Bridging Theory and Practice: Statistical Inference for Latent Space Models of Networks

Yuang Tian, The Hong Kong University of Science and Technology

Contributed Session CS11: High-Dimensional Inference and Variable Selection and FDR Control

Venue: Xijiang Room

Chair: Nayang Shan

15:30 A Cross-Layer Independent Cascade Model for Signaling Pathway Discovery: Uncovering the Dual Role of Ephx2 in Atherosclerosis

Caiyuzhen Zhang, Xiangtan University

15:46 High-Dimensional Distributional Change-Point Inference via Sparse Rank-Score Statistics

Xuesong Fu, Guizhou University

16:02 利用汇总统计量进行因果效应异质性估计

Yadong Yang, East China Normal University

16:18 Pathway-Guided Conditional Ultrahigh-Dimensional Feature Screening with Nested Group Structures for Survival Analysis

Leen Huang, Peking University

16:34 Population-Unbiased Calibration for High-Dimensional Logistic Regression with Measurement Error

Mingrui Zhong, Zhejiang University of Finance and Economics

16:50 Q-DREAM: Double Robust Estimation and Aggregation for High-Dimensional Quantile Mediation Analysis

Nayang Shan, Capital University of Economics and Business

Invited Session IS050: Advancements in Statistical Learning for Precision Medicine

Venue: Zhenyuan Room

Organizer: Heping Zhang

Chair: Jiarui Zhang

15:30 Stein-Encoder: A White-Box Supervised Encoder via Stein Identities

Xin Zhou Guo, The Hong Kong University of Science and Technology

15:55 Enhancing Inference for Small Cohorts via Transfer Learning

Yi Li, University of Michigan

16:20 Active Subsampling for Measurement-Constrained M-Estimation of Individualized Thresholds with High-Dimensional Data

Yang Ning, Cornell University

16:45 Automatic Hybrid Neural ODE Reduction

Lu Tian, Stanford University

Invited Session IS051: Modern Statistical Inference and Machine Learning for Complex Data

Venue: Libo Room

Organizing Society: Chinese Association for Applied Statistics

Organizer: Changliang Zou

Chair: Dongxiao Han

15:30 Prediction-Powered Linear Regression: A Balance Between Interpretation and Prediction

Xingyu Yan, Jiangsu Normal University

15:55 Distributed Privacy-Preserving Group Inference for High-Dimensional GLMs

Dongxiao Han, Nankai University

16:20 Orthogonalized Score Tests for Conditional Variable Significance in Deep Partial Linear Cox Models

Meiling Hao, University of International Business and Economics

16:45 Maximum Likelihood Estimation in the Sparse Rasch Model

Lianqiang Qu, Central China Normal University

Contributed Session CS12: Advances in Economic and Environmental Data Science

Venue: Baihua Meeting Room

Chair: Xiaohui Liu

- 15:30 Research and Application of Sales Forecasting Based on Debiased Spatiotemporal Neural Networks
Yumo Zhou, Central University of Finance and Economics
- 15:46 Transformer-Based Structural OHLC Price Forecasting for Chinese Agricultural Futures with Multi-Source Heterogeneous Data
Wenyang Huang, China Agricultural University
- 16:02 基于 CNN-BiLSTM-MSHA 模型融合投资者情绪的股价预测
Yu Han, Inner Mongolia University of Finance and Economics
- 16:18 低空经济对区域高质量发展的影响
Yunhuan Qu, Shanxi University of Finance and Economics
- 16:34 Deep Isometric Manifold Embedding for Statistical Analysis of Financial Video Broadcasts
Guoquan Dou, Peking University
- 16:50 经济系统数字孪生：从宏观经济治理视角
Xiaohui Liu, Jiangxi University of Finance and Economics

Invited Session IS052: Statistics with Deep Learning

Venue: Hongfeng Meeting Room

Organizer: Xinbing Kong

Chair: Yixuan Zhang

- 15:30 Enhancing Fairness and Efficiency in Image Classification via Weighted SVD-Based Fine-Tuning of Large Pre-trained Models
Caixing Wang, Southeast University
- 15:55 A Conditional Distribution Equality Testing Framework Using Deep Generative Learning
Siming Zheng, Southeast University
- 16:20 Generating Tensor Factor Structure with Diffusion Model via Tucker U-net
Tian Chen, Southeast University
- 16:45 Extending VAEs to Discrete Latent Spaces
Yixuan Zhang, Southeast University

Invited Session IS053: Free Probability and Random Matrix

Venue: Doupeng Mountains Meeting Room

Organizing Society: IMS China

Organizer: Lian Wu

Chair: Qiang Zeng

- 15:30 Matrix Harmonic Analysis at High Temperature
Jiyuan Zhang, South China University of Technology
- 15:55 平面正交多项式和二维库伦气体模型
Men Yang, Central South University
- 16:20 Absolute Continuity of Operator-Valued Random Variables
Sheng Yin, Harbin Institute of Technology
- 16:45 Operator Norm Bounds for Multi-Leg Matrix Tensors and Applications to Random Matrix Theory
Wangjun Yuan, Southern University of Science and Technology

Invited Session IS054: Recent Advances in Real-World Data Integration

Venue: Songbai Mountains Multifunctional Meeting Room

Organizer: Yumou Qiu

Chair: Peng Liu

- 15:30 MOSAiC: A Unified Framework for Lossless, One-Shot, Federated Learning Algorithms
Yong Chen, University of Pennsylvania
- 15:55 U-aggregation: Unsupervised Aggregation of Multiple Learning Algorithms
Rui Duan, Harvard University
- 16:20 Bregman Information Projection for Calibration Estimation
Yumou Qiu, Peking University
- 16:45 Nonlinear Independent Component Analysis for Time Series via Invertible Neural Networks
Han Yan, London School of Economics and Political Science

Invited Session IS055: Institute of Statistics and Big Data

Venue: Fanjing Mountains Meeting Room

Organizer: Liping Zhu

Chair: Liping Zhu

2026-07-12 P.M.

- 15:30 Generative Modeling for the Bootstrap
Fang Han, University of Washington, Seattle
- 15:55 Large Precision Matrix Estimation with Unknown Group Structure
Yuan Ke, University of Georgia
- 16:20 Sequential Multiple Testing with Multiple Hypotheses and Prior Information on the Hypothesis Configuration
Yiming Xing, Tongji University
- 16:45 Multivariate Conformal Selection
Yi Yang, McGill University

Contributed Session CS13: Advances in Causal Inference and Machine Learning for Complex Data

Venue: Qingyan Boardroom

Chair: Yuqian Zhang

- 15:30 Design and Analysis for Valid Causal Inference with Network-Dependent Data
Zhejia Dong, Brown University
- 15:46 Efficient Inference of Regional Treatment Effects in Multi-Regional Clinical Trials
Kunhai Qing, East China Normal University
- 16:02 Quadruply Robust Methods for Causal Mediation Analysis
Zhen Qi, Renmin University of China
- 16:18 Stabilized Debiased Machine Learning
Rucong Yao, Ghent University, Belgium
- 16:34 Sparse Deep Integrative Latent Factor Regression for Supervised Multi-Modal Data Analysis
Jing Yu, Shanghai University of Finance and Economics
- 16:50 Balancing Utility and Cost in Dynamic Treatment Regimes
Yuqian Zhang, Renmin University of China

Contributed Session CS14: Advances in High-Dimensional Feature Selection and Optimization

Venue: Huangguoshu Theater Meeting Room

Chair: Xiaofei Wu

- 15:30 High-Dimensional Center-Augmented Regularization for Simultaneous Subgroup Learning and Variable Selection
Hanbo Yang, Columbia University

- 15:46 Feature Selection with Annealing for Shallow Neural Networks Using the Multi-Stage Stochastic Algorithm
Lizhe Sun, Shanxi University of Finance and Economics
- 16:02 REVS: A Reinforced Exploration Algorithm for Variable Selection via Thompson Sampling with UCB-Augmented Variance
Xi Lin, Fuzhou University
- 16:18 An Improved Sufficient Condition for Weighted LR-L1 Minimization
Jianwen Huang, Chongqing Normal University
- 16:34 Byzantine-Resilient Decentralized Optimization for Joint Feature Selection in Multi-Task Networks
Dazhong Wang, Shanghai Jiao Tong University
- 16:50 Feature Splitting Parallel Algorithm for Dantzig Selectors
Xiaofei Wu, Yunnan University

Contributed Session CS15: Advances in Time Series and Causal Machine Learning

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Junni Zhang

- 15:30 Z-Valued Smooth Transition GARCH Models: Specification and Testing
Fukang Zhu, Jilin University
- 15:46 A Unified Statistical Framework for Testing Stochastic Dominance
Weiqi Yang, University of Science and Technology of China
- 16:02 Testing and Estimation of Change Point in ARMA Model with Heavy-Tailed G-GARCH Noises
Qiang Bai, Shanxi University of Finance and Economics
- 16:18 Impact Mechanism of Digital Economy Policies on the Synergistic Effects of Pollution-Carbon Reduction in Cities: A Causal Inference Approach Based on Double Machine Learning
Yuhuan Sun, Dongbei University of Finance and Economics
- 16:34 Generalized Spectral Testing with Sample Splitting
Yuxin Tao, Southern University of Science and Technology

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16:50 Stable Causal Targeting with Machine Learning: Application to a Consumer Finance Field Experiment
Junni Zhang, Peking University

Contributed Session CS16: Time Series and Longitudinal Data and Bayesian Methods

Venue: Executive Meeting Room, 12th Floor,
Qunsheng Howard Johnson
Chair: Yiping Hong

15:30 On Ignorability of Preferential Sampling in Geostatistics
Ganggang Xu, University of Miami

15:46 Spherically Embedded Time Series with Unknown Trend and Periodic Components
Jiazhen Xu, Macquarie University

16:02 The Empirical Bayes Estimators of the Variance Parameter of the Normal Distribution with a Normal-Inverse-Gamma Prior Under Stein's Loss Function
Yingying Zhang, Yunnan University

16:18 二元 Marshall-Olkin 瑞利分布的参数估计
Xiang Xiao, Shanghai University of Engineering Science

16:34 Statistical Inference for Coefficients and Trend Function in Time-Varying GARCH Model
Ziyi Zou, Fuzhou University

16:50 Fisher Scoring for Exact Matérn Covariance Estimation through Stable Smoothness Optimization
Yiping Hong, Beijing Institute of Technology

Contributed Session CS17: Advances in Statistical Inference and Machine Learning

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel

Chair: Yuanhong Chen

15:30 Aggregating Conformal Prediction Sets via α -Allocation
Yue Yu, Nankai University

15:46 Beyond Two Arms: Power-Optimized Adaptive Experiments
Cheng Yu, University of Chicago

16:02 Online Generalized Boundary False Discovery Rate Control under Arbitrary Dependence via Closure Principle
Yifan Zhang, Shanghai Jiao Tong University

16:18 Graphical Regression with Shrinkage and Covariance Kernel
Xueqian Kang, Xiamen University

16:34 A Time-dependent Transformer Framework for Survival Prediction with Longitudinal Data
Yaoling Xie, Guizhou University

16:50 Tensor Decomposition-Based Neural Operator with Dynamic Mode Decomposition for Parameterized Time-Dependent Problems
Yuanhong Chen, Qingdao University of Science and Technology

2026-07-13 08:30-10:10

Invited Session IS056: Recent Developments in High-Dimensional Learning

Venue: Colourful Guizhou Ballroom 2

Organizer: Hui Zou

Chair: Yumou Qiu

08:30 Fast Fitting of Gaussian Mixture Model via Dimension Reduction
Wei Luo, Zhejiang University

08:55 Inference in Dense High-Dimensional Heteroscedastic Regression
Jing Zhou, University of Manchester

09:20 A New Approach to L0-Compressed Sensing with Finite-Step Oracle Convergence under the Sharp RIP Condition
Jun Fan, Hebei University of Technology

09:45 Sparse Gaussianized Canonical Correlation Analysis with Applications to Portfolio Analysis
Di He, Nanjing University

Invited Session IS057: 统计学历史与文化

Venue: Colourful Guizhou Ballroom 1

Organizer: Wei Yuan

Chair: Leping Liu

08:30 洞见数据文明——中国统计学数字博物馆构想
Yingchun Zhou, East China Normal University

08:55 薪火相传 笃行致远——上海财经大学统计学科史编撰成果
Xingdong Feng, Shanghai University of Finance and Economics

2026-07-13 A.M.

09:20 数据生产要素价值测度：数据科学的时代
命题与统计学历史回响

Mengxin Wang, Guangzhou University

09:45 多模态数据分析的统计学之道：从方法拓
荒到范式革新

Yaohua Rong, Beijing University of
Technology

Invited Session IS058: Advances in Functional, Distributional, and Structured Statistical Learning

Venue: Colourful Guizhou Ballroom 3

Organizing Society: Korean Statistical Society

Organizer: Cheolwoo Park, Sungkyu Jung

Chair: Jeong Min Jeon

08:30 Hilbert Diffusion Models for Generating
Functional Data with Galerkin-Type
Kernel Neural Operators

Hyonho Chun, KAIST

08:55 Deep Symbolic Learning for Histogram-
Valued Regression Data

Iluk Kang, Chungbuk National
University

09:20 From Binary Pairs to Soft
Correspondences in Audio Text
Retrieval

Changwon Lim, Chung-Ang University

09:45 Information Matrix Test for Normality of
Innovations in Stationary Time Series
Models

Zixuan Liu, Henan University of
Economics and Law

Invited Session IS059: Learning-Based Reliability and Cyber Risk Assessment

Venue: Yongkang Room

Organizer: Peng Zhao

Chair: Maochao Xu

08:30 Estimating All-Terminal Signature for
Networks by Using Deep Neural
Learning

Gaofeng Da, Nanjing University of
Aeronautics and Astronautics

08:55 Modeling Multivariate Degradation with
Time-Varying Mean-Variance
Dynamics for Reliability Assessment

Ancha Xu, Zhejiang Gongshang
University

09:20 RUL Prediction for Aircraft Engines by
Integrating Nonlinear Functional Data
Analysis and Graph Attention Network

Weiyong Ding, Jiangsu Normal
University

09:45 CADA-Flow: Capturing Complex
Dependence in Cyber Breach Risk via
Deep Learning

Yijia Li, University of Science and
Technology of China

Invited Session IS060: Recent Advance of Statistical Theories in Management and Economics

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Jinyuan Chang

Chair: Jinyuan Chang

08:30 Fair Regression in Reproducing Kernel
Hilbert Spaces: Single-Machine and
Decentralized Implementations under
Conditional Mean Parity

Xiaojun Mao, Shanghai Jiao Tong
University

08:55 Data-Driven Policy Learning for
Continuous Treatments

Haitian Xie, Peking University

09:20 Statistical Inference for Mediation
Models with High Dimensional
Exposures

Wei Zhou, Southwestern University of
Finance and Economics

09:45 Multi-Source Prediction Powered
Inference

Wenhui Li, Chinese Academy of
Sciences

Invited Session IS061: Theoretical Econometrics

Venue: Qunsheng Room

Organizing Society: IMS China

Organizer: Fang Han

Chair: Fang Han

08:30 The Optimal Selection of a Subset and
the Roles of Testing

Lilun Du, City University of Hong Kong

08:55 Second-Order Sparse Sufficient
Dimension Reduction with Applications
to Quadratic Discriminant Analysis

Jing Zeng, University of Science and
Technology of China



09:20 Score Test for Order of Finite Normal Mixtures
Junfan Tao, Kyoto University

Invited Session IS062: Dynamic Game and Particle Approximation

Venue: Xijiang Room

Organizing Society: IMS China

Organizer: Lijun Bo

Chair: Panpan Ren

08:30 Two-Time-Scale McKean-Vlasov Systems

Fuke Wu, Huazhong University of Science and Technology

08:55 Mean Field Control with Poissonian Common Noise: A Pathwise Compactification Approach
Xiaoli Wei, Harbin Institute of Technology

09:20 Controlled Particle Systems and Their Applications in Deep Learning
Huafu Liao, Dalian University of Technology

09:45 Bi-Coupling Approach and its Applications
Panpan Ren, City University of Hong Kong

Invited Session IS063: Novel Data Analytics in Business and Economics

Venue: Zhenyuan Room

Organizing Society: Commerce Statistics Society of China

Organizer: Yang Li

Chair: Rong Li

08:30 Beyond Average Accuracy: Region-Adaptive Forecast Combination for Risk-Sensitive Operational Decisions

Yanfei Kang, Beihang University

08:55 Bootstrap-Based Testing for Mode Models in Feature Selection
Rong Li, Renmin University of China

09:20 A Heterogeneous Multiple-Inflated Model with Automated Selection for Count Data
Mengyun Wu, Shanghai University of Finance and Economics

09:45 Generative Doubly Robust Estimation for General Treatment Effects
Qixian Zhong, Xiamen University

Invited Session IS064: Statistical Methods in Causal Inference and Policy Optimization

Venue: Libo Room

Organizing Society: Chinese Association for Applied Statistics

Organizer: Liuquan Sun

Chair: Liuquan Sun

08:30 Deconfounding Sequential Treatment Effects through Overlapping Treatment Histories

Hui Huang, Renmin University of China

08:55 Optimal Treatment Allocations Accounting for Population Differences
Wei Zhang, Chinese Academy of Sciences

09:20 A Nonparametric Potential Outcomes Framework for Bidirectional Causal Inference

Guoyu Zhang, Peking University

09:45 General Sieve Learning-Based Specification Analysis with Missing Survey Data

Puying Zhao, Yunnan University

Invited Session IS065: Large-Scale Inference and Selective Inference

Venue: Baihua Meeting Room

Organizing Society: Chinese Society for Probability and Statistics

Organizer: Wenguang Sun, Sheng Yu

Chair: Zinan Zhao

08:30 Multiple Testing Meets Data Visualization: A Modern Perspective on Boxplots and Bagplots

Bowen Gang, Fudan University

08:55 Active Hypothesis Testing under Computational Budgets

Yin Xia, Fudan University

09:20 Nonparametric Statistical Inference for Permutation-Based Models: Optimality and Adaptivity

Dongdong Xiang, East China Normal University

09:45 Shape-Adaptive Conditional Calibration for Conformal Prediction via Minimax Optimization

Yajie Bao, Nankai University

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Invited Session IS066: Statistical Learning for High-Dimensional Inference and Specific Applications

Venue: Hongfeng Meeting Room

Organizer: Wenliang Pan

Chair: Wenliang Pan

- 08:30 Differentially Private Sliced Inverse Regression in the Federated Paradigm
Xin Chen, Southern University of Science and Technology
- 08:55 Neural Wasserstein Two-Sample Tests
Zhenhua Lin, National University of Singapore
- 09:20 A General Framework of Brain Region Detection and Genetic Variants Selection in Imaging Genetics
Long Feng, The University of Hong Kong
- 09:45 Orthogonal Covariate Balancing for Causal Inference
Ying Yan, Sun Yat-sen University

Invited Session IS067: High-Dimensional Inference and Learning under Complex Data Settings

Venue: Doupeng Mountains Meeting Room

Organizer: Xuejun Jiang

Chair: Xuejun Jiang

- 08:30 Cross-Semantic Transfer Learning for High-Dimensional Linear Regression
Xuejun Jiang, Southern University of Science and Technology
- 08:55 Testing High-Dimensional Parameters in Quantile Regression with High-Dimensional Control Factor
Xu Liu, Shanghai University of Finance and Economics
- 09:20 To Explore or to Commit: Conservative Optimism with Pessimistic Baselines for Offline-to-Online Learning
Fang Kong, Southern University of Science and Technology
- 09:45 Fine-Tuning LLM Agents without Fine-Tuning LLMs
Linyi Yang, Southern University of Science and Technology

Invited Session IS068: Applications of Omics Technology to Uncover Human Disease Pathogenesis

Venue: Songbai Mountains Multifunctional Meeting Room

Organizing Society: Biostatistics Branch of Chinese Preventive Medicine Association

Organizer: Chaolong Wang

Chair: Shiquan Sun, Xiaoyong Sai

- 08:30 人群组学数据的计算建模与复杂疾病易感机制解析
Lei Li, Shenzhen Bay Laboratory
- 08:55 时空蛋白质组构建虚拟细胞
Xue Cai, Westlake University
- 09:20 脑衰老细胞图谱构建的统计挑战
Shiquan Sun, Xi'an Jiaotong University
- 09:45 中国人群 DNA 甲基化遗传调控图谱的构建与应用
Yi Jiang, Huazhong University of Science and Technology

Invited Session IS069: Recent Advances in Biomedical Data Science

Venue: Fanjing Mountains Meeting Room

Organizer: Hongyu Zhao

Chair: Tao Wang

- 08:30 Deciphering Microbial Community Dynamics Using Cross-Sectional Data-Informed NeuralODE
Tao Wang, Shanghai Jiao Tong University
- 08:55 Integrative Analysis and Regulatory Inference in Spatial Multi-Omics Data via Graph Representation Learning
Zhixiang Lin, The Chinese University of Hong Kong
- 09:20 An Efficient Two-Dimensional Functional Mixed-Effect Model Framework for Wearable Device Data Analysis in Large Population Studies
Xinyue Li, City University of Hong Kong
- 09:45 False Discovery Rate Control via Data Splitting for Testing-After-Clustering
Lijun Wang, Zhejiang University

Contributed Session CS18: Advances in Causal Inference for Biomedical and Social Sciences

Venue: Qingyan Boardroom

Chair: Haoxiang Wang

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- 08:30 A Novel Secondary-Outcome Approach to Estimating Primary Causal Effects with Unmeasured Confounders
Desu Kong, East China Normal University
- 08:46 When Screening Misleads: A Robust Mendelian Randomization Test for Reliable Causal Discovery
Bo Chen, Nankai University
- 09:02 Partially Functional Dynamic Backdoor Diffusion-Based Causal Model
Xinwen Liu, Yunnan University (Southwest United Graduate School)
- 09:18 Causal Bayesian Network Learning: Application to the Causal Analysis of Masticatory Function and Coronary Heart Disease in Older Adults
Chunzi Wang, Shanghai Normal University Tianhua College
- 09:34 Clike: Colocalization by LD-Informed Cosine Kernel Embedding
Wenxin Jiang, City University of Hong Kong
- 09:50 Tight Causal Bounds on Rare Outcomes under Multiple Biases in Test-Negative Design
Haoxiang Wang, Peking University

Contributed Session CS19: Advances in Deep Learning for Interdisciplinary Data

Venue: Huangguoshu Theater Meeting Room
Chair: Feng Chen

- 08:30 Deep Learning Based Cross-Patient EEG Seizure Analysis Algorithms
Zongpeng Zhang, Peking University
- 08:46 Semiparametric Estimation and Inference for Partially Linear Transformation Models via Deep Neural Networks with Interval-Censored Survival Data
Junkai Yin, Shanghai Jiao Tong University
- 09:02 Expected Shortfall Regression with Deep Neural Networks under Dependence
Peiyao Cai, University of Michigan, Ann Arbor
- 09:18 多层图正则化感知的半监督学习
Haiyun Xu, Chaohu University

- 09:34 Real-Time GDP Nowcasting with Mixed-Frequency Dynamic Factor Models and Deep Learning: Evidence from China
Gaoang Chen, Shanghai University of International Business and Economics
- 09:50 Neural Networks for Parameter Estimation of the Discretely Observed Hawkes Process
Feng Chen, UNSW Sydney

Contributed Session CS20: Advances in Environmental and Financial Econometrics

Venue: ASEAN Roundtable Forum Meeting Room
Chair: Ruiyun Zhang

- 08:30 人工智能背景下平台经济对非正规就业的影响研究
Xiaoyan Liu, Shanxi University of Finance and Economics
- 08:46 Process-Augmented State Space Completion for High-Frequency Volatility with Informative Discrepancy Errors
Xu Liu, Shandong University of Finance and Economics
- 09:02 基于 AR-SV Copula 分位数回归的上海黄金对人民币汇率市场的溢出效应测度研究
Hui Shen, Northwest A&F University
- 09:18 基于 GML 指数的新疆兵团种植业低碳生产效率及发展差异研究
Dan Wang, Xinjiang University of Political Science and Law
- 09:34 中国经济安全的水平测度、时空演化与监测预警
Zhe Liu, Zhongnan University of Economics and Law
- 09:50 Kernel Conditional Moment Tests with Estimated Parameters
Ruiyun Zhang, Beijing University of Technology

Contributed Session CS21: Network and Graphical Models and Tensor and Matrix Methods

Venue: Executive Meeting Room, 12th Floor, Qunsheng Howard Johnson
Chair: Xuefei Wang

- 08:30 Revisiting Madigan and Mosurski: Collapsibility via Minimal Separators
Pei Heng, Northeast Normal University

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- 08:46 Modeling and Inference for High-Dimensional Mediation Analysis with Endogeneity
Xinyu Zhang, Xiamen University
- 09:02 Clustering Analysis on Multi-layer Networks with Group Structure and Sparsity Heterogeneity
Xuefei Wang, Southeast University
- 09:18 High-Dimensional Heterogeneous Factor-Augmented Generalized Linear Regression Models for Multi-View Data
Tianmei Niu, Shanghai Jiao Tong University
- 09:34 Transfer Learning in High-Dimensional Group Factor Models
Yunjing Sun, Shandong University
- 09:50 Estimating the Number of Significant Components in High-Dimensional Principal Component Analysis
Zhixiang Zhang, University of Macau

Contributed Session CS22: Statistical Learning for Financial and Energy Data

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel

Chair: Jiakun Guo

- 08:30 Covariate-Augmented Tensor Factor Models
Lingxiao Li, The Hong Kong Polytechnic University
- 08:46 Quantile Regression and Fuzzy-Probabilistic Inference in Financial Decision-Making
Tomas Tichy, VSB-Technical University of Ostrava
- 09:02 Graph Neural Network Driven Volatility Indices Forecasting Integrating Multi-Scale Spillovers and Jumps
Gaoxiu Qiao, Southwest Jiaotong University
- 09:18 条件异方差的分位数单位根检验及对原油价格非对称持久性的研究
Jinbao Wei, Jiangxi University of Finance and Economics
- 09:34 Structural Reconstruction in the Carbon-Energy Risk Network: Evidence from Layered External Shocks
Pei Zhang, Shanxi University of Finance and Economics
- 09:50 基于最小绝对误差准则的稳健卡尔曼滤波
Jiakun Guo, Lanzhou University

Contributed Session CS23: Machine Learning and Artificial Intelligence

Venue: Yangming Conference Room, 3rd Floor, Duocai Hotel

Chair: Yiting Li

- 08:30 交智未来：基于模糊规则的正交表征学习交通预测模型
Langsha Zhu, Guizhou University of Finance and Economics
- 08:46 基于 Hermitian Laplacian 谱分析的有向动态图异常检测方法研究
Yulei Yue, Guizhou University of Finance and Economics
- 09:02 基于改进的 Deeplabv3+蜡染图像纹样分割研究
Junjie Wang, Guizhou University of Finance and Economics
- 09:18 Variational Mode Decomposition Optimized by Tornado Optimization Algorithm Combined with Wavelet Thresholding for Neuronal Spike Signal Denoising
Can Ma, Guizhou University of Finance and Economics
- 09:34 基于 Double Q-Learning 算法与声誉机制的人机共同演化
Xuexue Yang, Guizhou University of Finance and Economics
- 09:50 贵州省非物质文化遗产的智能化统计实践——以蜡染文化为例
Yiting Li, Guizhou University of Finance and Economics

2026-07-13 10:30-12:10

Invited Session IS070: Modern Machine Learning Theory

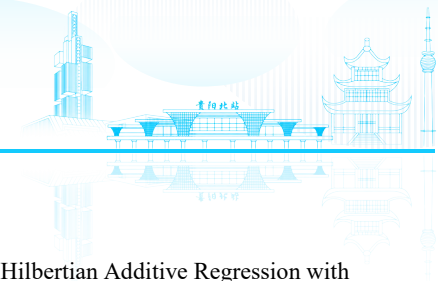
Venue: Colourful Guizhou Ballroom 2

Organizer: Tracy Ke

Chair: Jingming Wang

- 10:30 Semi-Supervised Learning on Graphs with GNNs
Olga Klopp, ESSEC Business School
- 10:55 Transfer Learning on Edge Connecting Probability Estimation Under Graphon Model
Huimin Cheng, Boston University

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- 11:20 Fiedler Sign Consistency for Hierarchical Stochastic Block Models
Xiaodong Li, University of California, Davis
- 11:45 Nuisance Parameter Tuning for Inference in Observational Studies
Rajarshi Mukherjee, Harvard University

Invited Session IS071: Complex Data Analysis

Venue: Colourful Guizhou Ballroom 1

Organizer: Long Feng

Chair: Long Feng

- 10:30 A Computationally Efficient Double-Group Binary Segmentation Method for Multiple Change-Point Detection
Dan Zhuang, Fujian Normal University
- 10:55 Complex Football Data Analysis: From Odds-Informed Quantitative Strategies to Advanced Event Valuation
Decai Liang, Nankai University
- 11:20 Double Robust High Dimensional Alpha Test for Linear Factor Pricing Model
Hongfei Wang, Nanjing Audit University
- 11:45 Changepoint Detection in Complex Models: Cross-Fitting Is Needed
Chengde Qian, Shanghai Jiao Tong University

Invited Session IS072: Decoding Complex Structures: From Dimension Reduction to Deep Generative Models

Venue: Colourful Guizhou Ballroom 3

Organizing Society: Korean Statistical Society

Organizer: Cheolwoo Park, Sungkyu Jung

Chair: Ilsuk Kang

- 10:30 Exploiting Training Dynamics for Anomaly Detection in Deep Generative Models
Dongha Kim, Sungshin Women's University
- 10:55 An Association Measure for Mixed-Types Variables
Yongjae Kim, Institute for Data Innovation in Science, Seoul National University
- 11:20 Bayesian Sufficient Dimension Reduction via Envelope Models
Kwangmin Lee, Chonnam National University

- 11:45 Hilbertian Additive Regression with General Estimated Variables
Jeong Min Jeon, Seoul National University

Contributed Session CS24: Privacy and Differential Privacy and Quantile and Robust Methods

Venue: Yongkang Room

Chair: Zelin Xiao

- 10:30 Interpretable Causal Mediation Analysis with Graph Autoencoders
Zhe Fei, UC Riverside
- 10:46 Power Enhancing Probability Subsampling Using Side Information
Junzhuo Gao, City University of Hong Kong
- 11:02 Type-Preserving Differentially Private Data Release for Versatile Analysis of Mixed-Type Data
Qilong Lu, Peking University
- 11:18 Online Robust Locally Differentially Private Learning for Nonparametric Regression
Chenfei Gu, Shanghai University of Finance and Economics
- 11:34 从聚合型多样性到结构权变贡献：基于图学习解析团队异质知识的整合机制
Yihao Huang, Central University of Finance and Economics
- 11:50 极小极大最优的在线非平稳强化学习
Zelin Xiao, Peking University

Invited Session IS073: Stochastic Partial Differential Equations

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Tusheng Zhang

Chair: Tusheng Zhang

- 10:30 Dynamic Mean-Variance Problem with Frictions
Guiyuan Ma, Xi'an Jiaotong University
- 10:55 Stochastic Reaction-Diffusion Equations with Super-Linear Drift
Shijie Shang, University of Science and Technology of China
- 11:20 Joint Law Limits for Non-Autonomous Multi-Scale Diffusions with Irregular Coefficients
Longjie Xie, Jiangsu Normal University

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- 11:45 Stochastic Wave Equation with Additive Fractional Noise: Solvability and Global Hölder Continuity
Xiong Wang, Sun Yat-sen University

Invited Session IS074: Rank and Graph-Based Methods

- Venue: Qunsheng Room
Organizing Society: IMS China
Organizer: Fang Han
Chair: Fang Han
- 10:30 From Graph-Based Tests to Graph-Induced Ranks: Two-Sample Inference for Complex Data
Hao Chen, University of California, Davis
- 10:55 Limit Theorems of Azadkia-Chatterjee's Conditional Graph Correlation
Muhong Gao, University of International Business and Economics
- 11:20 Statistical Limits and Power Boosting for High Dimensional Two Sample Test
Yaowu Zhang, Shanghai University of Finance and Economics
- 11:45 Randomized Optimal Switching Problem and Related Mirror Descent Flow
Yuchao Dong, Tongji University

Invited Session IS075: Statistical Methods in Earth Sciences

- Venue: Xijiang Room
Organizer: Song Xi Chen
Chair: Yumou Qiu
- 10:30 数据驱动方法在三维海洋信息重构中的应用
Zhen Gao, Ocean University of China
- 10:55 Statistics-Assisted Ocean Observing: Designing, Guiding, and Reconstructing Mesoscale Eddy
Wu Su, Peking University
- 11:20 On the Eigenvalues of the Kernel Matrices and Their Applications to Spatial Statistics
Hao Zhang, Michigan State University
- 11:45 Non-Identifiability of Proxy-Based AMOC Early-Warning Signals under Red Noise
Ziyun Zhu, Tsinghua University

Invited Session IS076: Advances in Statistical Methods for Complex Health and Genomics Data: Diagnostics, Modeling, Annotation, and Application

- Venue: Zhenyuan Room
Organizer: Depeng Jiang
Chair: Depeng Jiang
- 10:30 Subspace Change Point Detection and Clustering
Xuehu Zhu, Xi'an Jiaotong University
- 10:55 Tweedie Compound Poisson Mixed Models for Semicontinuous Data
Guohua Yan, University of New Brunswick
- 11:20 Cell Type Annotation Using Single-Cell Sequencing Data
Xuekui Zhang, Zhejiang University of Technology
- 11:45 Advancing Cluster-Based Prevention Programs Using Mixed Effects Location-Scale Models
Depeng Jiang, University of Manitoba

Invited Session IS077: Advanced Statistical Learning: Distribution-Free, Scalable and Cost-Efficient Inference

- Venue: Libo Room
Chair: Wei Zhong
Organizer: Wei Zhong
- 10:30 Distribution-Free Prediction Sets for Regression under Target Shift
Yanlin Tang, East China Normal University
- 10:55 Subsampling-Based Convolved Rank Regression for Massive Data
Xiaochao Xia, Chongqing University
- 11:20 Cost-Aware Portfolios in a Large Universe of Assets
Songshan Yang, Renmin University of China
- 11:45 Online Kernel-Based Mode Learning
Weixin Yao, University of California, Riverside

Invited Session IS078: Some Recent Topics in Causal Inference

- Venue: Baihua Meeting Room
Organizer: Rajarshi Mukherjee
Chair: Rajarshi Mukherjee

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- 10:30 Data-Automated Policy Learning for Nonlinear Welfare
Zheng Zhang, Renmin University of China
- 10:55 Optimal Nuisance Function Tuning for Estimating a Doubly Robust Functional under Proportional Asymptotics
Zixiao Wang, Harvard University
- 11:20 Where Best to Intervene?
Caleb Miles, Columbia University

Invited Session IS079: High-Dimensional Independence and Nonparametric Testing Methods

Venue: Hongfeng Meeting Room
Organizer: Wenliang Pan
Chair: Ruizhe Jiang

- 10:30 Distribution-Free Robust Independence Test for High-Dimensional Data via Semi-Grothendieck's Divergence
Ruizhe Jiang, Jinan University
- 10:55 Test of Multivariate Independence via Comparing Two Bivariate Means
Yeqing Zhou, Tongji University
- 11:20 Testing Independence and Conditional Independence in High Dimensions via Coordinatewise Gaussianization
Jing He, Southwestern University of Finance and Economics

Invited Session IS080: Statistical Learning, Networks, and Decision Science

Venue: Doupeng Mountains Meeting Room
Organizer: Hansheng Wang
Chair: Hansheng Wang

- 10:30 Deep Autoencoders for Nonlinear Factor Models: Theory and Applications
Zhouyu Shen, Peking University
- 10:55 Bi-SCORE for Weighted Bipartite Networks with Application in Knowledge Source Discovery
Rui Pan, Central University of Finance and Economics
- 11:20 Multi-Relational Network Autoregression Model with Latent Group Structures
Yimeng Ren, The Hong Kong University of Science and Technology
- 11:45 Byzantine-robust Federated Learning via Convex Hull Search
Zhao Chen, Fudan University

Invited Session IS081: Large Cohort, Big Data and Disease Precision Prevention

Venue: Songbai Mountains Multifunctional Meeting Room
Organizing Society: Biostatistics Branch of Chinese Preventive Medicine Association
Organizer: Yongyue Wei
Chair: Yongyue Wei

- 10:30 基于CKB队列心电图数据的多疾病风险预测深度学习模型
Canqing Yu, Peking University
- 10:55 多队列多组学数据赋能肺癌精准风险评估
Ruyang Zhang, Nanjing Medical University
- 11:20 基于珠江队列的环境暴露健康因果效应探索
Wangjian Zhang, Sun Yat-sen University
- 11:45 基于鄞州百万人群的肺癌风险预测模型集成新方法
Yongyue Wei, Peking University

Invited Session IS082: Advances in Statistical Methods for Biomedical and Clinical Studies

Venue: Fanjing Mountains Meeting Room
Organizer: Jing Lei
Chair: Jing Lei

- 10:30 Generalized Win-Odds Regression Models for Composite Endpoints
Yu Cheng, University of Pittsburgh
- 10:55 Survival Prediction Conditional on Multiple Longitudinal Biomarkers
Kehui Chen, University of Pittsburgh
- 11:20 Decomposing Differences in Cohort Health Expectancy by Cause and Age with Longitudinal Data
Tao Sun, Renmin University of China
- 11:45 Interim Analysis in Sequential Multiple Assignment Randomized Trials for Survival Outcomes
Zi Wang, University of Electronic Science and Technology of China

Contributed Session CS25: Survival Analysis and High-Dimensional Modeling for Biomedical Applications

Venue: Qingyan Boardroom
Chair: Mengyu Li

- 10:30 Generalized Win Fraction Regression for Composite Survival Endpoints
Zhiqiang Cao, Shenzhen Technology University

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- 10:46 FedCox: 联邦式局部自适应 Cox 比例风险模型
Changyue Wu, Xiamen University
- 11:02 Robust Variable Selection in High-Dimensional Survival Analysis
Yunwei Zhang, Murdoch University
- 11:18 Identifying Shared Prognostic Genes in Pan-Cancer Studies: A Survival Analysis Approach with a Locally Weighted Group-Penalized Accelerated Failure Time Model
Tengdi Zheng, Beijing University of Technology
- 11:34 Deep Semiparametric Regression under Unequal Probability Sampling
Sijie Xu, Shanghai Jiao Tong University
- 11:50 Semiparametric Model Averaging Prediction in Nested Case-Control Studies
Mengyu Li, Northeastern University at Qinhuangdao

Contributed Session CS26: Advances in Trustworthy and Decentralized Learning

Venue: Huangguoshu Theater Meeting Room

Chair: Ruiyao Gao

- 10:30 Empirical Likelihood-Based Fairness Auditing: Distribution-Free Certification and Flagging
Jie Tang, Beijing Normal University
- 10:46 Decomposition for Bayesian Networks via Minimal D-Separation Tree: Local and Parallel Inference
Yi Sun, Xinjiang University of Finance and Economics
- 11:02 A Bias-Correction Decentralized Stochastic Gradient Algorithm with Momentum Acceleration
Yuchen Hu, Shanghai Jiao Tong University
- 11:18 大语言模型驱动多源复杂调查数据的社会风险测度: 文献综述与未来展望
Feng Wang, Shanxi University of Finance and Economics
- 11:34 A Decentralized Support Vector Machine Based on Majorization-Minimization and ADMM
Li Zhang, Soochow University

- 11:50 Non-convex Penalized Average Hyperplane Support Vector Machine for Multiclass Classification
Ruiyao Gao, Xiamen University

Contributed Session CS27: Advances in High-Dimensional and Spatial Data Analysis

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Yaqi Cao

- 10:30 Forecasting in Global Energy Futures Markets: A Generalized Random Forest Approach
Wenzhuo Tian, Shanghai University of Engineering Science
- 10:46 High-Dimensional Spatial Autoregression with Latent Factors by Diversified Projections
Jiaxin Shi, Peking University
- 11:02 A TimeGPT-GARCH Family Model Incorporating Multi-Source Information Fusion for Volatility Forecasting in China's Financial Markets
Haiqing Chen, Nanjing University of Finance and Economics
- 11:18 共同富裕视域下黄河流域乡村产业振兴对农村人居环境碳排放的非线性效应及提升路径研究
Yaen Xue, Inner Mongolia University of Finance and Economics
- 11:34 “以数治税” 何以提升地方财政可持续性?
Luyao Ma, Xinjiang University of Finance and Economics
- 11:50 Distribution-Free Conformal Prediction for Uncertainty-Aware Medical Text Triage with Hierarchical Language Models
Yaqi Cao, Minzu University of China

Contributed Session CS28: Hypothesis Testing and Privacy and Differential Privacy

Venue: Executive Meeting Room, 12th Floor,

Qunsheng Howard Johnson

Chair: Jiajun Sun

- 10:30 Collaborative Inference for Sparse High-Dimensional Models with Non-Shared Data
Yifan Gu, Renmin University of China

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- 10:46 Analysis of Quadratic Forms of High-Dimensional Non-Stationary Time Series, with Application to ANOVA and Independent Testing
Yunyi Zhang, The Chinese University of Hong Kong, Shenzhen
- 11:02 Distributed Hypothesis Testing for High Dimensional Mutual Independence
Xiangyu Shi, Nanjing Forestry University
- 11:18 Differentially Private Gaussian Graphical Model: Optimality, Algorithm and FDR Control
Jiajun Sun, Xiamen University
- 11:34 Noncentral Normal-Reference Transfer Theory for High-Dimensional L^2 Mean Tests
Pengfei Wang, Nanyang Technological University
- 11:50 Minimax Detection of Localized Underdensity in Uniformity Testing on Closed Manifolds
Jixin Wang, Imperial College London

Contributed Session CS29: Advances in Financial Economics and Policy Analysis

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel
Chair: Juan Lin

- 10:30 Tail-Driven Nonparametric Estimation for State Price Densities
Yating Wan, Tianjin University of Finance and Economics
- 10:46 人工智能与企业韧性——基于国家新一代人工智能创新发展试验区
Jiawei Pu, Zhongnan University of Economics and Law
- 11:02 中国货币政策有效性研究：基于稳增长与防风险双重目标的宏微观动态分析
Jiahui Li, Beijing Normal University
- 11:18 算力基础设施建设能否促进科技创新与产业创新深度融合？——来自国家超算中心的证据
Huixin Zhao, Xinjiang University of Finance and Economics
- 11:34 零售业数字化转型对创新影响研究
Yukun Zhao, Jimei University

- 11:50 Beyond Conventional Sentiment Indicators: Cryptocurrency's Hidden Potential in VIX Forecasting
Juan Lin, Xiamen University

Contributed Session CS30: Advances in Complex Systems and AI-Driven Optimization

Venue: Yangming Conference Room, 3rd Floor, Duocai Hotel
Chair: Xiaopeng Li

- 10:30 Hypergraph Closeness Energy Centrality: An s-Distance Based Approach for Identifying Influential Nodes
Chuan Ran, Guizhou University of Finance and Economics
- 10:46 Complex Dynamical Analysis of the Frackiewicz Quantum Commons Game with Bounded Rationality
Xingjing Zhang, Guizhou University of Finance and Economics
- 11:02 低空物流无人机辅助无线传感器网络中数据采集的轨迹与传输功率优化
Shifen Luo, Guizhou University of Finance and Economic
- 11:18 基于多智能体强化学习的云制造分布式车间绿色动态调度
Guiyuan Zeng, Guizhou University of Finance and Economics
- 11:34 中国数字经济发展水平测度、时空差异与趋势预测研究——基于多源数据与机器学习分析
Xiang Li, Guizhou University of Finance and Economics
- 11:50 自我高估诱导的非对称比较促进了社会困境中的合作演化
Xiaopeng Li, Guizhou University of Finance and Economics

2026-07-13 13:30-15:10

Invited Session IS083: Recent Advances in Model Free Inference

Venue: Colourful Guizhou Ballroom 2
Organizer: Yin Xia
Chair: Yin Xia

- 13:30 Evaluating Black-Box Classifiers via Stable Adaptive Two-Sample Inference
Jing Lei, Carnegie Mellon University

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13:55 Conformalized Large-Scale Selective Inference with Informative and Trustworthy Prediction Sets

Wenguang Sun, Zhejiang University

14:20 Conformal Selective Prediction with General Risk Control

Ying Jin, University of Pennsylvania

14:45 Generalized Boundary FDR Control under Arbitrary Dependence: An Approach on Closure Principle

Haojie Ren, Shanghai Jiao Tong University

Invited Session IS084: Recent Advances in Statistical Modeling for Complex Data

Venue: Colourful Guizhou Ballroom 1

Organizer: Xiang Zhan

Chair: Xiang Zhan

13:30 Addressing Heterogeneity in High-Dimensional Regression through Bayesian Structured Sparse Clustering

Guanyu Hu, Michigan State University

13:55 Cox-MK: A Model-X Knockoff Method for Genome-Wide Survival Association Analysis

Shiyang Ma, Shanghai Jiao Tong University

14:20 Prioritizing Druggable Targets by Mapping Human Disease-Associated Coding Variants onto Protein Structures

Zilin Li, Northeast Normal University

14:45 Joint High-Dimensional Inference for Mixed-Type Multi-Response Regression

Chong You, Fudan University

Invited Session IS085: Frontiers in Pharmaceutical Statistics

Venue: Colourful Guizhou Ballroom 3

Organizer: Yingchun Zhou

Chair: Yingchun Zhou

13:30 Synergy Evaluation for Drug Combinations: From Classical Concepts to Model-Based Approaches

Xiaolei Xun, BeOne Medicines Ltd.

13:55 Bayesian Borrowing in Confirmatory Trials: Priors, Performance, and Implementation in Practice

Wentian Guo, AstraZeneca

14:20 AI-Powered Digital & Intelligent Platforms in Pharmaceuticals with Key Considerations

Jingjun Qiu, Shanghai Fosun Pharmaceutical (Group) Co., Ltd.

14:45 Adaptive Dose Selection in Phase II/III Inferentially Seamless Design

Hongyu Tang, Caidya

Contributed Session CS31: Statistical Innovations for Environmental, Climate, and Urban Systems

Venue: Yongkang Room

Chair: Yongkang Li

13:30 基于船测丰度约束的海底地形深度构建方法
Chao Wang, Jiangxi University of Finance and Economics

13:46 A Nudging-Based Multigrid Ocean Data Assimilation System in North Pacific
Binghao Wang, Peking University

14:02 Asymptotic Theory for Generalized Total Least Square for Optimal Fingerprint Estimation in Climate Change Studies with Non-Gaussian Errors

Haocheng Li, Tsinghua University

14:18 A Real-Time Protection Procedure for Computerized Adaptive Testing Under Item Preknowledge via Online Bayesian Changepoint Detection

Chunyu Pu, Northeast Normal University

14:34 局部散度惩罚与多专家混合 ϵ -过程: 分布自由序贯变点检验的鲁棒方法

Yongkang Li, Sichuan University

14:50 探究城市活力与建成环境的关联机制: 多源数据驱动的非线性特征与阈值效应研究
Ruilin Wang, Chengdu University of Technology

Invited Session IS086: Branching Processes and Related Models

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Xinxin Chen

Chair: Quan Shi

13:30 Towards Central Limit Theorem of Critical Branching Random Walks
Tianyi Bai, Chinese Academy of Sciences

13:55 二维高斯自由场的臂概率
Yifan Gao, Westlake University

14:20 Branching Random Walks and Percolation on Hyperbolic Groups
Longmin Wang, Nankai University



- 14:45 Cover Times for Random Walk on Subcritical Dynamical Percolation
Yushu Zheng, Chinese Academy of Sciences

Invited Session IS087: Mean Field Stochastic Control Problems and Related Topics

Venue: Qunsheng Room
Organizing Society: IMS China
Organizer: Juan Li
Chair: Juan Li

- 13:30 Sequential Propagation of Chaos for Mean-Field BSDE Systems
Kai Du, Fudan University
- 13:55 The Deep Truncated FBSDE Method: A Robust Solver for High-Dimensional PDEs
Yunzhang Li, Fudan University
- 14:20 Comparison Theorems for Mean-Field BSDEs Whose Generators Depend on The Law of The Solution (Y, Z)
Chuanzhi Xing, Shandong University
- 14:45 Doubly BSDE and SPDE with Quadratic Growth
Jiaqiang Wen, Southern University of Science and Technology

Invited Session IS088: Stein Method with Recent Advances

Venue: Xijiang Room
Organizing Society: IMS China
Organizer: Zhonggen Su
Chair: Zhonggen Su

- 13:30 Rank Deficiency of Bernoulli Random Matrices for Large k
Hanchao Wang, Shandong University
- 13:55 Rates of Convergence in the Distances of Kolmogorov and Wasserstein for Standardized Martingales
Xiequan Fan, Northeastern University at Qinhuangdao
- 14:20 Refined Berry-Esseen Bounds under Local Dependence
Zhuosong Zhang, Southern University of Science and Technology
- 14:45 High-Dimensional Normal Approximations for Sums of Langevin Markov Chains
Xiaolin Wang, The Chinese University of Hong Kong

Invited Session IS089: Advanced Methods for Inference with Data from Multiple Sources

Venue: Zhenyuan Room
Organizer: Puying Zhao
Chair: Puying Zhao

- 13:30 Calibration-Based Estimation Method for Nonignorable Non-Probability Survey Samples
Changbao Wu, University of Waterloo
- 13:55 Bias-Corrected Byzantine-Robust Estimator via Cornish-Fisher Expansion for Distributed Learning
Zhonglei Wang, Xiamen University
- 14:20 Downscaling Public-Use Microdata for Small Area Estimation via Calibration and Population Synthesis
Zhengyuan Zhu, Iowa State University
- 14:45 Agnostic Model-Assisted Estimation with Machine Learning for Survey Data
David Haziza, University of Ottawa

Invited Session IS090: Robust Theory and Frontier Applications of Large Models and Embodied Intelligence

Venue: Libo Room
Organizer: Bingyi Jing
Chair: Fan Zhou

- 13:30 Structure-Aware Variation Regularization for Robust Deep Learning
Guohao Shen, The Hong Kong Polytechnic University
- 13:55 Controlling OOD Error in Offline Model-Based Optimization via Wasserstein Distributionally Robust Optimization
Liangyu Zhang, Shanghai University of Finance and Economics
- 14:20 Large Language Models in the Financial Domain
Liwen Zhang, Shanghai University of Finance and Economics
- 14:45 Renewable Regression Inference with Heterogeneous and Periodic Streaming Data
Xuerong Chen, Southwestern University of Finance and Economics

Invited Session IS091: Frontiers in Causal Inference and High-Dimensional Data Analysis

Venue: Baihua Meeting Room
Organizer: Jianqiao Wang
Chair: Zijun Gao

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- 13:30 Causal Partial Identification via Optimal Transport
Zijun Gao, University of Southern California
- 13:55 Root Cause Discovery
Jinzhou Li, National University of Singapore
- 14:20 Nonparametric Estimation and Inference with Elliptic PDE Priors
Wenlu Xu, UCLA

Invited Session IS092: 半监督学习与高维数据

Venue: Hongfeng Meeting Room

Organizer: Yong Zhou

Chair: Yong Zhou

- 13:30 Adaptive Semi-Supervised Inference for Estimating Equations: A Nonparametric Projection Approach using ReQU Neural Networks
Shanshan Song, Tongji University
- 13:55 Deep Transformation Model
Tong Wang, Southeast University
- 14:20 Dynamic Logistic Normal Multinomial Model for Microbiome Data
Shucong Zhang, University of International Business and Economics
- 14:45 High-Resolution Inversion of Ocean Surface Current Fields via Diffusion Priors and Multimodal Constraints
Shuyi Zhang, East China Normal University

Invited Session IS093: Microeconometrics

Venue: Doupeng Mountains Meeting Room

Organizer: Ying Fang

Chair: Ming Lin

- 13:30 Estimating Intergenerational Mobility via a Time-Varying Mixed Copula Method
Zongwu Cai, University of Kansas
- 13:55 Estimating Counterfactual Distributions under Staggered Adoption in Short Panels
Ming Lin, Xiamen University
- 14:20 提升面板数据模型中 PCA 估计量的稳健性
Liangjun Su, Tsinghua University
- 14:45 Marginal Treatment Effect in High Dimension Setting
Yahong Zhou, Shanghai University of Finance and Economics

Invited Session IS094: Recent Advances of Modern Machine Learning

Venue: Songbai Mountains Multifunctional Meeting Room

Organizer: Yuling Jiao

Chair: Yuling Jiao

- 13:30 Semi-Supervised Conditional Generative Learning through Stochastic Interpolation and Sufficient Representations
Changyu Liu, Wuhan University
- 13:55 Spiked Matrix Models with Rotationally Invariant Noise: AMP Algorithms and Optimality
Junjie Ma, Chinese Academy of Sciences
- 14:20 Distribution Matching for Self-Supervised Transfer Learning
Wensen Ma, The Hong Kong Polytechnic University
- 14:45 对称性先验嵌入的深度学习
Qi Xie, Xi'an Jiaotong University

Contributed Session CS32: Advances in Statistical Learning and Causal Discovery

Venue: Fanjing Mountains Meeting Room

Chair: Xuemei Hu

- 13:30 A General Framework of Kalman Smoother for High-Dimensional Nonlinear Dynamic Systems
Haoxiang Zhan, Peking University
- 13:46 Bayesian Network Based Inference for Multivariable Mendelian Randomization
Jiangyan Wang, Nanjing Audit University
- 14:02 Improving Dynamic Treatment Regimes Using External Evidence
Zhenyu Wang, University of Michigan
- 14:18 Semiparametric Estimation with Reduced Dimension for the Treatment Effect in Causal Inference under Missing Data
Tao Tan, Xinjiang University
- 14:34 High Dimensional Maximum Likelihood Theory for Poisson Regression with Increasing Dimensions
Xuemei Hu, Chongqing Technology and Business University



- 14:50 Evaluating Treatment Effects Using Group Testing with Retesting of Positive Groups
Qi Zheng, University of Louisville

Contributed Session CS33: Statistical Innovations for Single-Cell and High-Throughput Biomedical Data

Venue: Qingyan Boardroom

Chair: Jiasheng Li

- 13:30 Differential Inference for Single-Cell RNA-Sequencing
Fangda Song, The Chinese University of Hong Kong, Shenzhen
- 13:46 Gene Set Mediation Analysis in High-Dimensional Epigenetic Studies
Yuzhao Gao, Shanxi University of Finance and Economics
- 14:02 Block Empirical Likelihood Inference for Longitudinal Generalized Partially Linear Single-Index Models
Tianni Zhang, Xi'an Jiaotong-Liverpool University
- 14:18 Rare Coding and Noncoding Variants Map 1,342 Diseases and Biomarkers in 490,549 Whole Genomes
Yuxin Yuan, Dongbei Normal University
- 14:34 Efficient Causal Inference for Survival Outcomes with External Controls via Machine Learning Methods
Xiaoqi Jiao, East China Normal University
- 14:50 Joint Inference of SCRNA-Seq and SCATAC-Seq for Cell-Type Specific Cis-Regulatory Effects (J-RACE)
Jiasheng Li, The Chinese University of Hong Kong, Shenzhen

Contributed Session CS34: Advances in Fair and Efficient Machine Learning

Venue: Huangguoshu Theater Meeting Room

Chair: Zongqing Chen

- 13:30 AI-Assisted Optimal Functional Estimation
Xiaotian Hou, University of Pennsylvania
- 13:46 Fairness-Aware Bayes Optimal Functional Classification
Xiaoyu Hu, Xi'an Jiaotong University

- 14:02 Efficient Human-in-the-Loop Active Learning: A Novel Framework for Data Labeling in AI Systems
Yiran Huang, Nankai University
- 14:18 Transfer Learning for Robust Functional Linear Regression
Jiaya Wu, Shanghai Jiao Tong University
- 14:34 Decentralized Fairness-Aware Generalized Linear Model
Zhengrong Yu, Shanghai Jiao Tong University
- 14:50 FAIR-AL: Fair and Efficient Active Learning by Auditing Demographic Query Drift-A Feature-Based ASD Screening Case Study
Zongqing Chen, Chongqing Normal University

Contributed Session CS35: Recent Developments in Factor Analysis and Dimension Reduction

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Li Shi

- 13:30 因子模型的设定误差及其改进
Haiming Lin, Zunyi Normal University
- 13:50 如何用 SAS 软件计算因子分析应用结果
Juncai Chen, Guangdong University of Finance and Economics
- 14:10 旋转后因子分析综合评价的应用-基于因子分析最小误差模型
Zhongyan Li, Guangdong University of Finance and Economics
- 14:30 因子分析综合评价研究综述
Zhaode Liu, Guangdong University of Finance and Economics
- 14:50 主成分分析模型的改进与检验研究
Li Shi, Guangzhou Huashang College

Contributed Session CS36: Experimental Design and Educational Measurement and Psychometrics

Venue: Executive Meeting Room, 12th Floor,

Qunsheng Howard Johnson

Chair: Yi Ding

- 13:30 Change Point Detection for Large-dimensional Factor Models: A New Perspective from Subspace Distance
Yalin Wang, Shandong University

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- 13:46 Distributed Estimation for Heterogeneous Linear Models with Missing Values
Zhongyang Liu, Beijing University of Technology
- 14:02 Space-Filling Order-of-Addition Designs Based on the Kendall-Tau Distance
Hui Shao, East China Normal University
- 14:18 Empirical Likelihood Based Change Point Detection in Linear Regression Model with Skew-Normal Errors
Sha Li, Beijing Normal University
- 14:34 Efficient Adaptive Approximate Zig-Zag Sampler for IRT Models
Rui Tian, Northeast Normal University
- 14:50 Likelihood-Based Change Point Detection in Sparse Dynamic Networks
Yi Ding, University of International Business and Economics

- 13:46 数字产品创新对企业韧性的影响研究——基于行业技术关联网络的调节效应分析
Na Dai, Guizhou University of Finance and Economics
- 14:02 隐性担保、市场担保对城投债发行利差的影响
Qiu Liu, Guizhou University of Finance and Economics
- 14:18 基于多层复杂网络的碳纤维复合材料产业链风险传播研究
Heng Zhao, Guizhou University of Finance and Economics
- 14:34 基于 PADIS-INT 的省域中长期人口老龄化的城市—镇—乡村差异研究
Wenjing Ran, Guizhou University of Finance and Economics
- 14:50 耦合液态神经网络的深度函数因子模型
Xiuchun Bi, Guizhou University of Finance and Economics

Invited Session IS095: 复杂数据学习理论与算法

Venue: Meeting Room, 1st Floor, Qunsheng Garden Hotel

Organizer: Song Xi Chen

Chair: Pengkun Yang

- 13:30 神经网络 Hessian 阵的特性及其对算法分析的应用
Ruoyu Sun, The Chinese University of Hong Kong, Shen Zhen
- 13:55 Explainable Machine Learning through Efficient Data Attribution
Han Zhao, University of Illinois at Urbana-Champaign
- 14:20 Universal Priors: Solving Empirical Bayes via Bayesian Inference and Pretraining
Yanjuan Han, New York University
- 14:45 Fundamental Limits of Community Detection in Contextual Multi-Layer Stochastic Block Models
Zhangsong Li, Peking University

Contributed Session CS37: Applied Statistics for Economics and Society

Venue: Yangming Conference Room, 3rd Floor, Duocai Hotel

Chair: Xiuchun Bi

- 13:30 政府监管、融资约束与企业技术升级
Ya Gao, Guizhou University of Finance and Economics

2026-07-13 15:30-17:10

Contributed Session CS38: Robust and Distributed Statistical Learning with Subsampling and Transfer Learning

Venue: Colourful Guizhou Ballroom 2

Chair: Huali Zhao

- 15:30 基于混合数据学习半参数树模型
Can Zhou, Nanjing Audit University
- 15:46 Minimax Optimal Robust Sparse Regression with Heavy-Tailed Designs: A Gradient-Based Approach
Kaiyuan Zhou, Shanghai Jiao Tong University
- 16:02 Poisson Subsampling-Based Estimation for Growing-Dimensional Expectile Regression Inmassive Data
Xiaoyan Li, Chongqing Technology and Business University
- 16:18 网络下的高效实验设计与主动学习
Zhiheng Zhang, Shanghai University of Finance and Economics
- 16:34 Decentralized Robust Online Policy Evaluation
Jiayan Chen, Shanghai Jiao Tong University
- 16:50 Doubly Robust Transfer Learning Under Sub-Group Shift for Cohort-Level Missing Indicator Covariates
Huali Zhao, Tsinghua University

2026-07-13 P.M.



Contributed Session CS39: Statistical Methods for Biomedical and Genomic Studies

Venue: Colourful Guizhou Ballroom 1

Chair: Yinan Lin

- 15:30 A Novel Exact Confidence Interval for the Difference of Proportions in Paired Data Using a Restricted Most Probable Statistic
Xingyun Cao, Chongqing Technology and Business University
- 15:46 Efficient Genome-Wide Association Studies via Low-Rank Approximations
Zhongyuan Chen, Nanjing University
- 16:02 Variational Bayesian Estimation for Joint Models of Longitudinal and Interval-Censored Failure Time Data with Random Change-Points
Fengting Yi, Yunnan University
- 16:18 Tensor-on-Vector Regression with Interactions with Application to FMRI Data
Jinwen Liang, Beijing University of Technology
- 16:34 Statistical and Machine Learning Modelling of HLA-I Peptide Presentation Landscapes
Yinfei Yang, Imperial College London
- 16:50 Testing High-Dimensional Mediation Effect with Arbitrary Exposure–Mediator Coefficients
Yinan Lin, National Center for Applied Mathematics in Chongqing

Contributed Session CS40: Advances in Economic and Social Data Science

Venue: Colourful Guizhou Ballroom 3

Chair: Lingling Tian

- 15:30 宏观审慎管理、房地产市场发展与系统性金融风险
Hui Wei, Xinjiang University of Finance and Economics
- 15:46 社会核算矩阵稳态均衡模型研究
Ke Liang, Shanxi University of Finance and Economics
- 16:02 基于 SEEA-EA 海洋生态系统核算的国际标准、国外实践及启示
Yue Gu, Shanxi University of Finance and Economics

- 16:18 Precision Matrix Estimation for Multiple Compositional Vectors
Shen Zhang, Qufu Normal University
- 16:34 退市制度改革能够提高企业投资效率吗?——来自壳资源企业的证据
Dejin Tao, Xinjiang University of Finance and Economics
- 16:50 Estimation for Partially Time-Varying Spatial Autoregressive Panel Data Model under Linear Constraints
Lingling Tian, Beijing University of Technology

Contributed Session CS41: Statistical Learning for Spatio-Temporal and Network Data

Venue: Yongkang Room

Chair: Wenhao Chen

- 15:30 Detecting Multiple Changepoints in the Annual Number of Snowy Weeks via Latent Gaussian Beta-Binomial Modeling and Pairwise Likelihood
Qiqi Lu, Virginia Commonwealth University
- 15:46 Identifying the Dynamic Spreading Mechanism of Livestock Infectious Diseases Using Multivariate Hawkes Processes
Wenhao Chen, The Chinese University of Hong Kong, Shenzhen
- 16:02 融合双域变换的地震数据低秩恢复方法
Zeyu Zeng, Chengdu University of Technology/Chengdu Bureau of Statistics
- 16:18 Identifying Chinese Leading Venture Capital Firms Using Investing Preference-Enhanced Graph Neural Networks
Mingyu Han, Central University of Finance and Economics
- 16:34 A Multiple Changepoint Detection Method for Examinee Aberrant Behaviors Based on Bootstrap Intensity Scores and Weighted Binary Segmentation
Baoqun Chang, Northeast Normal University
- 16:50 Fit First and Detect Later: A Unified Decoupled Framework for Change Detection in High Dimensions
Bin Liu, Fudan University

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Invited Session IS096: Robustness and Reliability of Statistical Inference in the AI Age

Venue: Xiangyuan Room

Organizing Society: IMS China

Organizer: Linjun Zhang

Chair: Linjun Zhang

- 15:30 Invariance Learning from Heterogeneous Environments via Neural Networks
Cong Fang, Peking University
- 15:55 Making Algorithms Robust to Structured Noise and Beyond
Qiang Sun, Mohamed bin Zayed University of Artificial Intelligence
- 16:20 Whom to Query for What: Adaptive Group Elicitation via Multi-Turn LLM Interactions
Tianwei Gao, University of North Carolina at Chapel Hill

Invited Session IS097: Nonlinear Expectations and Related Topics

Venue: Qunsheng Room

Organizing Society: IMS China

Organizer: Juan Li

Chair: Juan Li

- 15:30 Mean Reflected Backward Stochastic Differential Equations
Falei Wang, Shandong University
- 15:55 超前信息的随机控制
Huilin Zhang, Shandong University
- 16:20 Quadratic Forward Backward Stochastic Differential Equations Driven by G-Brownian Motion
Peng Luo, Shanghai Jiao Tong University

Invited Session IS098: Random Matrix Theory with Recent Advances

Venue: Xijiang Room

Organizing Society: IMS China

Organizer: Zhonggen Su

Chair: Zhonggen Su

- 15:30 Markov Chain Comparisons and Edge Statistics for Inhomogeneous Random Matrices
Dangzheng Liu, University of Science and Technology of China
- 15:55 TBD
Yukun He, Fudan University

- 16:20 Spectral Analysis of Sample Covariance Matrices under Kronecker-Sum Precision Structures
Lili Wang, Zhejiang Gongshang University

- 16:45 Sparsity-Adaptive Concentration Inequalities for Random Polynomials with Applications to Sparse Random Tensor Matrices
Guozheng Dai, Hong Kong University of Science and Technology

Invited Session IS099: Scalable and Privacy-Preserving Statistical Inference for Dynamic Data

Venue: Zhenyuan Room

Organizer: Linglong Kong

Chair: Peijun Sang

- 15:30 Scalable Inference in Functional Linear Regression with Streaming Data
Peijun Sang, University of Waterloo
- 15:55 Online Locally Differentially Private Inference with Streaming Data
Jinhan Xie, Yunnan University
- 16:20 Factor-Augmented Clustering Tree for Time Series
Ting Li, Southern University of Science and Technology
- 16:45 E-BH Based Interaction Identification for Classification with Ultra-High Dimensional Binary Features
Baiguo An, Capital University of Economics and Business

Invited Session IS100: Functional Inequalities and Related Topics

Venue: Libo Room

Organizing Society: IMS China

Organizer: Lian Wu

Chair: Wangjun Yuan

- 15:30 Volume Asymptotics of Intersection and Difference of Schatten Balls
Qiang Zeng, Chinese Academy of Sciences
- 15:55 Noncommutative Functional Inequalities and Their Applications
Sijie Luo, Central South University
- 16:20 非交换索伯列夫不等式
Bang Xu, Xiamen University
- 16:45 循环群上的对数索伯列夫不等式
Gan Yao, Harbin Institute of Technology



Invited Session IS101: Recent Advances in Statistical Inference for Complex Dynamic Data

Venue: Baihua Meeting Room

Organizer: Yao Hu

Chair: Yao Hu

- 15:30 A Class of Threshold Autoregressive Interval Model with a Dynamic Threshold Driven by Explanatory Variables
Kai Yang, Changchun University of Technology
- 15:55 Parameter Estimation for High-Dimensional State-Space Model via Ensemble Kalman Filter
Yang Sun, Peking University
- 16:20 Hierarchical Gaussian Markov Random Field Modeling of Finite Element Models with Boundary Conditions
Yan Wang, Beijing University of Technology
- 16:45 Robust Selection of the Number of Change-Points via FDR Control
Hui Chen, Jiangsu Normal University

Contributed Session CS42: Statistical Learning for Complex Data

Venue: Hongfeng Meeting Room

Chair: Mengyu Wang

- 15:30 Multi-Scale Dynamic Graph Neural Network for Electricity Load Forecasting
Chuanchuan Qin, Shanghai University of Engineering Science
- 15:46 Hierarchically Sparse Neural Networks via Auxiliary Responses
Jiajing Xue, Xiamen University
- 16:02 Transfer Learning for Degree-Corrected Mixed Membership Network Models
Haoran Tang, Shandong University
- 16:18 An Adaptive Test for High-Dimensional Mean Change-Points
Dingyi Yu, Tsinghua University
- 16:34 Closed-Loop Adaptive Monitoring and Fault Isolation for Partially Observed High-Dimensional Data Streams
Yingying Liu, Shanghai University of Finance and Economics
- 16:50 SIRI: Tensor Rank Selection via Stability Index with Random Initializations
Mengyu Wang, Xiamen University

Invited Session IS102: Econometrics

Venue: Doupeng Mountains Meeting Room

Organizer: Qiwei Yao

Chair: Baojun Dou

- 15:30 CP-Factorization for High Dimensional Tensor Time Series and Double Projection Iterations
Guanglin Huang, Southwestern University of Finance and Economics
- 15:55 Large-Scale Curve Time Series with Common Stochastic Trends
Degui Li, University of Macau
- 16:20 Structural Identification for Spatial-Temporal Dynamic Models
Rongmao Zhang, Zhejiang Gongshang University

Invited Session IS103: Statistical and Machine Learning Methods for Brain Signals and BCI

Venue: Songbai Mountains Multifunctional Meeting Room

Organizer: Song Xi Chen

Chair: Huaqing Jin

- 15:30 Residual Covariance Unlocks Robust Mapping of Dynamic Causal Brain Network
Peifeng Tong, Tsinghua University
- 15:55 Functional Regression on Product Manifolds with Application to Continuous Brain Connectivity
Lu Wang, Central South University
- 16:20 Modeling and Forecasting Sleep Dynamics Based on Joint Representation-Prediction Learning
Guokun Zhang, Tsinghua University
- 16:45 Bayesian Inference of a Spectral Graph Model for Brain Oscillations
Huaqing Jin, Tsinghua University

Contributed Session CS43: Advances in Statistical Learning for Social and Environmental Systems

Venue: Fanjing Mountains Meeting Room

Chair: Ziyuan Zhao

- 15:30 How a Parent's Education Shapes Their Children's Academic Achievement: Evidence on Urban-Rural and Gender Disparities in China
Li Xu, Guangdong University of Foreign Studies

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- 15:46 自适应贝叶斯滤波
Xin Liu, China University of Petroleum
- 16:02 基于卡尔曼滤波器同化与神经网络校正的
DMD 三维海洋密度场重构
Honglin Wan, Ocean University of China
- 16:18 考虑时空相关性的最优指纹统计推断及区
域异质性的非线性扩展
Hanyue Chen, Peking University
- 16:34 Multiplier Bootstrap Meets High-
Dimensional PCA: The Good, the Bad
and the Modification
Jiahui Xie, University of California, Davis
- 16:50 Tracking Cognitive Development over
Time: A Longitudinal General-Response
Model for Multi-Type Data in Cognitive
Diagnosis Assessments
Ziyuan Zhao, Northeast Normal University

Contributed Session CS44: Functional and Graphical Models for Complex Biomedical Data

Venue: Qingyan Boardroom

Chair: Tianwei Yu

- 15:30 High-Dimensional Covariate-Dependent
Discrete Graphical Models and Dynamic
Ising Models
Nanwei Wang, University of New
Brunswick
- 15:46 用于整合阿尔茨海默病多模态数据的函数
型-向量贝叶斯层次因子回归模型
Jiayi Fan, Shanghai University of
Finance and Economics
- 16:02 基于距离协方差的函数型条件独立检验与图
结构学习
Yihan Hu, Shanghai University of
Finance and Economics
- 16:18 A Functional Latent Space Model for
Time-varying Networks with
Applications to Clinical Outcomes Data
Guojun Zhu, University of Chinese
Academy of Sciences
- 16:34 Multiplex Gray and White Matter
Networks in Autism Spectrum Disorder:
Differential Topological Alterations and
Transcriptomic Associations
Wei Zhao, Hunan Normal University
- 16:50 组学数据非线性降维与联合分析: 一种新
的快速无需调参的算法
Tianwei Yu, The Chinese University of
Hong Kong, Shenzhen

Contributed Session CS45: Advances in Clustering and Robust Learning

Venue: Huangguoshu Theater Meeting Room

Chair: Jianxi Zhao

- 15:30 A Communication Efficient Boosting
Method for Distributed Spectral
Clustering
Yingqiu Zhu, University of International
Business and Economics
- 15:46 Energy Score-Guided Neural Gaussian
Mixture Model for Predictive
Uncertainty Quantification
Yang Yang, Nankai University
- 16:02 Transfer Learning for Unsupervised
Clustering via Representation Learning
Tianhao Chen, Shandong University
- 16:18 Adversarial Contamination Meets Hard
Thresholding: An Iterative Algorithm
with Signal Adaptivity and Minimax
Optimality
Shixiang Liu, Renmin University of China
- 16:34 Model-Based Clustering of Matrix
Valued Data via Shared Low-Rank
Decomposition
Qiqi Xu, Northeast Normal University
- 16:50 Loss-Induced Binary Code Learning for
Noise-Immune Multi-View Clustering
Jianxi Zhao, Beijing Information Science
and Technology University

Contributed Session CS46: Advances in Network Time Series and Risk Spillovers

Venue: ASEAN Roundtable Forum Meeting Room

Chair: Kewen Shi

- 15:30 县域数字普惠金融空间关联主干网络演化
及韧性研究
Changlan Hong, Chongqing University
of Technology
- 15:46 Reduced-Rank Autoregressive Model for
High-Dimensional Multivariate Network
Time Series
Qi Lv, Shanghai Jiao Tong University
- 16:02 Model-Xt Knockoffs: Controlling the
False Discovery Rate in High
Dimensional Time Series
Zexin Huang, Fudan University
- 16:18 高水平对外开放下我国金融机构风险溢出的研究
Haoya Zhang, Zhongnan University of
Economics and Law



- 16:34 投资者情绪压力与美国经济政策不确定性
对泛能源市场风险连接度的非线性影响：
基于 TVP-SV-VAR 与门限模型
Xiao Li, Shanxi University of Finance
and Economics
- 16:50 Heterogeneous Autoregressive Model for
Symmetric Matrix-Valued Time Series
Kewen Shi, Nanjing Audit University

Contributed Session CS47: Advances in Statistical Methods for Neurological and Psychiatric Disorders

Venue: Executive Meeting Room, 12th Floor,
Qunsheng Howard Johnson
Chair: Hairong Xiao

- 15:30 Closed-Form Confidence Intervals for
Saved Time Using Summary Statistics in
Alzheimer's Disease Studies
Guogen Shan, University of Florida
- 15:46 Travel-Rate Projection Model (TRPM):
A Physiologically Interpretable Model
for Arterial Input Function Estimation in
Dynamic PET
Zhaoyan Xiu, Inner Mongolia University
of Finance and Economics
- 16:02 Joint Structural Break Detection and
Variable Selection in High-Dimensional
Functional Models: With Application to
Sleep EEG Dynamics
Mengfei Ran, Xi'an Jiaotong-Liverpool
University
- 16:18 Cell-Type-Specific Mendelian
Randomization of Four Major
Psychiatric Disorders on Brain Structure
Jiayi Liu, Hunan Normal University
- 16:34 Dynamical Abnormalities Analysis and
Virtual Intervention Studies in Three
Neuropsychiatric Disorders
Shengyi Wang, Hunan Normal
University
- 16:50 Altered States and Transitions in Major
Depressive Disorder and Their Clinical
and Molecular Associations
Hairong Xiao, Hunan Normal University

Contributed Session CS48: Advances in Statistical Modeling for Interdisciplinary Applications

Venue: Meeting Room, 1st Floor, Qunsheng Garden
Hotel
Chair: Fang Liu

- 15:30 某微信公众号异常流量的统计分析与司法
实践
Da Huang, Fudan University

- 15:46 The Invariant Distributions of a
Projected Euler-Maruyama Method for
Stochastic Differential Equations with
Superlinear Diffusion Coefficients
Hongling Shi, Guangxi University
- 16:02 Adaptive e-BH for Aggregating
Evidence across Multiple Experiments
Han Su, Beijing Normal University
- 16:18 大模型视角下稀疏正交化建模对模型选择算
法的影响
Huiyi Xia, Nanfang College Guangzhou
- 16:34 气候变暖背景下降水相态演变引起的不对
称情绪反应——基于 LLM 和机器学习分析
社交媒体数据的证据
Junming Li, Shanxi University of
Finance and Economics
- 16:50 New Double Generalized Logit Models
for Item Response and Response Time
Data
Fang Liu, Northeast Normal University

Contributed Session CS49: Interdisciplinary Data Science for Society and Nature

Venue: Yangming Conference Room, 3rd Floor,
Duocai Hotel
Chair: Lianghong Yuan

- 15:30 数字金融对农民返乡创业意愿的影响研究
Xinpo Tian, Guizhou University of
Finance and Economics
- 15:46 数字文旅发展对居民消费结构升级的影
响研究
Fangling Lu, Guizhou University of
Finance and Economics
- 16:02 笙歌引客，苗韵兴商——雷山苗年文化认知
与传承发展调查及对策研究
Jian Ding, Guizhou University of
Finance and Economics
- 16:18 技能偏向型技术进步视角下数字技术对农
户收入的影响研究
Xianjun Gou, Guizhou University of
Finance and Economics
- 16:34 基于随机森林的化学物质对水质影响分析
Qing Hu, Guizhou University of Finance
and Economics
- 16:50 Energy-Stable EIEQ Time Discretization
for the PFC-FCC Model: Convergence
Analysis and Applications to Crystal
Growth
Lianghong Yuan, Guizhou University of
Finance and Economics

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