

Time	Event	Venue
08:00 - 17:00	Registration <i>(Refreshment will be provided)</i>	Foyer, Shaw Auditorium (08:00 - 13:00) Outside LT-A (13:00 - 17:00)
08:30 - 08:40	Welcome & Opening Ceremony	Main Hall, Shaw Auditorium
08:40 - 10:10	<b>Keynote Speech (1)</b> Prof. Shane G. Henderson Cornell University	
10:10 - 10:30	Refreshment Break & Networking	Foyer, Shaw Auditorium
10:30 - 12:00	<b>Keynote Speech (2)</b> Prof. Ming Hu University of Toronto	Main Hall, Shaw Auditorium
12:00 - 12:15	<b>Group Photo Taking</b>	
12:15 - 14:00	Lunch	G/F Chinese Restaurant 南北小廚
14:00 - 15:20	<b>Best Student Paper Session I</b>	Rm 1104 (Near LT-A)
	<b>Parallel Session (A)</b>	Classrooms in Academic Building (2/F, near Lift 19)
15:20 - 15:40	Refreshment Break & Networking	Academic Concourse outside LT-A/B
15:40 - 17:00	<b>Best Student Paper Session II</b>	Rm 1104 (Near LT-A)
	<b>Parallel Session (B)</b>	Classrooms in Academic Building (2/F, near Lift 19)
17:45	Shuttle Bus from <b>HKUST Piazza</b> to <b>Banquet Venue</b>	
18:45 - 21:45	Banquet at <b>WM Hotel</b> Address: 28 Wai Man Road, Sai Kung, New Territories, H.K.	
21:45	Shuttle Bus from Banquet Venue to HKUST / Tseung Kwan O MTR Station	

Time	Event	Venue
08:00 - 17:00	Registration <i>(Refreshment will be provided)</i>	Foyer, Shaw Auditorium (08:00 - 13:00) Outside LT-A (13:00 - 17:00)
08:30 - 10:00	<b>Keynote Speech (3)</b> <b>Prof. Peng Sun</b> <b>Duke University</b>	Main Hall, Shaw Auditorium
10:00 - 10:30	Refreshment Break & Networking	Foyer, Shaw Auditorium
10:30 - 12:00	<b>Keynote Speech (4)</b> <b>Prof. Assaf Zeevi</b> <b>Columbia University</b>	Main Hall, Shaw Auditorium
12:00 - 13:30	Lunch	G/F Chinese Restaurant 南北小廚
13:30 - 14:50	<b>Parallel Session (C)</b>	Classrooms in Academic Building (2/F, near Lift 19)
14:50 - 15:10	Refreshment Break & Networking	Academic Concourse outside LT-A/B
15:10 - 16:30	<b>Parallel Session (D)</b>	Classrooms in Academic Building (2/F, near Lift 19)
16:30 - 16:50	Refreshment Break & Networking	Academic Concourse outside LT-A/B
16:50 - 18:10	<b>Parallel Session (E)</b>	Classrooms in Academic Building (2/F, near Lift 19)

Day 1		
Room No.	14:00 - 15:20 Parallel Session (A)	15:40 - 17:00 Parallel Session (B)
2126D	A1 - Data-Driven Robust Optimization and Its Applications	B1 - Data-Driven Research on Emerging Topics
2126A	A2- Operations and Decision Analytics	B2 - Data-Driven Operations Management
2126B	A3 - Analytics and Operations Management	B3 - Frontiers in Data-Driven Decision-Making Algorithms
2126C	A4 - Prescriptive Analytics in Socially Responsible Operations	B4 - Machine Learning Methods in Supply Chain Management
2127A	A5 - Frontiers of Analytics with Applications	B5 - Learning with Humans in the Loop
2127B	A6 - Recent Development in Stochastic Simulation	B6 - Inventory Management and Pricing Analytics
2127C	A7 - Robust Choice Model and Pricing	B7 - Data-Driven Methods for Revenue and Supply Chain Management
2128A	A8 - Modern Optimization Algorithm	B8 - Competition and Operations Innovation
2128B	A9 - New Challenges and Opportunities in the Digital Era and Platform Economic	B9 - Learning Algorithms for Inventory and Revenue Management
2128C	A10 - Management of Online Platforms	B10 - Emerging Topics in Digital Business
2129A	A11 - Emerging Topics on Online Resource Allocation	B11 - Influencer and Live-Stream Marketing
2129B	A12 - Interface of OM and Marketing: Consumer Behaviour and Pricing	B12 - Interface between Operations and Marketing
2129C	A13 - Stochastic Processes and Their Applications	B13 - On-Demand Service Platforms
2130A	A14 - Emerging Topics in Service Operations Management	B14 - Retailing and Service Operations Management

Day 1 (Cont.)		
Room No.	14:00 - 15:20 Parallel Session (A)	15:40 - 17:00 Parallel Session (B)
2130B	A15 - Empirical Studies in Operations Management	B15 - Manufacturing and Production OM
2130C	A16 - Simulation Optimization and Learning	B16 - Stochastic Simulation in Complex Systems
2131A	A17 - Supply Chain Management under Platform Economy	B17 - Information Sharing and Design in Supply Chains
2131B	A18 - Contract and Information Design in Operations Management	B18 - Emerging Trends in Operations: Optimal Design and Policies
2131C	A19 - Online Healthcare Platforms and Systems	B19 - Empirical Studies in Healthcare Operations
2132A	A20 - Sustainable Operations Management	B20 - Socially Responsible, Green, and Analytics-Driven Operations
2132B	A21 - Decision Making in Sustainable Operation	B21 - Information Disclosure on Sustainable Operations
2132C	A22 - Addressing Behavioural Problems in Operations Management	B22 - Topics in Behavioral Operations

# Parallel Session Programme / January 6 / 2024

Day 2			
Room No.	13:30 - 14:50 Parallel Session (C)	15:10 - 16:30 Parallel Session (D)	16:50 - 18:10 Parallel Session (E)
2126D	C1 - Emerging Topics of Decision-Making in Operations Management	D1 - Data-Driven Operations Management	E1 - Machine Learning and Operations Management
2126A	C2 - Data Driven Operations Management	D2 - Distributionally Robust Optimization and Its Applications	E2 - Advanced Topics in Robust Optimization
2126B	C3 - Sequential Learning Problems in Operations Management	D3 - Empirical Research on Retail Operations	E3 - Recent Developments in Decision Analytics
2126C	C4 - Empirical Operations Management	D4 - Empirical Research in Operations Management	E4 - Business Analytics and Operations
2127A	C5 - Advancing Operations: Innovations in Sequential Decision Making	D5 - Emerging Topics in Operations Management	E5 - Data Driven Supply Chain Management
2127B	C6 - Theory and Applications of Revenue Management	D6 - Platform Operations and Pricing Strategies	E6 - Assortment Optimization
2127C	C7 - Emerging Challenges in Pricing	D7 - New Frontiers in Revenue Management	E7 - Content and Advertising Management
2128A	C8 - Operations Management	D8 - Innovation OM	E8 - Supply Chain Analytics
2128B	C9 - Fairness in Operations Management	D9 - Consumer Privacy and Trust in E-Commerce	E9 - Advanced Topic in Revenue Management
2128C	C10 - New Topics in E-Commerce Platforms and Supply Chain	D10 - Reviews, Rebates, and Recommendations in E-Commerce	E10 - Fintech and Blockchain
2129A	C11 - OM-Marketing Interface	D11 - Operations-Marketing Interface	E11 - Operations Management Under Competition
2129B	C12 - Data Analysis in Quantitative Finance	D12 - Algorithmic Methods in OM- Finance Interface	E12 - Policy Development in OM- Finance Interface
2129C	C13 - Service Operations	D13 - Recent Topics in Service Operations	E13 - Operational Transparency and Visibility

# Parallel Session Programme / January 6 / 2024

Day 2 (Cont.)			
Room No.	13:30 - 14:50 Parallel Session (C)	15:10 - 16:30 Parallel Session (D)	16:50 - 18:10 Parallel Session (E)
2130A	C14 - Information and Behaviors in Service Operations	D14 - On-Demand Services and Platforms	E14 - Recent Advances in Service Operations
2130B	C15 - Supply Contracting and Channel Coordination	D15 - Game-Theoretic Models in Operations Management	E15 - Scheduling and Design in Operations Management
2130C	C16 - Optimization in Transportation and Delivery	D16 - Drones and Urban Air Mobility	E16 - Vehicle Routing Problems
2131A	C17 - Supply Chain Risk Management	D17 - Resource Planning in Healthcare Operations	E17 - Humanitarian and Crisis Management
2131B	C18 - Optimization Models for Service Systems	D18 - New Topics in Healthcare Operations Management	E18 - Healthcare Information Systems and Provision
2131C	C19 - Incentive Structures and Behavioral Effects in Healthcare Operations	D19 - Advances in Healthcare Operations	E19 - Decision-Making in Healthcare Operations
2132A	C20 - Theoretical and Empirical Studies on Sustainable Operations	D20 - Integrated and Data-Driven Energy Systems	E20 - Sustainable Operations
2132B	C21 - Sustainability and Sharing Economy	D21 - On-Demand Delivery Platform	E21 - Behavioural Bias in Operations Management
2132C	C22 - Emerging Topics in Supply Chain Management I	D22 - Emerging Topics in Supply Chain Management II	E22 - Emerging Topics in Supply Chain Management III

# Best Student Paper Session

January 5 Room 1104

## Session 1 (14:00 – 15:20)

Chair: Xiangtong Qi, Xuan Wang

Title	Author
The (Surprising) Sample Optimality of Greedy Procedures for Large-Scale Ranking and Selection	<u>Zaile Li</u> , L. Jeff Hong, Weiwei Fan
Managing Perishable Inventory Systems with Positive Lead Times: Inventory Position vs. Projected Inventory Level	<u>Huanyu Yin</u> , Jinzhi Bu, Xiting Gong
Taylor Approximation of Inventory Policies for One-Warehouse, Multi-Retailer Systems with Demand Feature Information	<u>Jingkai Huang</u> , Kevin Shang, Yi Yang, Weihua Zhou, Yuan Li
Stochastic Multi-armed Bandits: Optimal Trade-off among Optimality, Consistency, and Tail Risk	<u>Feng Zhu</u> , David Simchi-Levi, Zeyu Zheng

## Session 2 (15:40 – 17:00)

Chair: Xiangtong Qi, Xuan Wang

Title	Author
Treatment Planning of Victims with Heterogeneous Time-Sensitivities in Mass Casualty Incidents	<u>Yunting Shi</u> , Nan Liu, Guohua Wan
On the Design of Consistent and Fair Allocation Policies for Resource Pooling Systems	<u>Piao Hu</u> , Guodong Lyu, Chung-Piaw Teo
Multi-armed Bandit Experimental Design: Online Decision-Making and Adaptive Inference	<u>Chonghuan Wang</u> , David Simchi-Levi
When to Push Ads: Optimal Mobile Ad Campaign Strategy under Markov Customer Dynamics	<u>Guokai Li</u> , Pin Gao, Zizhuo Wang

# Parallel Session A

January 5 14:00 – 15:20

## Session A1 (Room 2126D)

Topic: **Data-Driven Robust Optimization and Its Applications**

Chair: **Qinshen Tang**

Title	Author
Robust Optimization with Moment-Dispersion Ambiguity	<u>Li Chen</u> , Chenyi Fu, Fan Si, Melvyn Sim, Peng Xiong
A Robust Satisficing Multi-Objective Optimization Approach for Bike-Sharing Systems with Heterogeneous User Types	<u>Qingxin Chen</u> , Shoufeng Ma, Chenyi Fu, Ning Zhu, Qiao-Chu He
Data-Driven Pricing Analytics: A Perspective on the Bias and Variance Tradeoff	<u>Xun Zhang</u> , Ying Rong, Huan Zheng
The Analytics of Robust Satisficing: Predict, Optimize, Satisfice, then Fortify	<u>Qinshen Tang</u> , Melvyn Sim, Minglong Zhou, Taozeng Zhu

## Session A2 (Room 2126A)

Topic: **Operations and Decision Analytics**

Chair: **Shining Wu**

Title	Author
Bridging Adversarial and Nonstationary Multi-Armed Bandit	<u>Hailun Zhang</u> , Ningyuan Chen, Shuoguang Yang
Data-Driven Robust Network Revenue Management	<u>Tao Zhang</u> , Miao Song
Learning-Based Scheduling Rules for Multi-Class, Multi-Server Pools Queues	<u>Zhihao Li</u> , Jiheng Zhang, Rachel Q. Zhang, Shining Wu
Learning to Simulate: Generative Metamodeling via Quantile Regression	<u>Qingkai Zhang</u> , L. Jeff Hong, Yanxi Hou, Xiaowei Zhang



### Session A3 (Room 2126B)

Topic: **Analytics and Operations Management**

Chair: **Liang (Leon) Xu**

Title	Author
Data-Driven Shelf-Stock Allocation	<u>Jia Zhao</u> , Shuming Wang
Appointment Scheduling with Same-Day Patient Re-Entrance	<u>Haolin Feng</u> , Michelle Alvarado, Sailesh Konda, Mark Lawley
Proactive Policing: A Resource Allocation Model for Crime Prevention with Deterrence Effect	<u>Yue Zhao</u> , Long He, Xiaobo Li
Auto-Replenishment with Human Oversight: Evidence from a Field Experiment	<u>Liang (Leon) Xu</u> , Shuming Wang, Meng Li

### Session A4 (Room 2126C)

Topic: **Prescriptive Analytics in Socially Responsible Operations**

Chair: **Guodong Lyu**

Title	Author
Design for Human-Machine Complementarity: SKU Rationalization in Food Bank	<u>Hailong Sun</u> , Mabel Chou, Victor Fernandes, Peng Liu, Chung-Piaw Teo, Lu Zhou
Cost-Effectiveness of a Network of Lethal Ovitrap for the Prevention and Control of Dengue Fever	<u>Yvonne Huijun Zhu</u> , Joel Goh, Joel Aik, Shuzhen Sim
Process Flexibility: A Distribution-Free Approach to Long Chain Resilience	<u>Qinghe Sun</u> , Li Chen, Mabel Chou
Closed-Form Robust Base-Stock Policy for Independent Demands	<u>Sheng Bi</u> , Songchen Jiang, Zhaolin Li, Chung-Piaw Teo, Min Huang

## Session A5 (Room 2127A)

Topic: **Frontiers of Analytics with Applications**

Chair: **Philip Renyu Zhang, Puping Jiang**

Title	Author
Gig or Employee? Platform's Joint Staffing and Pricing Decisions Under Hybrid Labor Mode	<u>Xuyan Xin</u> , Jiayi Yu, Tianjun Feng
Discount Signalling When Customers Search	<u>Yi Chen</u> , Jing Dong, Fanyin Zheng
Unintended Impact of Initial Prescribing in Hypnotics Abuse	<u>Manqi Li</u> , Xiang (Charlie) Cheng, Yan Huang
When A Platform Competes with Third-Party Sellers in Networked Markets: A Revenue Management Perspective	<u>Hongfan (Kevin) Chen</u> , Hai Wang

## Session A6 (Room 2127B)

Topic: **Recent Development in Stochastic Simulation**

Chair: **Guo Liang**

Title	Author
First-Stage Sampling in Ranking and Selection: Beyond Variance Estimation	<u>Xuewen Li</u> , Weiwei Fan, Jun Luo, Shing Chih Tsai
A Unified Framework for Nested Estimation Based on Smoothing Approaches	<u>Nifei Lin</u> , Yingda Song, L. Jeff Hong
A Double Sample-Recycling Approach to Finite Difference Method	<u>Guo Liang</u> , Guangwu Liu, Kun Zhang

## Session A7 (Room 2127C)

Topic: **Robust Choice Model and Pricing**

Chair: **Zhi Chen**

Title	Author
Discrete Choice Models with Ambiguity Aversion: Product Line Pricing and Competition	<u>Qi Cheng</u> , Jingwen Lin, Yimin Yu
Mitigating Misspecification for Approximate Incentive-Compatible Pricing	<u>Feng Liu</u> , Zhi Chen, Shuming Wang
Learning Mixed Multinomial Logits with Provable Guarantees and its Applications in Multi-Product Pricing	<u>Limeng Liu</u> , Yiqun Hu, David Simchi-Levi, Zhenzhen Yan
Randomized Assortment Optimization	<u>Zhengchao Wang</u> , Heikki Peura, Wolfram Wiesemann

## Session A8 (Room 2128A)

Topic: **Modern Optimization Algorithm**

Chair: **Mingyang Fu**

Title	Author
Efficient Importance Scenario Generation for Optimization with Rare Events	<u>Anand Deo</u> , Karthyek Murthy
The Circular Balancing Problem	<u>Michael Pinedo</u> , Myungho Lee, Kangbok Lee
Models and Algorithms for Cluster-Plus-Optimization	<u>Keliang Wang</u> , Leonardo Lozano, Mohsen Emadikhiav, David Bergman
Fourth-Order Marginal Moment Model: Reformulations and Applications	<u>Mingyang Fu</u> , Xiaobo Li

## Session A9 (Room 2128B)

Topic: **New Challenges and Opportunities in the Digital Era and Platform Economic**

Chair: **Weihua Liu, Yongtong Chen**

Title	Author
Competition between Two-Sided Logistics Platforms: Technology Investment in Service Providers	<u>Shangsong Long</u> , Weihua Liu, Tsan-Ming Choi, Chuanwen Dong
Research on the Allocation of Carpooling Orders in Online Car-Hailing Platforms	<u>Qian Qiu</u> , Rui Yan, Yuwen Chen, Baolong Liu, Yimiao Ni, Qiang Guo
Data-driven Optimal Deployment and Scheduling of Highway Emergency Rescue Resources	<u>Shuzhu Zhang</u> , Zhiyu Lu, Feng Qi
Research on the Development Path of Government Public Data Open Platform from the Perspective of Data Asset	<u>Yongtong Chen</u> , Wanqiang Wang, Huiyao Pan, Yuao Zhou
Sustainable Supplier/Product Selection with Overlapping Criteria by Using CNLS Approaches	<u>William Chung</u> , Yong-Tong Chen

## Session A10 (Room 2128C)

Topic: **Management of Online Platforms**

Chair: **Jingqi Wang**

Title	Author
Reducing Traffic Incidents in Meal Deliveries: Penalize the Platform or its Independent Drivers?	<u>Liu Ming</u> , Yue Cheng, Wenchang Zhang, Christopher Tang
Navigating Live-Streaming Commerce: A Tale of Two Strategies – Price Discounts and Short Videos	<u>Yue Cheng</u> , Chewei Liu, Wenchang Zhang
Operating Three-sided Marketplace: Pricing, Spatial Staffing and Routing in Food Delivery Systems	<u>Yiwen Shen</u> , Zhe Liu, Yanwei Sun
The Impact of Hospitals' Annual Award Display on Patient Consultations: Evidence from a Natural Experiment	<u>Jingqi Wang</u> , Hao Wang, Yangzi Jiang

### Session A11 (Room 2129A)

Topic: **Emerging Topics on Online Resource Allocation**

Chair: **Zhenzhen Yan**

Title	Author
Adaptive Neyman Allocation	<u>Jinglong Zhao</u>
Online Reusable Resource Assortment Planning with Customer-Dependent Usage Durations	<u>Tianming Huo</u> , Wang Chi Cheung
Sample-Based Online Generalized Assignment Problem with Unknown Poisson Arrivals	<u>Zihao Li</u> , Hao Wang, Zhenzhen Yan
Constant Approximation for Network Revenue Management with Markovian Correlated Customer Arrivals	<u>Jiashuo Jiang</u>

### Session A12 (Room 2129B)

Topic: **Interface of OM and Marketing: Consumer Behaviour and Pricing**

Chair: **Yue Dai**

Title	Author
Dynamic Pricing and Service Fulfillment of Mobile Charging Systems with Stochastic Demands	<u>Jie Yang</u> , Fang He, Zuo-Jun Max Shen, Xi Lin
Information Sharing and Personalized Pricing in Online Platforms	<u>Guo Li</u> , Yihong Hu, Mengqi Liu, Shengnan Qu
Does Cost Increment Hurt the Supply Chain Members Facing the Consumer Fairness Concerns?	<u>Yuwen Du</u> , Bin Dai, Yue Dai
Unifying or Discriminating: Competitive Pricing Strategies for Multi-Channel Retailers	<u>Yue Dai</u> , Kun Zhang, Gangshu (George) Cai

### Session A13 (Room 2129C)

Topic: **Stochastic Processes and Their Applications**

Chair: **Junfei Huang**

Title	Author
Staffing Multi-Server Queue with Hawkes Arrivals	<u>Kang Gong</u> , Xinyun Chen
Chance Constrained Program with Quadratic Randomness: A Unified Approach Based on Gaussian Mixture Distribution	<u>Zhaolin Hu</u> , Xiaochuan Pang, Shushang Zhu
The Generalized $c/\mu$ Rule for Queues with Heterogeneous Server Pools	<u>Zhenghua Long</u> , Hailun Zhang, Jiheng Zhang, Zhe George Zhang
Maintaining Work-Life Balance while Completing a Task: A Stochastic Modelling Framework	<u>Zhengli Wang</u> , T. Li, J. Li

### Session A14 (Room 2130A)

Topic: **Emerging Topics in Service Operations Management**

Chair: **Lijun Ma, Lianmin Zhang**

Title	Author
The Value of Freedom-of-Pricing Strategy on Combating Deceptive Counterfeits under Dual-Channel	<u>Chaonan Zheng</u> , Jing Chen, Hang Wei, Lei Xie
Assortment Problem under MNL Choice Model	<u>Yajun Xiao</u> , Kameng Nip, Lianmin Zhang
Alliance Formation in a Coproduct Supply Chain	<u>Yangyang Peng</u> , Xiaoqiang Cai, Xiaolin Xu, Lianmin Zhang, Xin Wang
Pricing and Quality Decisions for Standardized and Collaborative Services in a Home Health Care Service Platform	<u>Meiyan Lin</u> , Lijun Ma, Fanjie Yang, Weili Xue

### Session A15 (Room 2130B)

Topic: **Empirical Studies in Operations Management**

Chair: **Zhenyang Shi**

Title	Author
Service Upgrade, Shopper Update: Implications of Adopting Third-Party Grocery Delivery on Inventory Management	<u>Jinjia Huang</u> , Stanley Frederick W. T. Lim, M. Serkan Akturk
The Impact of Collaboration Network Characteristics on High-Level Scholars' Research Performance in the Field of Quantum Information Technology	<u>Baohuan Zhou</u> , Yundong Xie, Xiaoli Hu, Yaozong Zhu, Liang Liang
Evaluating Delivery Service Impact on Retailer Engagement in E-Commerce Co-Creation	<u>Yuxiao Liang</u>
The Spillover Effect of Cyberattacks Along Supply Chain	<u>Zhenyang Shi</u> , Wenhong Ding, Wei Guan

### Session A16 (Room 2130C)

Topic: **Simulation Optimization and Learning**

Chair: **Jun Luo, Weiwei Fan**

Title	Author
Steady-State Analysis and Online Learning for Queues with Hawkes Arrivals	<u>Xinyun Chen</u> , Guiyu Hong
A Tree-Based Continuous Simulation Optimization Procedure	<u>Jianzhong Du</u> , L. Jeff Hong, Ying Zhong
Reinforcement Learning Algorithm for Reusable Resource Allocation with Time-Varying Reward	<u>Ziwei Wang</u> , Jie Song, Jingtong Zhao, Yixuan Liu
Reference Alternatives Based Knockout-Tournament Procedure for Ranking and Selection	<u>Ying Zhong</u> , Jianzhong Du, Deng-Feng Li, Zhaolin Hu

### Session A17 (Room 2131A)

Topic: **Supply Chain Management under Platform Economy**

Chair: **Jianbin Li**

Title	Author
Monotone Comparative Statics with Non-Lattice Structures and its Applications	<u>Peng Hu</u>
Trade Credit and Bankruptcy Risk in Supply Chains: An Experimental Study	<u>Rihuan Huang</u> , Andrew M. Davis, Kyle Hyndman
The Value of Blockchain in a Pharmaceutical Supply Chain: Information Asymmetry and Capacity Constraint	<u>Xiangrong Song</u> , Jianbin Li, Zhilin Yang
Cooperative Mechanism Design for a Gig Platform with Opportunity Cost Time Sensitivity	<u>Zhiying Tao</u>

### Session A18 (Room 2131B)

Topic: **Contract and Information Design in Operations Management**

Chair: **Feng Tian**

Title	Author
Information Design for On-Demand Service Platform: A Queueing-Theoretic Approach	<u>Donghao Zhu</u> , Stefan Minner, Martin Bichler
Paying for Long-Term Hospital Care: Contract Design under Dynamic Information Asymmetry	<u>Wei Zhang</u> , Youhua (Frank) Chen, Sergei Savin
Will Spatial Pooling Solve Wild Goose Chase?	<u>Mingliu Chen</u> , Ming Hu
Information Design and Pay Mechanism in the Gig Economy	<u>Feng Tian</u> , Zhen Lian, Feifan Zhang



## Session A19 (Room 2131C)

Topic: **Online Healthcare Platforms and Systems**

Chair: **Yixuan Liu**

Title	Author
A Data-Driven Approach to Outpatient Appointment Scheduling with Heterogeneous Service Time	<u>Yiwu Jia</u> , Haolin Feng, Siyi Zhou, Hongyi Chen, Teng Huang
Foot in Both Camps: How Do Activities on Third-Party OHPs Affect Demand on Official OHPs?	<u>Heng Zhao</u> , Sijia Zhou
It is not for Advertising: The Impact of Medical Live Streaming on Online Medical Consultation	<u>Yixuan Liu</u> , Mike Kee-Hung Lai, Xiaofei Zhang, Yixin Lu

## Session A20 (Room 2132A)

Topic: **Sustainable Operations Management**

Chair: **Kai Pan**

Title	Author
Sustainable Operations of Energy-Intensive Productions with Onsite Renewables	<u>Neng Fan</u>
Data-Driven Chance-Constrained Planning for Distributed Generation: A Partial Sampling Approach	<u>Shiyi Jiang</u> , Jianqiang Cheng, Kai Pan, Feng Qiu, Boshi Yang
A Computational Study on Power System Operations with a Single Type of Binary Variables	<u>Bin Tian</u> , Kai Pan, Chung-Lun Li
Carbon Tax vs. Carbon Cap-and-Trade: Implementation of Carbon Border Tax in Cross-Regional Production	<u>Jiawen Hua</u> , Jun Lin, Kai Wang, Yanjun Qian

## Session A21 (Room 2132B)

Topic: **Decision Making in Sustainable Operation**

Chair: **Ruijiu Mao**

Title	Author
Information Disclosure for Perishables: Profit and Food Waste Implications	<u>Fan Zhou</u> , Ekaterina Astashkina, Ravi Anupindi
Data-Driven Demand Forecasting for Rush Repair Spare Parts of Power Equipment	<u>Minfang Huang</u> , Xiangpei Hu, Yanxin Wang
Regularized Convex Regression: a Data-Driven Method for Energy Regulation	<u>Zhiqiang Liao</u> , Sheng Dai, Eunji Lim, Timo Kuosmanen
From Curtailed Renewable Energy to Green Hydrogen: Infrastructure Planning for Hydrogen Fuel-Cell Vehicles	<u>Ruijiu Mao</u> , Long He, Nan Ke, Wei Qi, Hongcai Zhang

## Session A22 (Room 2132C)

Topic: **Addressing Behavioral Problems in Operations Management**

Chair: **Vivek Choudhary**

Title	Author
Don't Fake It If You Can't Make It: Driver Misconduct in Last Mile Delivery	<u>Srishti Arora</u> , Vivek Choudhary, Sameer Hasija
How Uncertainty Reshaped Patient-Doctor Gender Concordance	<u>Vivek Choudhary</u> , Xiaodan Shao, Anandasivam Gopal
Selling to Time-Inconsistent Consumers in the Presence of Secondary Market	<u>Chen Pang</u> , Li Jiang, Gang Li
Consumer Surplus and Seller Profitability: Constrained Assortment Optimization with Satisficers	<u>Mina M. Iravani</u> , Guillermo Gallego, Masoud Talebian

# Parallel Session B

January 5 15:40 – 17:00

## Session B1 (Room 2126D)

Topic: **Data-Driven Research on Emerging Topics**

Chair: **Sidika Tunc Candogan**

Title	Author
Crowd-Judging on Two-Sided Platforms: An Analysis of In-Group Bias	<u>S. Alex Yang</u> , Alan P. Kwan, Angela Huyue Zhang
Dynamic Pricing in the Airline Industry: Theory and Practice	<u>Hong Ming Tan</u> , Chung Khim Lae, Jussi Keppo, Bar Light
Unravelling the Implications of Driver Relocation in Food Delivery	<u>Srishti Arora</u> , Vivek Choudhary, Sameer Hasija
Product Development in Crowdfunding: Theoretical and Empirical Analysis	<u>Sidika Tunc Candogan</u> , Philipp B. Cornelius, Bilal Gokpinar, Ersin Körpeoğlu, Christopher S. Tang

## Session B2 (Room 2126A)

Topic: **Data-Driven Operations Management**

Chair: **Yi Chen**

Title	Author
Born to Wait? A Study on Allocation Rules in Booking Systems	<u>Tracy Xiao Liu</u> , Lingbo Huang, Jun Zhang
Design of Wait Time Interval in Virtual Queue	<u>Yiming Zhang</u> , Qiuping Yu, Yong-Pin Zhou
The Effect of Intellectual Protection Policies on Online Retail Platforms	<u>Shuo Zhang</u> , Xiang Hui, Meng Liu, Tat Chan, Tianjun Feng, Fuqiang Zhang
Learning While Repositioning in On- Demand Vehicle Sharing Networks	<u>Hansheng Jiang</u> , Shunan Jiang, Z.-J. Max Shen, Chunlin Sun

### Session B3 (Room 2126B)

Topic: **Frontiers in Data-Driven Decision-Making Algorithms**

Chair: **Xiaojie Mao**

Title	Author
A Bayesian Optimization Model for Locating Emergency Service Units	<u>Cheng Hua</u> , Arthur J. Swersey, Wenqian Xing
Data-Driven Asset Selling	<u>Puping Jiang</u> , Lingxiu Dong
Learning in Lost-Sales Inventory Systems with Stochastic Lead Times and Random Supplies	<u>Jiameng Lyu</u> , Xin Chen, Shilin Yuan, Yuan Zhou
Robust Actionable Prescriptive Analytics	<u>Minglong Zhou</u> , Li Chen, Melvyn Sim, Xun Zhang

### Session B4 (Room 2126C)

Topic: **Machine Learning Methods in Supply Chain Management**

Chair: **Shilin Yuan**

Title	Author
Managing Third-Party Risks in Supply Chain Data Security: The Differentially Private Newsvendor	<u>Du Chen</u> , A. Geoffrey Chua
Deep Reinforcement Learning for an Inventory Problem with an All-or-Nothing Yield Pattern and Leadtimes	<u>Yuting Yan</u> , Wenjie Bi, Youhua (Frank) Chen, Zhe Fu
Data-Driven Reliable Facility Location Design	<u>Hao Shen</u> , Mengying Xue, Zuo-Jun Max Shen
A Minibatch-SGD-Based Learning Meta-Policy for Inventory Systems with Myopic Optimal Policy	<u>Shilin Yuan</u> , Jiameng Lyu, Jinxing Xie, Yuan Zhou

## Session B5 (Room 2127A)

Topic: **Learning with Humans in the Loop**

Chair: **Yifan Feng**

Title	Author
The Wisdom of Strategically Diverse Crowds	<u>Jussi Keppo</u> , Yanwei Jia, Ville Satopaa
Understanding Labor Supply in Gig Economy: Evidence from a Logistics Platform	<u>Sixing Hu</u> , Jussi Keppo, Yifan Feng, Wu Hao
Myopic Quantal Choice: Thompson Sampling Meets Behavioral Economics	<u>Ying Rong</u> , Jingying Ding, Yifan Feng
Simple Algorithms for Learning to Select and Rank from Choice-based Feedback	<u>Yifan Feng</u> , Junwen Yang

## Session B6 (Room 2127B)

Topic: **Inventory Management and Pricing Analytics**

Chair: **Jinzhi Bu**

Title	Author
Approximation Algorithms for Lost-Sales Inventory Systems with Remanufacturing	<u>Suting Liu</u> , Xiting Gong
Pricing Analytics with Shape-Restricted Demands	<u>Jingren Liu</u> , Hanzhang Qin, Mabel C. Chou
Dynamic Resource Allocation with Proactive Upgrades: The Value and Design of Fulfillment Flexibility	<u>Zheng Cui</u> , Lijian Lu, Daniel Zhuoyu Long
Waste Reduction of Perishable Products through Markdowns at Expiry Dates	<u>Jinglong Zhao</u> , Arnoud V. den Boer, Hermanus M. Jansen

### Session B7 (Room 2127C)

Topic: **Data-Driven Methods for Revenue and Supply Chain Management**

Chair: **Hanzhang Qin**

Title	Author
Robust Mechanism Design under Nonlinear Utility	<u>Zhen Wang</u> , Yicheng Liu, Pin Gao, Shixin Wang, Zizhuo Wang
Pigeonhole Design: Balancing Sequential Experiments from an Online Matching Perspective	<u>Jinglong Zhao</u> , Zijie Zhou
Myopic Policies for Periodic-Review Inventory System with Demand Covariates	<u>Jingkai Huang</u> , Kevin Shang, Yi Yang, Weihua Zhou
Feature Based Dynamic Matching	<u>Yilun Chen</u>

### Session B8 (Room 2128A)

Topic: **Competition and Operations Innovation**

Chair: **Lin Tian**

Title	Author
Information Sharing and Manufacturer Rebate Competition	<u>Yunjie Wang</u> , Albert Y. Ha, Weixin Shang
Upward Decentralization and Diagonal Partial Ownership: A Win-Win Outcome for Competition	<u>Yingchen Yan</u> , Jiong Sun
Agri-Tech Products: Firm Strategy, Farmer Competition, and Government Subsidy	<u>Xiao Tan</u> , Duo Shi, Fuqiang Zhang
Advertising Format and Content Provision on Revenue-Sharing Content Platforms	<u>Yuansheng Wei</u> , Lin Tian, Baojun Jiang

## Session B9 (Room 2128B)

Topic: **Learning Algorithms for Inventory and Revenue Management**

Chair: **Xuefeng Gao**

Title	Author
Online Learning with Sample Average Approximation for a Multiechelon Inventory System with Expediting	<u>Yufei Zhao</u> , Xiangyu Gao
Sampling-Based Approximation for Series Inventory Systems	<u>Sean Zhou</u> , Kairen Zhang, Zhanyue Wang, Xiangyu Gao
Reinforcement Learning for Intensity Control: An Application to Choice-Based Network Revenue Management	<u>Huiling Meng</u> , Xuefeng Gao, Ningyuan Chen
Dynamic Pricing and Learning Under the Effect of Inventory Scarcity	<u>Mengyan Zhu</u> , Qingwei Jin

## Session B10 (Room 2128C)

Topic: **Emerging Topics in Digital Business**

Chair: **Xin Fang**

Title	Author
Unlocking the Power of Joining a Virtual Team: The Heterogeneous Impacts of Team Signaling in Telehealth	<u>Shiyi Wang</u> , Jack Tong, John Dong
Managing The Personalized Order-Holding Problem in Online Retailing	<u>Yun Fong Lim</u> , Shouchang Chen, Zhenzhen Yan
Return or Not? Joint Pricing and Refund Optimization for Omni-Channel Retailing	<u>Zhenzhen Yan</u> , Shouchang Chen, Yimeng Sun, Yun Fong Lim
Partnerships Between Taxis and On-Demand Ride-Hailing Platforms: A Regulatory Perspective	<u>Xin Fang</u> , Liling Lu, Guiyun Feng, Sergei Savin

## Session B11 (Room 2129A)

Topic: **Influencer and Live-Stream Marketing**

Chair: **Qianqian Chen**

Title	Author
The Strategies for E-Retailer on Resorting to KOL Live Streaming Channel	<u>Yue Chen</u> , Wang Yong, Duan Yu-Lan, Zheng Jing
Pricing and Channel Selection Strategies in E-Commerce Supply Chain with Hybrid Channels and Live Streaming	<u>Jie Zhang</u> , Xin Zhang
A Bargaining Framework for Analyzing the Economic Value of Online Celebrity	<u>Qianqian Chen</u> , Shouchang Chen, Lin Liu, Yi Yang
Introducing New Products via Social Media Influencers	<u>Liping Liang</u> , Zhenhao Li

## Session B12 (Room 2129B)

Topic: **Interface between Operations and Marketing**

Chair: **Quan Zheng**

Title	Author
Impact of Government Subsidy and Consumer Heterogeneity on the Green Product Design	<u>Lingyun Chen</u> , Xiaomeng Guo, Dan Tan, Guang Xiao
Channel Returns and Contract Unobservability	<u>Tao Tao</u> , Quan Zheng, Honggang Hu
The Impact of Opt-Out Rights on Content Platforms	<u>Xuanqi Chen</u> , Gang Li, Yulan Wang
AI Interviews and Strategic Applicants	<u>Chaochao Huang</u> , Quan Zheng



## Session B13 (Room 2129C)

Topic: **On-Demand Service Platforms**

Chair: **Yang Bo**

Title	Author
M/M/s On Demand: Queues with On-Demand and Reserved Servers	<u>Zhichao Feng</u> , Milind Dawande, Ganesh Janakiraman, Anyan Qi
Waiting Matters: The Impact of Restaurant Wait Times on Food Delivery Performance	<u>Xiaotian Kang</u> , Yiming Zhang, Jingqi Wang, Qin Zhou, Haipeng Shen
Operating Three-Sided Marketplace: Pricing and Spatial Staffing in Food Delivery Systems	<u>Yiwen Shen</u> , Zhe Liu, Yanwei Sun
Human in The Loop Automation: Ride-Hailing with Remote (Tele-) Drivers	<u>Xiaotang Yang</u> , Saif Benjaafar, Zicheng Wang

## Session B14 (Room 2130A)

Topic: **Retailing and Service Operations Management**

Chair: **Rowan Wang, Baolong Liu**

Title	Author
Coopetition in Omnichannel Operations	<u>Zhenyang Shi</u> , Lin Liu, Yi Yang, Ziyang Zhang, Quan Yuan
Scheduling of Firm-Initiated Field Appointments with Customer Choice	<u>Yanlu Zhao</u> , Felix Papier
Flash Sales versus Traditional Sales: Price Optimization for an Online Retailer with Pre-planned Logistics	<u>Ruijie Zhang</u> , Yun Fong Lim, Zhenzhen Yan, Xiande Zhao
In-queue Queueing: Gaining Utility through Ancillary Service while Waiting	<u>Baolong Liu</u> , Yang Li, Rowan Wang
Managing Truck Driver Performance in Logistics Networks	<u>Xingliao Wan</u> , Yiming Zhang, Ye Shi

### Session B15 (Room 2130B)

Topic: **Manufacturing and Production OM**

Chair: **Xiting Gong**

Title	Author
Optimal Policies for a Stochastic Periodic-Review Inventory System with Free Shipping Option	<u>Shiyu Song</u> , Hongqiao Chen, Houcai Shen
Online Learning for Multi-Product Production Planning with Emissions Trading	<u>Ziyan Zhou</u> , Tong Wang, Jingwei Zhang
Learning to Order for Inventory Systems with Lost Sales and Uncertain Supplies	<u>Jiashuo Jiang</u> , Boxiao Chen, Jiawei Zhang, Zhengyuan Zhou
Inventory Control Involving Opaque Selling	<u>Yuan Qu</u> , Jian Yang

### Session B16 (Room 2130C)

Topic: **Stochastic Simulation in Complex Systems**

Chair: **Jun Luo, Kun Zhang**

Title	Author
High-Dimensional Simulation Optimization via Brownian Fields and Sparse Grids	<u>Liang Ding</u> , Xiaowei Zhang
Over-Conservativeness of Variance-Based Efficiency Criteria and Probabilistic Efficiency in Rare-Event Simulation	<u>Zhiyuan Huang</u> , Yuanlu Bai, Henry Lam, Ding Zhao
Smooth Nested Simulation: Bridging Cubic and Square Root Convergence Rates in High Dimensions	<u>Wenjia Wang</u> , Yanyuan Wang, Xiaowei Zhang
Efficient Risk Quantification via a Nested Simulation Method	<u>Kun Zhang</u> , Guo Liang, Jun Luo

## Session B17 (Room 2131A)

Topic: **Information Sharing and Design in Supply Chains**

Chair: **Yihong Hu**

Title	Author
Information Sharing, Information Quality and Competition in a Dual-Sourcing Supply Chain	<u>Jizhou Lu</u>
Entry and Competition Strategy in a Neighborhood Fresh Product Retailing Market	<u>Qiuxia Chen</u> , Xuelian Qin, Zhixue Liu
Competition in the Quality Award and Cooperation in the Product Quality in the Supply Chain: A Double-edged Sword for Product Quality Improvement	<u>Zizhuo Wang</u> , Xin Fang, Ying-Ju Chen, Mingzheng Wang
Information Sharing and Personalized Pricing in Online Platforms	<u>Yihong Hu</u> , Guo Li, Mengqi Liu, Shengnan Qu

## Session B18 (Room 2131B)

Topic: **Emerging Trends in Operations: Optimal Design and Policies**

Chair: **Yong-Hong Kuo**

Title	Author
Dynamic Inventory Control with Covariates: Regularization and Time Inconsistency	<u>Shaochong Lin</u> , Frank Chen, Yanzhi Li, Max Shen
Operating Policies for Robotic Cellular Warehousing Systems	<u>Benedict Jun Ma</u> , Yong-Hong Kuo, Shenle Pan, George Q. Huang
Price Competition and Contract Design on Third-party Online Healthcare Platform and Offline Hospital under Information Asymmetry	<u>Fangyuan Cao</u> , Jie Wang, Yong-Hong Kuo, Feng Tian
A Choice-Based Recommendation Model with Sequential Choice Behavior	<u>Chenbin Luo</u> , Weili Xue
Deceptive Online Reviews in Competitive Markets: The Blockchain Solution and its Implications	<u>Boru Li</u> , Jie Wang, Yong-Hong Kuo

## Session B19 (Room 2131C)

Topic: **Empirical Studies in Healthcare Operations**

Chair: **Yini Gao**

Title	Author
Rethinking Appointment Scheduling: Addressing Counsellor Burnout and Improving Patient Outcomes	<u>Yuchen Liang</u> , Sarah Yini Gao, Kejia Hu, Chung-Piaw Teo
Screening Process Information Matters More Than Clinical Information: A Randomized Controlled Trial of Information Sharing on Cancer Screening Decision	<u>Xiaodong Wang</u> , Yongjian Zhu, Sarah Yini Gao, Zhichao Zheng
Small Area Estimation of Case Growths for Timely Covid-19 Outbreak Detection	<u>Zhaowei She</u> , Zilong Wang, Jagpreet Chhatwal, Turgay Ayer
The Impact of Online Service Channels on Visit Demand and Sojourn Time	<u>Heng Zhao</u> , Chunyang Tong

## Session B20 (Room 2132A)

Topic: **Socially Responsible, Green, and Analytics-Driven Operations**

Chair: **Wei Zhang**

Title	Author
Mitigating Negative Externalities in Urban Services: Evidence from the Bike-Sharing Industry	<u>Weiming Zhu</u> , Victor Martínez-de-Albéniz, Qihang Yang, Jianfeng Lin, Zhaochen Dong, Jinglong Dai
Fee-for-Battery or Fee-for-Mile? An Equilibrium Analysis of a Battery Swapping Station	<u>Tianyi Zhao</u> , Na Li, Zhankun Sun, Wei Zhang
A-B Testing with Strategic Agents	<u>Guoxing He</u> , Wei Zhang
Reducing Food Waste in Delivery Channels: Should We Regulate the Pricing Scheme?	<u>Wei Zhang</u> , Yuyang Ou

## Session B21 (Room 2132B)

Topic: **Information Disclosure on Sustainable Operations**

Chair: **Jianyue Wang**

Title	Author
Mandatory Carbon Reporting and Firm Operational Efficiency: Empirical Evidence from the UK	<u>Hugo Lam</u> , Andy Yeung, Jeff Ng, Chris Tang
Implications of SR Disclosure Strategies in Platform Retailing	<u>Yurong Liang</u> , Bin Dai
Common Ownership and Corporate Climate Risk Disclosure: Evidence from Chinese Listed Firms	<u>Chen Wang</u> , Jianling Wang
Apparel Retail and Rental Business Models and Sustainability Implications	<u>Jianyue Wang</u> , Ki Ling Cheung, Albert Ha

## Session B22 (Room 2132C)

Topic: **Topics in Behavioral Operations**

Chair: **Lei Xie**

Title	Author
Efficient Frontier and Applications in Product Offering and Pricing	<u>Chenxu Ke</u> , Lijian Lu, Ruxian Wang
Temptation and Information Provision in Live-Streaming Channel	<u>Liu Yang</u> , Tianwu Zhou, Laurens Debo, Shuo Huang
Managing Emergency Supplies with Guaranteed Delivery Under Dynamic Government's Orders and Real-Time Relief Supplier Response	<u>Linqiu Li</u> , Minxuan He, Fang Liu, Arvind Sainathan
Allocating Divisible Resources on Arms with Unknown and Random Rewards	<u>Wenhao Li</u> , Ningyuan Chen

# Parallel Session C

January 6 13:30 – 14:50

## Session C1 (Room 2126D)

Topic: **Emerging Topics of Decision-Making in Operations Management**

Chair: **Jiashuo Jiang**

Title	Author
Online Resource Allocation: Bandits Feedback and Advice on Time-Varying Demands	<u>Lixing Lyu</u> , Wang Chi Cheung
Smart Coordinated Multi-Energy Intra-Scheduling Inter-Sharing and Cost-Saving Redistribution for Multiple Microgrids	<u>Yangbing Xu</u> , Xin Lin, Shengxuan Ye, Qianyun Wen, Weihua Zhou, Jiangtao Huangfu
Distributionally Robust Discrete Choice Model and Assortment Optimization	<u>Daniel Zhuoyu Long</u> , Bin Hu, Qingwei Jin, Yu Sun
Target-Based Inventory Fulfillment Problem with Fairness Consideration	<u>Ziqi Liu</u> , Zheng Cui, Weihua Zhou

## Session C2 (Room 2126A)

Topic: **Data Driven Operations Management**

Chair: **Fang Liu, Yanlu Zhao**

Title	Author
The Trade Credit Bullwhip Effect in Production Networks	<u>Chong Chen</u> , Fang Liu, Ziang Wang
Toward Climate Resilient Cities: Robust Planning Against Extreme Rainfalls	<u>Wei Qi</u> , Sheng Liu, Aiqi Zhang
Personalized Dynamic Pricing and Learning with Customer Feature and Limited Inventories	<u>Yifan Li</u> , Yangyang Liu, Lei Xie, Fan Zhou
Optimal Pricing Strategies of Information Goods with Data-Enabled Learning	<u>Yu Tang</u> , Fang Liu, Lei Xie

### Session C3 (Room 2126B)

Topic: **Sequential Learning Problems in Operations Management**

Chair: **Dongwook Shin**

Title	Author
Online Reusable Resource Advance Booking with Multi-Class Arrivals	<u>Tianming Huo</u> , Wang Chi Cheung
A Mallows-Type Model for Preference Learning from (Ranked) Choices	<u>Yuxuan Tang</u> , Yifan Feng
Discovering Logic-Informed Intrinsic Rewards to Explain Human Policies	<u>Yinghao Fu</u> , Shuang Li
Feature Misspecification in Sequential Learning Problems	<u>Dongwook Shin</u> , Dohyun Ahn, Assaf Zeevi

### Session C4 (Room 2126C)

Topic: **Empirical Operations Management**

Chair: **Weiming Zhu**

Title	Author
Solving the Traffic Puzzle: Optimal Policies for Streamers in Live-Streaming Commerce	<u>Liu Ming</u> , Feifan Zhang, Wenchang Zhang
Dissecting the Learning Curve for Manufacturing Efficiency: An Empirical Analysis	<u>Mengfei Li</u> , Yue Cheng, Liu Ming, Xiaole Wu, Wenchang Zhang
Data-Driven Real-Time Coupon Allocation in Online Platform: A Large-Scale Field Experiment	<u>Weiming Zhu</u> , Jinglong Dai, Hanwei Li, Jianfeng Lin
Selecting Creators to Sign on a Content-Sharing Platform: A Deep-DiD Approach	<u>Yan Cheng</u> , Jingbo Wang, Xinyu Cao, Zuo-Jun Max Shen, Yuhui Zhang

### Session C5 (Room 2127A)

Topic: **Advancing Operations: Innovations in Sequential Decision Making**

Chair: **Ruohan Zhan**

Title	Author
Online Joint Assortment-Inventory Optimization under MNL Choices	<u>Xiaojie Mao</u> , Yong Liang, Shiyuan Wang
Minimax-Optimal Multi-Agent RL in Markov Games With a Generative Model	<u>Gen Li</u> , Yuejie Chi, Yuting Wei, Yuxin Chen
On the Value of Adaptivity in Sequential Experiments	<u>Yvonne Huijun Zhu</u> , Yifan Feng, Tu Ni
Switchback Experiments under Geometric Mixing	<u>Yuchen Hu</u> , Stefan Wager

### Session C6 (Room 2127B)

Topic: **Theory and Applications of Revenue Management**

Chair: **Zizhuo Wang**

Title	Author
The Optimization of Inbound Marketing: Assortment Planning, Pricing Management, and Paid Advertising	<u>Pin Gao</u> , Shujie Luan, Ruxian Wang, Weili Xue
Assortment Optimization in the Presence of Focal Effect: Operational Insights and Efficient Algorithms	<u>Chenyu Xue</u> , Bo Jiang, Zizhuo Wang, Nanxi Zhang
Pricing and Auction Design for Digital Freight Transportation Marketplaces	<u>Xuan Wang</u> , Sungwoo Kim, He Wang
Simple is Enough: A Cascade Approximation for Attention-Based Satisficing Choice Models	<u>Yicheng Liu</u> , Chenhao Wang, Pin Gao, Zizhuo Wang



## Session C7 (Room 2127C)

Topic: **Emerging Challenges in Pricing**

Chair: **Xiao Lei**

Title	Author
Online Learning and Pricing with Nonparametric Demand and Price Match Guarantee	<u>Sheng Ji</u> , Cong Shi, Yi Yang
Pricing Analytics for Primary and Ancillary Products using Conversion Rate Data	<u>Hailong Sun</u> , Changchun Liu, Chung Piaw Teo, Maoqi Liu
Regulating Discriminatory Pricing in the Presence of Tacit Collusion	<u>Zongsen Yang</u> , Xiao Lei, Pin Gao
Optimal Production Contract Design under Multiple Moral Hazard	<u>Mingliu Chen</u> , Feng Tian, Ruiting Zuo

## Session C8 (Room 2128A)

Topic: **Operations Management**

Chair: **Jiannan Ke, Huan Zheng**

Title	Author
The Value of Flexible Response in Resource Allocation Competition	<u>Sarah Yini Gao</u> , Chung-Piaw Teo, Huan Zheng
Data-Driven Remanufacturing Planning with Parameter Uncertainty	<u>Yue Shi</u> , Zhicheng Zhu, Yisha Xiang, Ming Zhao
Online Advertisement Allocation Under Customer Choices and Algorithmic Fairness	<u>Huan Zheng</u> , Xiaolong Li, Ying Rong, Renyu Zhang
Counterfeit Competition with Strategic Consumers	<u>Jiannan Ke</u> , Yucheng Ding, Xu Guan

### Session C9 (Room 2128B)

Topic: **Fairness in Operations Management**

Chair: **Menghang Wang**

Title	Author
Temporal Fairness in Learning and Earning: Price Protection Guarantee and Phase Transitions	<u>Qing Feng</u> , Ruihao Zhu, Stefanus Jasin
Socially Responsible Pricing	<u>Jing Peng</u> , Hongqiao Chen, Ming Hu
Cost Allocation in a Cooperative Delivery Game: Fairness and Robustness	<u>Menghang Wang</u> , Lindong Liu, Jie Wu, Lan Lu

### Session C10 (Room 2128C)

Topic: **New Topics in E-Commerce Platforms and Supply Chain**

Chair: **Xing Hu**

Title	Author
Learning to Rank under Strategic Manipulation in Small and Large Markets	<u>Yifan Feng</u> , Qinzhen Li, Hongfan(Kevin) Chen
Livestream Selling with Online Influencers	<u>Jing Hou</u> , Houcai Shen, Fasheng Xu
Sourcing Contracts with Bilateral Efforts and Renegotiation	<u>Ning Chen</u> , Hongyan Xu, He Huang, Liming Liu
Learning-by-Doing and Strategic Inventory under Inventory Commitment	<u>Juan Chen</u> , Houcai Shen

**Session C11 (Room 2129A)**  
**Topic: OM-Marketing Interface**  
**Chair: Yan Liu**

Title	Author
Simultaneous vs Sequential: Optimal Assortment Recommendation in Multi-Channel Retailing	<u>Yicheng Liu</u> , Xiao Alison Chen, Yan Liu, Zizhuo Wang
Anticipated Wait and Its Effects on Consumer Choice, Pricing, and Assortment Management	<u>Chenxu Ke</u> , Ruxian Wang, Zifeng Zhao
Supply Chain Transparency and Blockchain Design	<u>Jingchen Liu</u> , Yao Cui, Vishal Gaur
Is the More the Merrier for Coalition Loyalty Programs?	<u>Jingmai Wang</u> , Yan Liu, Yulan Wang, Dan Zhang

**Session C12 (Room 2129B)**  
**Topic: Data Analysis in Quantitative Finance**  
**Chair: Wei Jiang, Shize Li**

Title	Author
Nonlinear Dependence and Households' Portfolio Decisions over the Life Cycle	<u>Shize Li</u> , Wei Jiang, Jialu Shen
From Hotelling to Nakamoto: The Economics of Bitcoin Mining	<u>Yu Long</u> , Min Dai, Wei Jiang, Steven Kou, Cong Qin
Designing Structured Products on Traded Accounts	<u>Zihao Song</u> , Chen Yang
Design Good Liquidity Pools on Automated Market Makers	<u>Yutian Zhou</u> , Xuedong He, Chen Yang

### Session C13 (Room 2129C)

Topic: **Service Operations**

Chair: **Xiaole Chen**

Title	Author
A Uniform Approach for Analyzing Queues with Correlated Interarrival and Service Times	<u>Haoran Wu</u> , Qi-Ming He, Li Xia
Capacity Allocation and Scheduling in Two-Stage Service Systems with Multi-Class Customers	<u>Zhiheng Zhong</u> , Ping Cao, Junfei Huang, Sean X. Zhou
Equilibrium Analysis for the Seller's Fulfillment Channels	<u>Shu Hu</u> , Ke Fu
Learning Decisions Offline from Censored Observations with $\epsilon$ -insensitive Operational Costs	<u>Teng Huang</u> , Minxia Chen, Ke Fu, Miao Bai

### Session C14 (Room 2130A)

Topic: **Information and Behaviors in Service Operations**

Chair: **Qiao-Chu He**

Title	Author
Information Design of a Delegated Search	<u>Zhenyu Hu</u> , Yangge Xiao, Shouqiang Wang
Managing Consumer Search in Omnichannel Operations via Information Design	<u>Ailing Xu</u> , Qiao-Chu He, Ying-Ju Chen
Dine-in or Food Delivery: A Dilemma of Priority? The Optimal Service Mechanism for Restaurants	<u>Qian Zhang</u> , Yongjian Li, Zhongbin Wang, Dongyuan Zhan
Dual Pricing with Purchase Hassle	<u>Yifu Li</u> , Xuelan Zhang, Jun Lin
Strategic Communications in Entry to a Joint Innovation Venture	<u>Zhenxiao Chen</u> , Kanglin Chen, Qiao-Chu He

## Session C15 (Room 2130B)

Topic: **Supply Contracting and Channel Coordination**

Chair: **Chen Yang**

Title	Author
Push vs. Pull Contracts in Retail Supply Chains: Risk Aversion, Information Asymmetry, and Outside Opportunity	<u>Chengfan Hou</u>
The Bright Side of Price Volatility in Global Commodity Procurement	<u>Liming Liu</u>
Developing a Store Brand or Collecting a Commission: Amazon's Choice and Quality Decision	<u>Hui Xiong</u> , Ying-Ju Chen, Lu Hsiao
Optimal Selling Channel in Online Platforms: The Roles of Network Structure	<u>Chen Yang</u> , Lijian Lu, Jin Qi

## Session C16 (Room 2130C)

Topic: **Optimization in Transportation and Delivery**

Chair: **Hai Wang**

Title	Author
Learning for Guiding: A Framework for Unlocking Trust and Improving Performance in Last-Mile Delivery	<u>Genshen Fu</u> , Pujun Zhang, Dazhou Lei, Wei Qi, Zuo-Jun Max Shen
Efficient Construction of Arc-Based Transportation Network Models using Graph Attention Networks	<u>Keji Wei</u> , Vikrant Vaze
Recursive Logit-Based Meta-Inverse Reinforcement Learning for Driver-Preferred Route Planning	<u>Pujun Zhang</u> , Dazhou Lei, Shan Liu, Hai Jiang
Short-Term Idle Vehicle Repositioning in the Ride-Hailing System	<u>Xian Lyu</u> , Zhengli Wang, Hai Wang

## Session C17 (Room 2131A)

Topic: **Supply Chain Risk Management**

Chair: **Guang Xiao**

Title	Author
Sourcing Under Supply Uncertainty: Impact of International Commercial Terms	<u>Jingwen Xu</u> , Yulan Wang, Guang Xiao, Lei Chen
Flexibility Value of Reshoring Capacity under Import Cost Uncertainty and Domestic Competition	<u>Xiao Tan</u> , Panos Kouvelis, Sammi Tang
Vertical Information Sharing in the Presence of Investment Shocks: When May It Happen?	<u>Puping Jiang</u> , Panos Kouvelis
Crop Production in Emerging Economies: The Pricing Lever of Processing Plant	<u>Jian Li</u> , Panos Kouvelis, Guang Xiao

## Session C18 (Room 2131B)

Topic: **Optimization Models for Service Systems**

Chair: **Zheng Zhang**

Title	Author
Daily Movie Scheduling Incorporating Customer Choice	<u>Ning Fang</u> , Zhou Xu, Weihua Zhou
Managing Appointments for A Multi-Stage-Multi-Server System	<u>Can Zhao</u> , Xuan Liao, Zheng Zhang
Design of Patient Visit Itineraries in Tandem Systems	<u>Shan Wang</u> , Nan Liu, Guohua Wan
Helping the Captive Audience: Advance Notice of Diagnostic Service for Hospital Inpatients	<u>Zheng Zhang</u> , Miao Bai, Nan Liu

## Session C19 (Room 2131C)

Topic: **Incentive Structures and Behavioral Effects in Healthcare Operations**

Chair: **Zhaowei She**

Title	Author
Decision Fatigue in Physicians	<u>Han Ye</u> , Junjian Yi, Songfa Zhong
From Black to Grey: Improving Access to Antimalarial Drugs in the Presence of Counterfeits	<u>Jiatao Ding</u> , Michael Freeman, Saša Zorc
The Theory and Practice of Shared Savings Programs	<u>Xinyue Fei</u> , Frank Chen, Wei Zhang, Long Gao
The “Netflix Model”: A New Payment Model for Silent Diseases	<u>Huaiyang Zhong</u> , Zhaowei She, Yueran Zhuo, Jagpreet Chhatwal, Tugay Ayer

## Session C20 (Room 2132A)

Topic: **Theoretical and Empirical Studies on Sustainable Operations**

Chair: **Yihua He**

Title	Author
Female-Enhanced Operations: Relationships between Female Workers and Safety Performance	<u>Wenjun Shu</u> , Di Fan
The Impact of Sustainability Management Practices on Firm Performance: Chinese Evidence	<u>Shuo Shan</u> , Lingjia Li, Yongyi Shou, Weihua Zhou
On the Heterogeneous Impacts of Green Manufacturing Adoption on Operational Efficiency	<u>Fuzhen Liu</u> , Ni (Nina) Huang, Kee-Hung (Mike) Lai
A Cost-Agnostic Model for Infrastructure Planning in Sustainable Water Development	<u>Yihua He</u> , Guillermo Gallego, Mengqian Lu, Jin Qi

## Session C21 (Room 2132B)

Topic: **Sustainability and Sharing Economy**

Chair: **Ying Xu**

Title	Author
When Trade-in Refurbishment meets P2P Market: Product Design and Environmental Regulation	<u>Xin Zhou</u> , Fan Zhou, Ravi Anupindi, Feng Tian
Pricing Strategies in Dual-Channel Closed-Loop Supply Chains: Trade-In vs. Direct Purchase Customers	<u>Yang Xiao</u> , Hisashi Kurata
Escaping the “Black Holes”: Periodic Repair and Maintenance Problem of Shared Bikes	<u>Chengcheng Yu</u> , Lindong Liu, Qiao-Chu He, Lan Lu
The Impacts of Ride-Hailing on Car Ownership under Individual Choice Endogeneity	<u>Ying Xu</u> , Yuliu Su, Shih-Fen Cheng, Costas Courcoubetis

## Session C22 (Room 2132C)

Topic: **Emerging Topics in Supply Chain Management I**

Chair: **Zhou Xu**

Title	Author
Stochastic Network Programs over Multigraph with Random Arc Capacities	<u>Haiqing Song</u> , Fudong Xie, Yun Cai
Beyond Traditional Transshipment: A Flexible Mechanism for Multi-Echelon Logistics System	<u>Lindong Liu</u> , Zheng Tan, Yugang Yu
Multi-Product Inventory Control with Consolidated Shipping and Demand Learning	<u>Shining Wu</u> , Liutao Yang
Driving Growth in Competing Supply Chains: Leveraging Upstream Demand Expansion and Downstream Information Sharing	<u>Ruina Yang</u> , Yingdan Zhang, Zelong Yi



# Parallel Session D

January 6 15:10 – 16:30

## Session D1 (Room 2126D)

Topic: **Data-Driven Operations Management**

Chair: **Kai Pan**

Title	Author
Operating a Grid-Vehicle Integration System: A Machine Learning-Driven Optimization Approach	<u>Ziliang Jin</u> , Jianqiang Cheng, Kai Pan, Zuo-Jun Max Shen, Yulan Wang
Optimized Dimensionality Reduction for Moment-Based Distributionally Robust Optimization	<u>Shiyi Jiang</u> , Jianqiang Cheng, Kai Pan, Zuo-Jun Max Shen
Transfer Learning, Cross Learning and Co-Learning Across Newsvendor Systems with Operational Data Analytics (ODA)	<u>Lei Li</u> , Qi Feng, J. George Shanthikumar
Data-Driven Distributionally Robust Chance-Constrained Linear Matrix Inequalities	<u>Fengjie Liang</u> , Jianqiang Cheng, Kai Pan

## Session D2 (Room 2126A)

Topic: **Distributionally Robust Optimization and Its Applications**

Chair: **Daniel Zhuoyu Long**

Title	Author
Distributionally Robust Contextual Optimization with Contaminated Data	<u>Chun Wang</u> , Ningyuan Chen, Tianyu Wang
Distributionally Robust Pricing with Asymmetric Information	<u>Yihua He</u> , Hongqiao Chen, Jin Qi, Lianmin Zhang
Robust Security Design with Moment Information	<u>Kerui Tu</u> , Yi Li, Yimin Yu, Du Du
Distributionally Robust Group Testing with Correlation Information	<u>Yu Sun</u> , Zhuoyu Long, Jin Qi, Aiqi Zhang

### Session D3 (Room 2126B)

Topic: **Empirical Research on Retail Operations**

Chair: **Xiaojing Feng, Ying Rong**

Title	Author
The Value of Curated Boxes: Evidence from an Omnichannel Fashion Retailer	<u>Yiwei Wang</u> , Lauren Xiaoyuan Lu
Me vs. You: The Effect of Relative Performance Feedback on Employee Behavior in Real-Time Feedback System	<u>Zhi Chen</u> , Weihua Zhou, Yuqian Xu, Jay Swaminathan
Relationship between Package Delivery Speed and Product Returns Revisited: Endogeneity and Nonlinearity	<u>Xiaojing Feng</u> , Mengmeng Wang, Guangzhi Shang, Ying Rong, Cheng Fang

### Session D4 (Room 2126C)

Topic: **Empirical Research in Operations Management**

Chair: **Yilin Shi, Jing Wu**

Title	Author
Mergers and Product Repositioning: Theory and Empirical Evidence Presenting	<u>Yushu Zeng</u> , Xin Wang, Soo-Haeng Cho, Zijun (June) Shi
The US-China Trade War and Global Supply Chain Rerouting	<u>Boya Peng</u>
Value of Exclusive Doorstep Delivery in the Last-100-Meter Distribution	<u>Yang Zhan</u> , Zheng Zhang, Jiwen Ge
Facility Location Choices through the Supply Chain	<u>Xiaoran Ma</u>

## Session D5 (Room 2127A)

Topic: **Emerging Topics in Operations Management**

Chair: **Zhichao Feng, Zechao Li**

Title	Author
Preservation of Multimodularity with Nonlattice Structures and Its Applications in Stochastic Optimization Problems	<u>Fen Xu</u> , Tong Wang, Li Xiao
Improving Farmer Welfare via Weather Index Insurance: Sell-Direct and Sell-Through Mechanisms	<u>Yuxuan Zhang</u> , Christopher S. Tang, Jiayi Joey Yu
Capacity and Pricing Management with Demand Learning	<u>Zechao Li</u> , Jian Chen, Anyan Qi, Yining Wang
No Algorithmic Collusion in Two-Player Blindfolded Game with Thompson Sampling	<u>Yi Xiong</u> , Ningyuan Chen, Xuefeng Gao

## Session D6 (Room 2127B)

Topic: **Platform Operations and Pricing Strategies**

Chair: **Tianjun Feng, Jingchen Liu**

Title	Author
Online Dynamic Pricing on Asset-Selling Platforms	<u>Puping Jiang</u> , Rene Caldentey, Lingxiu Dong
Personalized Pricing with Limited Capacity	<u>Yuhang Ji</u> , Huiqi Guan, Tianjun Feng, Fuqiang Zhang
Bonus Competition in the Gig Economy	<u>Jingchen Liu</u> , Li Chen, Yao Cui, Xiaoyan Liu
Personalized Pricing with Storable Products	<u>Wangyang Lu</u> , Huiqi Guan, Tianjun Feng, Fuqiang Zhang

## Session D7 (Room 2127C)

Topic: **New Frontiers in Revenue Management**

Chair: **Jiameng Lyu**

Title	Author
Dynamic Film Scheduling Under Multinomial Logit Model	<u>Yongchang Fu</u> , Junyu Cao, Long He, Weihua Zhou
Rational Choice Models: The Temporal Tree Representation	<u>Mengying Xue</u> , Qi Feng, J. George Shanthikumar
Online Choice-Based Decision Making for Consumer Preferences	<u>Ping Wang</u> , Qingxian An
Network Revenue Management with Demand Learning and Fair Resource-Consumption Balancing	<u>Jiameng Lyu</u> , Xi Chen, Yining Wang, Yuan Zhou

## Session D8 (Room 2128A)

Topic: **Innovation OM**

Chair: **Guiyun Feng**

Title	Author
Aggregating or Interacting: How to Create Collective Forecasts?	<u>Steffen Keck</u> , Wenjie Tang
Does Supplier Concentration Impede Firms' Digital Innovation? A Resource Dependence Perspective	<u>Jie Deng</u> , Shao Lin, Jing Dai, Jinan Shao, Wuyue Shangguan
Blessing or Curse: Third-Party Information for First-Party Brand Development	<u>Jinzhi Li</u> , Tian Lin, L. Jeff Hong
R&D Project Portfolio Collaboration: How to Structure the Strategic Alliance?	<u>Guiyun Feng</u> , Pascale Crama, Wenqi Lian

## Session D9 (Room 2128B)

Topic: **Consumer Privacy and Trust in E-Commerce**

Chair: **Yu (Anna) Lin**

Title	Author
Information Richness, Consumer Privacy, and Manufacturer Encroachment	<u>Nina Yan</u> , Jizhou Lu, Hao Li
Data Sharing Regulation in Digital Supply Chain: Impact of Contracts and Privacy	<u>Ayesha Arora</u> , Tarun Jain
Consumer Trust and Product Choice in Online Marketplace: A Motivated Belief Perspective	<u>Yu (Anna) Lin</u> , Xianchi Dai, Wenjie Tang
Voluntary Information Disclosure of an E-Commerce Platform under Reselling, Marketplace, and Hybrid Selling	<u>Jia Shi</u> , Lap Keung Chu, Huajiang Luo

## Session D10 (Room 2128C)

Topic: **Reviews, Rebates, and Recommendations in E-Commerce**

Chair: **Xuefeng Peng**

Title	Author
Who Launches Coupon Promotion in an E-Commerce Supply Chain?	<u>Shan Du</u> , He Huang, Hongyan Xu
Online Consumer Reviews in a Supply Chain with Horizontal Competition	<u>Hao Li</u> , Nina Yan, Jizhou Lu
Inducing Consumer Reviews with Rebate Provision in Platform Selling	<u>Ruixiao Dong</u> , Xu Guan
Conditional Rebates for Multi-Product Firms: Implications for E-Commerce	<u>Xuefeng Peng</u> , Qiao-Chu He, Shaofu Du

### Session D11 (Room 2129A)

Topic: **Operations-Marketing Interface**

Chair: **Xiaomeng Guo**

Title	Author
Product Safety and Liability with Deceptive Advertising and Moral Hazard	<u>Xu Guan</u> , Huan Cao, Yucheng Ding, Krista Li
Managing Newsboys: Product Substitution for Online Marketplaces	<u>Jiaqi Lu</u> , Yilun Chen
Product Return Policies: The Impacts of Vertical Bargaining and Contracting with Retail Competition	<u>Chengzhang Li</u> , Yufei Huang, Tingliang Huang
Managing Returns in Livestream Retailing	<u>Xue Zhao</u> , Xiaomeng Guo, Guang Xiao

### Session D12 (Room 2129B)

Topic: **Algorithmic Methods in OM- Finance Interface**

Chair: **Zonghao Yang**

Title	Author
Efficient Portfolio Rebalancing via Cost-Aware Bayesian Optimization	<u>Peng Liu</u>
Optimal Trade Execution with Learning	<u>Andrew Lim</u> , Galvin Ng
A Two Timescale Evolutionary Game Approach to Multi-Agent Learning and its Application in Algorithmic Collusion Study	<u>Nan Chen</u> , Chengli Ren, Mingyue Zhong
Doing Well by Doing Good: Interest Rate Determination for Unsecured Personal Loans	<u>Zonghao Yang</u> , Ram Gopal, Xiao Qiao, Moris Strub

### Session D13 (Room 2129C)

Topic: **Recent Topics in Service Operations**

Chair: **Yuchen Liang**

Title	Author
Coping with the Service Paradox: The Role of Digital Platforms	<u>Xinyi Fan</u> , Yongyi Shou, Steven Day
Offline Retailer's Add-on Service Provision in Omnichannel Retailing	<u>Jingye Huang</u> , Xuefeng Peng, Qiao-Chu He
Cooperation in Queues	<u>Zheyuan Huang</u> , Liu Yang
The Impact of Workload on Operational Performance: Empirical Evidence from Last-Mile Delivery	<u>Yuchen Liang</u> , Stanley Lim, Guodong Lyu, Chung-Piaw Teo

### Session D14 (Room 2130A)

Topic: **On-Demand Services and Platforms**

Chair: **Yang Bo**

Title	Author
Pricing and Lead-time Optimization in Service Platforms with Heterogeneous Customers: The Value of On-demand Service	<u>Xin Weng</u> , Lijian Lu, Li Xiao
Expanding Platform Capacity through Asset Rental Programs: Design and Implications	<u>Deyin Ji</u> , Guiyun Feng, Yannis Bellos
Uber-izing Dabbawala: Enabling Massive On-Demand Delivery via Urban Public Transport-Based Scheme	<u>Yundong Feng</u> , Wei Qi, Zuo-Jun Max Shen
Food-Delivery Platforms: Near-Optimal Policies for Capacity Sizing, Order-Batching and Routing	<u>Yang Bo</u> , Milind Dawande, Ganesh Janakiraman

## Session D15 (Room 2130B)

Topic: **Game-Theoretic Models in Operations Management**

Chair: **Duo Shi**

Title	Author
Adulteration in Traceable Supply Chains under Government Inspections: Side-Effect and Competition from Non-Traceable Supply Chains	<u>Jinxin Yang</u> , Weihua Zhou, Zhong Chen, Retsef Levi
Selling to Consumers with Discretionary Search	<u>Shuaishi Yuan</u> , Quan Zheng, Kai Pan, Xuying Zhao, Yugang Yu
Recycled Label Design and Green Competition	<u>Xiaoli Zhang</u> , Xiaomeng Guo, Duo Shi, Guang Xiao
Free Samples in Achieving Data Validation: Blessing or Curse?	<u>Hong Zheng</u> , Lin Tian, Guo Li

## Session D16 (Room 2130C)

Topic: **Drones and Urban Air Mobility**

Chair: **Hai Wang**

Title	Author
UAM Airspace Design and Management: Issues and Challenges	<u>Yanjun Wang</u> , Jin Yang, Qizhao Liang, Xu Hang
Route Network Planning Methods for Drone Delivery Services in Cities	<u>Xinyu He</u> , Lishuai Li
Multi-Agent Deep Reinforcement Learning for Dynamic Routing Problem with Drones	<u>Chuankai Xiang</u> , Lishuai Li, Zhibin Wu
Urban Delivery with a Coordinated Fleet of Trucks and Drones	<u>Wenjia Zeng</u> , Hai Yang, Hai Wang, Mingyao Qi



## Session D17 (Room 2131A)

Topic: **Resource Planning in Healthcare Operations**

Chair: **Shumin Ma**

Title	Author
Optimal Admission Control With Workload and Overwork Effects	<u>Qingfa Zhang</u> , Yiwen Shen
Managing Appointment-Based Services with E-visits	<u>Yun Cai</u> , Haiqing Song, Shan Wang
Emergency Department Boarding: Quantifying the Impact of ED Boarding on Patient Outcomes and Downstream Hospital Operations	<u>Huifeng Su</u> , Lesley Meng, Rohit Sangal, Edieal Pinker
Travel Restriction Policies During Pandemic	<u>Shumin Ma</u> , Nana Li, Jin Qi, Xiangtong Qi

## Session D18 (Room 2131B)

Topic: **New Topics in Healthcare Operations Management**

Chair: **Li Luo**

Title	Author
Biology-Inspired Network Medicine Approach to Drug Discovery	<u>Qingpeng Zhang</u>
Structural Estimation of Intertemporal Externalities in ICU Admission Decisions	<u>Yiwen Shen</u> , Carri Chan, Fanyin Zheng
Emergency Preparedness: Optimal Pharmacy Purchasing Strategies	<u>Jie Xiang</u> , Renbang Shan, Li Luo
Forecast then Optimize: A Bayesian Temporal Factorization Model for Physical Examination Demands	<u>Benkun Chen</u> , Li Luo, Mengzhuo Guo

## Session D19 (Room 2131C)

Topic: **Advances in Healthcare Operations**

Chair: **Yvonne Huijun Zhu, Joel Goh**

Title	Author
Drop in the Ocean: Inventory Management for Large Public Cord Blood Banks	<u>Sundara Natarajan Panchanatham</u> , Harry Groenevelt, Sameer Hasija
On Waiting Time Prediction in Hospital Emergency Departments	<u>Chengye Zou</u> , Yiran Zhang, Huiyin Ouyang, Zhankun Sun
The Impact of Humanitarian Operations on Doctors' Care Provision: Empirical Evidence from a Volunteering Program	<u>Qiyuan Wang</u> , Charles B. Weinberg, Chunhua Wu
Dynamic Staffing of Healthcare Workers in a Pandemic	<u>Yvonne Huijun Zhu</u> , Joel Goh

## Session D20 (Room 2132A)

Topic: **Integrated and Data-Driven Energy Systems**

Chair: **Wenqing Ai, Wei Qi**

Title	Author
Data Sharing in Energy Systems	<u>Jianxiao Wang</u>
Crowdsourcing Electric Mobility for Omni-Sharing Distributed Energy Resources	<u>Wenqing Ai</u> , Wei Qi, Tianhu Deng
Decision-Making Towards an Active Distribution Network	<u>Chenye Wu</u> , Nan Gu, Jingshi Cui
First-in-First-out (FIFO) or Highest-Energy-First-out (HEFO)? A Tale of Two Electric Vehicle Battery Swapping Policies	<u>Wei Qi</u> , Mengyi Sha, Yuli Zhang

## Session D21 (Room 2132B)

Topic: **On-Demand Delivery Platform**

Chair: **Yanlu Zhao, Chang Dong**

Title	Author
Smoothing Peak and Filling Valley: Predictive Dynamic Pricing and Routing for Same-Day Delivery and Next-Day Delivery	<u>Di Wu</u> , Xiangyong Li, Kai Pan
Distance-Based Fee Design of On-Demand Delivery	<u>Mingliu Chen</u> , Manlu Chen, Ming Hu, Jianfu Wang
Climate Change and On-demand Food Delivery Platform: Impacts and Managerial Implications	<u>Run Ge</u> , Susan Feng Lu, Wenzheng Mao
Market Thickness in Online Food Delivery Platforms: The Impact of Food Processing Times	<u>Yanlu Zhao</u> , Felix Papier, Chung-Piaw Teo

## Session D22 (Room 2132C)

Topic: **Emerging Topics in Supply Chain Management II**

Chair: **Weixin Shang**

Title	Author
Data Driven Inventory Management for Perishable Products	<u>Weihua Zhou</u>
Values of Personalization in O2O On- Demand Delivery with Crowd-Sourced Drivers	<u>Hongyan Dai</u>
Robust Multi-Source Capacity Planning	<u>Qi Fu</u>
Mass Production Timing and Information Sharing	<u>Weixin Shang</u>

# Parallel Session E

January 6 16:50 – 18:10

## Session E1 (Room 2126D)

Topic: **Machine Learning and Operations Management**

Chair: **Zhi Wang**

Title	Author
High-Dimensional Linear Bandits with Knapsacks	<u>Wanteng Ma</u> , Dong Xia, Jiashuo Jiang
Online Resource Allocation: Bandits Feedback and Advice on Time-Varying Demands	<u>Lixing Lyu</u> , Wang Chi Cheung
End-to-End Deep Learning Algorithms for Inventory Rebalancing Strategies in Shared Capacitated Micro-Mobility Systems	<u>Ruicheng Liu</u> , Jianyu Xu, Cagatay Iris, Jianghang Chen
UCB-C: An Efficient UCB Algorithm for Contextual Bandit-Based Learning with Continuous Actions	<u>Zhi Wang</u> , Rui Gao

## Session E2 (Room 2126A)

Topic: **Advanced Topics in Robust Optimiztion**

Chair: **Haolin Ruan**

Title	Author
Robust Contextual Portfolio Optimization with Gaussian Mixture Models	<u>Ling Dai</u> , Yijie Wang, Grani A. Hanasusanto, Chin Pang Ho
Robust Queue Inference from Waiting Times	<u>Eojin Han</u> , Chaithanya Bandi, Alexej Proskynitopoulos
Adversarially Robust Optimal Control with Causal Transport Distance	<u>Yizhe Huang</u> , Rui Gao
Robust Satisficing MDPs	<u>Haolin Ruan</u> , Siyu Zhou, Zhi Chen, Chin Pang Ho

### Session E3 (Room 2126B)

Topic: **Recent Developments in Decision Analytics**

Chair: **Dohyun Ahn**

Title	Author
An Information-Theoretic Analysis of Nonstationary Bandit Learning	<u>Seungki Min</u> , Daniel Russo
Herding in Probabilistic Forecasts	<u>Yanwei Jia</u> , Jussi Keppo, Ville Satopaa
Service System Design via Partial Simulation	<u>Fei Xing</u> , Jiang Li, Siyang Gao, Weiwei Chen, Yunzhe Qiu
Optimal Selection of Heavy-Tailed Systems for Tail Risk Mitigation	<u>Dohyun Ahn</u> , Taeho Kim

### Session E4 (Room 2126C)

Topic: **Business Analytics and Operations**

Chair: **Hsiao-Hui Lee**

Title	Author
Understanding Human-Algorithm Interaction in Retail Ordering Decisions: A Causal Machine Learning Approach	<u>Howard Hao-Chun Chuang</u> , Ping Chou, Yen-Chun Chou, Rogelio Oliva
Ordering Problem in Meituan Youxuan: From Data Partitions to Model Stacking	<u>Ying Rong</u> , Zhenkang Peng, Chengzhang Li, Guangrui Ma, Zichao Luo, Mingyong Zhao, You Li
From Storefronts to Screens: An Exploration of Ship-from-Store, Customer Behavior, and SKU-Level Impacts	<u>Wenzheng Mao</u> , Zhanyu Dong, Hsiao-Hui Lee, Xiaoli Liu
Are Firms Voluntarily Disclosing Emissions Greener?	<u>Yilin Shi</u> , Jing Wu, Christopher S. Tang

## Session E5 (Room 2127A)

Topic: **Data Driven Supply Chain Management**

Chair: **Xiaoyu Fan**

Title	Author
Sparse Additive Contextual Bandits: A Nonparametric Approach for Online Decision-making with High-Dimensional Covariates	<u>Qingwen Zhang</u> , Wenjia Wang, Xiaowei Zhang
A Machine Learning Approach to Solving Large Bilevel and Stochastic Programs: Application to Cycling Network Design	<u>Bo Lin</u> , Timothy C. Y. Chan, Shoshanna Saxe
Data Aggregation for Stochastic Optimization	<u>Zhenkang Peng</u> , Chengzhang Li, Ying Rong
Sample Complexity of Policy Learning for Inventory Control with Censored Demand	<u>Xiaoyu Fan</u> , Boxiao Chen, Zhengyuan Zhou

## Session E6 (Room 2127B)

Topic: **Assortment Optimization**

Chair: **Wenjie Huang**

Title	Author
An Exact Method for Cardinality-Constrained Assortment Optimization under the Cross-Nested Logit Model	<u>Le Zhang</u> , Hai Jiang
Assortment Optimization for the Multinomial Logit Model with Repeated Customer Interactions	<u>Chenhao Wang</u> , Pin Gao, Ningyuan Chen, Yao Wang
Multi-Warehouse Assortment Selection: Minimizing Order Splitting in E-Commerce Logistics	<u>Hongyuan Lin</u> , Xiaobo Li, Fang Liu
The Impact of Risk-Awareness on Assortment Planning	<u>Wenjie Huang</u> , Junjie Lei, Zizhuo Wang

## Session E7 (Room 2127C)

Topic: **Content and Advertising Management**

Chair: **Qirui Yang**

Title	Author
Sponsored Data: A Game-Theoretic Model with Content Provider Video Resolution Differentiation	<u>Yunbing Li</u> , Jie Wu, Yong Zha
Planning Content in News Outlets, Fast and Slow	<u>Wenjuan Li</u> , Peiwen Yu, Qing Li
Ad Blockers and Ad Quality	<u>Jingyan Li</u> , Quan Zheng, Shichang Li, Jie Wu, Duo Shi
Bidding in Online Display Advertising: A Deep Reinforcement Learning Model for Mobile Gaming Market	<u>Qirui Yang</u> , Mengzhuo Guo, Qingpeng Zhang, Youhua Chen

## Session E8 (Room 2128A)

Topic: **Supply Chain Analytics**

Chair: **Eugene T.Y. Ang**

Title	Author
Nested Inexact Column and Constraint Generation for Stochastic Integrated Production and Replenishment Planning	<u>Zhihao Chen</u> , Zhixue Liu, Feng Li
Reducing Freight Delays in the Indian Railway Network: A Structural Analysis	<u>Himanshu Arha</u> , Kashish Arora, Milind Sohoni, Raja Gopalakrishnan
Optimizing A Human-AI Warehouse: Integrating Product Stowage and Retrieval Using Autonomous Robots	<u>Yuyu Liu</u> , Yun Fong Lim, Marcus Ang, Yugang Yu
Robust Supply Chain Network Design: Maximizing Matching Size With Adversarial Node Deletion	<u>Eugene T.Y. Ang</u> , Yifan Feng

## Session E9 (Room 2128B)

Topic: **Advanced Topic in Revenue Management**

Chair: **Renjun Hu**

Title	Author
Dynamic Pricing for Multi-Product Consumer Electronics Trade-in Program	<u>Zhuoluo Zhang</u> , Sean X. Zhou, Yanzhe (Murray) Lei
Economic Impacts of Consumers' Add-On Purchases on Retailers' Pricing Decisions	<u>Samuel Shuai Liu</u> , T.C.E. Cheng, Xiaoping Xu
Research on the Competitive Strategy of Community Group Buying Platform considering Users' Participation under Network Externality	<u>Jing Zheng</u> , Yong Wang, Yue Chen, Yi-Min Song
Assortment and Fulfillment Optimization for Online Grocery Retail	<u>Renjun Hu</u> , Hyun-Soo Ahn, Lennart Baardman

## Session E10 (Room 2128C)

Topic: **Fintech and Blockchain**

Chair: **Shuai Hao**

Title	Author
AI, Blockchain, Supply Chain Visibility, Agility, and Supply Chain Resilience: Configuration Analysis Based on fsQCA	<u>Hao Zheng</u> , Jing Dai, Boying Li
Invoice Tokenization for Deep-Tier Payables Finance	<u>Jing Hou</u> , Burak Kazaz, Fasheng Xu
Fintech Operations: An Overview of Recent Developments and Future Research Directions	<u>Shuai Hao</u> , Baile Lu, Michael Pinedo, Yuqian Xu



## Session E11 (Room 2129A)

Topic: **Operations Management Under Competition**

Chair: **Derui Wang**

Title	Author
Provision of Software Features amid Hardware Commoditization: Standard or Optional?	<u>Haiyang He</u> , Peiwen Yu, Feng Yang, Minyue Jin
Media Platform Competitive Strategy with Heterogeneous Consumer Behavior	<u>Xue Li</u> , Jing Fan, Jihong Zhang, Tianyu Yang
Tariff Hedging with a New Supplier? An Analysis of Sourcing Strategies Under Competition	<u>Shuyue Yi</u> , Lezhen Wu, Xiaole Wu
Endogenous Merger Decisions Among Competitors: Impact of Limited Capacity and Loyal Segments	<u>Derui Wang</u> , Xiaole Wu, Christopher S. Tang, Yue Dai

## Session E12 (Room 2129B)

Topic: **Policy Development in OM- Finance Interface**

Chair: **Yu Du**

Title	Author
How a Platform's Private Label Interacts with a Manufacturer's Financing Strategy	<u>Prasenjit Mandal</u> , Sambit Brata Rath, Preetam Basu
Who is the Best Insurance Buyer? Financing the Capital-Constrained Manufacturer with Trade Credit Insurance	<u>Hechen Zhong</u> , Nina Yan, Tingting Tong
Cointegrated Product and Financial Markets: Production Planning and Risk Hedging	<u>Tingjin Yan</u> , Jinhui Han
The Impacts of Winner-Takes-All Policy on Crowd Participation in an Innovation Contest	<u>Yu Du</u> , Chi To Ng, Yefei Yang

### Session E13 (Room 2129C)

Topic: **Operational Transparency and Visibility**

Chair: **Ehsan Bolandifar**

Title	Author
Invisibility of Financial Terms in Competing Supply Chains	<u>Zelong Yi</u> , Hao Huang, Zhen Tan
Queue Visibility Decisions in Customer-Intensive Services	<u>Junxue Zhang</u> , Chenguang (Allen) Wu, Ying-Ju Chen
Operational Transparency: Showing We are Different	<u>Meng Zheng</u> , Simai He, Christopher Thomas Ryan, Danli Yao
The Paradox of Budget Transparency in Crowdfunding	<u>Ehsan Bolandifar</u>

### Session E14 (Room 2130A)

Topic: **Recent Advances in Service Operations**

Chair: **Minjian Liu**

Title	Author
Carbon Footprint Reduction in an E-Commerce Market: Impacts of Logistics Service Sharing	<u>Xuelian Qin</u> , Zhixue Liu, Zhi Yang, Lin Tian
Interactions of Strategic Inventory and Contract Design on the Retail Platform's Entry in Logistics Service Sharing	<u>Xi Yang</u> , Bin Dai
Risk Sharing in a Two-Level Supply Chain with Variable Capacity and Random Yield	<u>Xiao Xiao</u> , Xiang Fang
Pricing, Channel Design, and Platform Operations with Buy-Online-and-Pick-up-in-Store in Online Food Delivery Market	<u>Minjian Liu</u> , Shaofu Du, Tengfei Nie, Yangguang Zhu

## Session E15 (Room 2130B)

Topic: **Scheduling and Design in Operations Management**

Chair: **Yifu Li**

Title	Author
Integrated Production and Transportation Scheduling Problem under Nonlinear Cost Structures	<u>Julong Wang</u> , Zhixue Liu, Feng Li
Order Selection and Fulfillment Integration Problem with Flexible Products	<u>Miao Wang</u> , Feng Li
A Branch-and-Bound Algorithm for the Resource Constrained Project Scheduling Problem with Transfer Times	<u>Ying Liu</u> , Shuang Jin, Jing Zhou, Qian Hu
Optimal World Design in Video Games	<u>Yifu Li</u> , Christopher Thomas Ryan, Lifei Sheng, Benny Wong

## Session E16 (Room 2130C)

Topic: **Vehicle Routing Problems**

Chair: **Yang Xia**

Title	Author
Optimizing Vessel Routing Problems for Maintenance activities in offshore wind farms	<u>Chandra Ade Irawan</u> , Said Salhi, Giampaolo Buticchi, Hing Kai Chan
A Novel Decision Support Framework for Multi-Objective Aircraft Routing Problem	<u>Francisco Benita</u> , Francisco López-Ramos, Nuno Antunes Ribeiro
Urban Medical Waste Management: A Data-Driven Chance-Constrained Optimization Approach	<u>Ginger Y. Ke</u> , Jiaohong Zhao, Jianfeng Chen, Zhiwei Chen
A Branch-and-Price-and-Cut Algorithm for the Vehicle Routing Problem with Load-Dependent Drones	<u>Yang Xia</u> , Wenjia Zeng, Canrong Zhang, Hai Yang

## Session E17 (Room 2131A)

Topic: **Humanitarian and Crisis Management**

Chair: **Ning Zhu**

Title	Author
Equity-Based Multi-Objective Model for Mothership and Drone-Boat Routing Problem in Relief Distribution	<u>Fadillah Ramadhan</u> , Chandra Ade Irawan, Zhao Cai
Relief Items' Prepositioning and Distribution Based on Spatial Losses Prediction for Typhoon Disasters	<u>Xintong Zhang</u> , Zhaolin Hu
Distributional Robustness and Inequity Mitigation in Disaster Preparedness of Humanitarian Operations	<u>Ning Zhu</u> , Hongming Li, Erick Delage, Michael Pinedo, Shoufeng Ma

## Session E18 (Room 2131B)

Topic: **Healthcare Information Systems and Provision**

Chair: **Chao Zhang**

Title	Author
How does Health Information Exchange Technology Affect Patients' Care Seeking? Perspective from Continuity of Care	<u>Mingshan Zhang</u> , Yao Li
Combatting Opioid Abuse: The Role of Drug Dosage Alert Systems	<u>Yongchun Fang</u> , Lin Qiu, Yao Li
Adoption of Healthcare Information Exchange: A Mixed-Method Approach	<u>Qi Lin</u> , Yao Li
Strategic Communications in Sequential Dialysis Modality Selection	<u>Chao Zhang</u>

## Session E19 (Room 2131C)

Topic: **Decision-Making in Healthcare Operations**

Chair: **Hanzhe Li**

Title	Author
The Impact of Physician Practice Behavior on Emergency Department Congestion	<u>Huifeng Su</u> , Lesley Meng, Rohit Sangal, Edieal Pinker
The Impact of Patient Choice on Referral-Based Healthcare Systems	<u>Guohao Li</u> , Brian Rongqing Han, Mahesh Nagarajan, Chunyang Tong
Evaluating the Impact of Supply Frequency in Vaccine Distribution Network Under Demand Uncertainty	<u>Paulina Kus Ariningsih</u> , Chandra Ade Irawan, Jing Dai, Antony Paulraj
AI Persuasion, Bayesian Attribution, and Career Concerns of Doctors	<u>Hanzhe Li</u> , Jin Li, Ye Luo, Xiaowei Zhang

## Session E20 (Room 2132A)

Topic: **Sustainable Operations**

Chair: **Zimeng Li**

Title	Author
The Effect of Subscription Service for Electric Vehicles on the Market Performance of Supply Chain Partners and Relevant Stakeholders	<u>Yifan Hou</u> , Jie Zhang
Mitigating the Risk of Flooding Caused by Sea Level Rise and Hurricane Storm Surge	<u>Foad Mahdavi Pajouh</u> , Donald Jenkins, Paul Kirshen, Mahyar Eftekhari
Cold Storage Installation and E-Commerce for Perishable Crops	<u>Zhou Feng</u> , Shiliang Cui
Capacity Management for Battery Swap Stations Under Demand Charges	<u>Zimeng Li</u> , Zhankun Sun, Quan Yuan

## Session E21 (Room 2132B)

Topic: **Behavioural Bias in Operations Management**

Chair: **Juan Li**

Title	Author
Demand Forecast for Product Selection with Signals: An Experimental Study	<u>Juan Li</u> , Wanshan Zhu, Manqi Li
Beyond Home Delivery: An Empirical Examination of the Impact of Self-Pickup Stations on Online Shopping	<u>Chenxi Liao</u> , Jingcun Cao, Ying Xie
Behavioral Biases of Users in P2P Sharing and Its' Implications: An Experimental Study	<u>Yanan Song</u> , Yaozhong Wu, Xiaobo Zhao
Analysis of Return Behaviour in Live Streaming E-Commerce: From the Perspective of Projection Bias	<u>Juan Li</u> , Yazhou Niu, Yunhui Huang, Xinpeng Wei

## Session E22 (Room 2132C)

Topic: **Emerging Topics in Supply Chain Management III**

Chair: **Pin Gao**

Title	Author
Kernel Multigrid: Accelerating Back-Fitting via Intrinsic Sparsity of Additive Gaussian Processes	<u>Liang Ding</u> , Lu Zou
Assortment Optimization with Consumer Search: Approximations and Applications	<u>Pin Gao</u> , Guillermo Gallego, Zhen Wang
Joint Resource Planning for Multiple Hospitals during an Epidemic	<u>Yan Zhu</u> , Xiangtong Qi, Lindong Liu