

SESSION INFORMATION

SESSION 1A Retailing Operations Session Chair: Ying Wei

July 30th
13:00-14:30
Room: S203

- 1 The Impact of Trade Credit on Information Sharing in a Supply Chain
Presenter: Wang Ce
- 2 Impact of Strategic Inventory on the Contract Design of Logistics Service Sharing in a Retail Platform
Presenter: Yang Xi
- 3 Pooling or separating? Positioning inventory for omnichannel retailing operations
Presenter: Ying Wei
- 4 Right to Repair: Pricing, Welfare, and Environmental Implications
Presenter: Chen Jin

SESSION 1B OM-Marketing Interface I Session Chair: Xiaole Wu

July 30th
13:00-14:30
Room: S204

- 1 Rawlsian fairness in push and pull supply chains
Presenter: Yanmin Jiang
- 2 Merger Decisions Among Competitors: Impact of Limited Capacity and Loyal Segments
Presenter: Derui Wang
- 3 Brand Spillover as a Marketing Strategy
Presenter: Yu Zhou
- 4 Managing Multi-Rooming: Why Uniform Price Can Be Optimal for a Monopoly Retailer
Presenter: Yue Dai

SESSION 1C Behavior/Sustainable Operations Session Chair: Xuan Zhao

July 30th
13:00-14:30
Room: S208

- 1 Transshipment Between Overconfident Newsvendors
Presenter: Li Jialu
- 2 Environmental Responsibility: Impact of Waste-Sorting Regulation on Secondary Markets
Presenter: Qiang Li
- 3 Cognitive Bias in Demand Forecasting: A Blessing or a Curse?
Presenter: Zheng Yini
- 4 Designing Multidimensional Auction with Loss-averse Workers In Online Labor Markets
Presenter: Xianghua Wu

SESSION 1D Topics in Retailing and Sharing Economy Session Chair: Yong Liang

July 30th
13:00-14:30
Room: S209

- 1 Offline-Channel Planning in Smart Omnichannel Retailing
Presenter: Hao Shen
- 2 Consumer Choice Modeling via Operational Data Analytics
Presenter: Mengying Xue
- 3 Green Packaging or Greenwashing? Implication of Bring-your-own-container
Presenter: Yunlong Peng
- 4 Quality and quantity tradeoff of on-demand service platforms with congestion-sensitive customers
Presenter: Yunzhi Wu

SESSION 1E OM in Platform Economy I Session Chair: Liu Ming

July 30th
13:00-14:30
Room: S210

- 1 Estimating and Exploiting the Impact of Photo Layout: A Structural Approach
Presenter: Weiming Zhu
- 2 Skilled Worker Turnover on On-demand Service Platforms: Evidence and Prescriptions from Caregiver Markets
Presenter: Wenchang Zhang
- 3 An experimental investigation of target rebate contract for product returns
Presenter: Yue Cheng
- 4 The platform's optimal salary strategy and order allocation mechanism design under the gig economy
Presenter: Tao Zhiying

SESSION 1F COVID-19 Related Operational Issues Session Chair: Rowan Wang

July 30th
13:00-14:30
Room: S303

- 1 Divide and Conquer: A Hygienic, Efficient, and Reliable Assembly Line for Housekeeping
Presenter: Rowan Wang
- 2 How the Covid-19 Pandemic Affects Work Resumption and Productivity: Evidence from China
Presenter: Shuyu Xue
- 3 Fly with Us When They Cancel Your Flight: An Innovative Business Model to Utilize Perishable Service Capacity
Presenter: Rowan Wang

SESSION 1G Operations in Pandemic Session Chair: Guangwen Kong

July 30th
13:00-14:30
Room: S304

- 1 No Panic in Pandemic: The Impact of Individual Choice on Public Health Policy and Vaccine Priority
Presenter: Miao Bai
- 2 Hospital Admission and Social Distancing: An SEIR Model with Constrained Medical Resources
Presenter: Zhiyuan Chen
- 3 Capacitated SIR Model with an Application to COVID-19
Presenter: Chaoyu Zhang
- 4 The Impact of COVID-19 on Supply Chain Credit Risk
Presenter: Ziang Wang

SESSION 1H Internet-Plus Logistics and Supply Chain Operations Management Session Chair: Min Huang

July 30th
13:00-14:30
Room: S308

- 1 A two-stage stochastic winner determination model integrating a hybrid mitigation strategy for transportation service procurement auctions
Presenter: Xiaohu Qian
- 2 The flexible truckload pickup and delivery problem considering reserved orders and fuel consumption
Presenter: Hui Zhang
- 3 Supply Chain Network Design Considering Customer Psychological Behavior- A 4PL Perspective
Presenter: Hanbin Kuang
- 4 Build or join a sharing platform? The choice of manufacturer's sharing mode
Presenter: Yu Zhang

SESSION 11 **Simulation** **Session Chair: Yijie Peng**

July 30th
13:00-14:30
Room: S309

- Decomposed Simulation Optimization of Cancer Screening Strategies with Random Observations
Presenter: Zheng Zhang
- Asymptotically Optimal Sampling Policy for Selecting Top-m Alternatives
Presenter: Gongbo Zhang
- Solving Large-Scale Fixed-Budget Ranking and Selection Problems
Presenter: Ying Zhong
- Estimating Confidence Intervals and Regions for Quantiles by Monte Carlo Simulation
Presenter: Lei Lei

SESSION 1J **Data Analytics in Service and Manufacturing System** **Session Chair: Jie Song / Jianguo Wu**

July 30th
13:00-14:30
Room: S310

- The Credit Assessment Approach for Chinese Companies based on the Bigdata Method
Presenter: George Yuan
- Iterative Hypothesis Testing for Period Estimation of Noisy Signals via Dynamic Significance Levels
Presenter: Yongxiang Li
- A Permutation-Dependent Separability Approach for Capacitated Two-Echelon Inventory Systems
Presenter: Xiaobei Shen
- Optimal Dynamic Decisions under Uncertain Covariates
Presenter: Fan Zhang
- Efficient and Interpretable Monitoring of High-Dimensional Categorical Processes
Presenter: Kai Wang

SESSION 1K **FinTech, Innovation and Risk Management I** **Session Chair: Junqing Zuo**

July 30th
13:00-14:30
Room: S207

- The Economic Consequences of Corporate Integrity: Evidence from Corporate Responsibility for Employees
Presenter: Junqing Zuo
- Research on the Scale Constraints of Short-selling in China's Capital Market
Presenter: Rongtian Zhou
- Limited attention and mobile technology: the role of screen size
Presenter: Haibo Wu
- Investor attention and Information Asymmetry: Evidence from China
Presenter: Xing Chen

SESSION 2A **Supply Chain Finance and Crowdfunding** **Session Chair: Wenhui Zhao**

July 30th
14:45-16:15
Room: S203

- Quality Signaling through Crowdfunding Pricing
Presenter: Ehsan Bolandifar
- Investment Strategies for Sourcing a New Technology in the Presence of a Mature Technology
Presenter: Wei Zhang
- Blockchain-Enabled Digital Voucher Financing and Transfer in a Three-Level Supply Chain
Presenter: Xiangfeng Chen
- Ordering and interest rate strategies in platform finance with an overconfident e-commerce retailer
Presenter: Yang Yang

SESSION 2B **Operations and Supply Chain Management I** **Session Chair: Xu Guan**

July 30th
14:45-16:15
Room: S204

- Downstream Information Sharing and Sales Channel Selection in a Platform Economy
Presenter: Guo Li
- Exclusive Selling: Impact on Make-or-Buy Decisions and on Investment in Internal Capability Improvement
Presenter: Mao Yuan
- Information Acquisition with Advertising Threshold Effect under Manufacturer Encroachment
Presenter: Song Huang
- Smart Navigation via Strategic Communications in a Mixed Autonomous Paradigm
Presenter: Yonghui Chen
- Rebate competition and contract selection in platform selling
Presenter: Yuan Jiang

SESSION 2C **Data Science and Decision** **Session Chair: Zhaolin Hu**

July 30th
14:45-16:15
Room: S208

- Cluster Sampling for Morris Method Made Easy
Presenter: Wen Shi
- Adaptive Importance Sampling for Efficient Stochastic Root Finding and Quantile Estimation
Presenter: Guangxin Jiang
- Multivariate Spatial-Temporal Modeling with Latent Low-Dimensional Dynamics
Presenter: Xin Yun
- Robust Bayesian hierarchical modeling and inference using scale mixtures of normal distributions
Presenter: Linhan Ouyang

SESSION 2D **Information and Sharing in Service Operations** **Session Chair: Jianfu Wang**

July 30th
14:45-16:15
Room: S209

- Strategic Inventory, Network Externality and Copycats
Presenter: Allen Wu
- Economic Behavior of Information Acquisition: Impact on Peer Grading in MOOCs
Presenter: Dongyuan Zhan
- Share or Solo? Individual and Social Choices in Ride-Hailing
Presenter: Hengda Wen
- Design of Covid-19 Testing Queues
Presenter: Zhongbin Wang

SESSION 2E **Topics in Marketplace Analytics** **Session Chair: Yufeng Cao**

July 30th
14:45-16:15
Room: S210

- Dynamic Pricing for Two-sided Marketplaces with Offer Expiration
Presenter: Yufeng Cao
- Optimal Pricing in Two-sided Markets with Positive or Negative Network Effects
Presenter: Tengfei Guo

SESSION 2F
July 30th
14:45-16:15
Room: S303

Analysis and Decision Making in Supply Chain and Blockchain Session Chair: Lianmin Zhang / Lixiang Li

- 1 Pricing Optimization and Competition under the Linear Nested Stochastic Choice Model
Presenter: Lixiang Li
- 2 What Do Institutional Investors Bring to Initial Coin Offerings(ICOs)?
Presenter: Siyi Wang
- 3 Token Sales Design under Network Effect
Presenter: Zhao Liu
- 4 Competition and Cooperation in Co-product Supply Chain: Stable Procurement Alliances
Presenter: Yangyang Peng

SESSION 2G
July 30th
14:45-16:15
Room: S304

Topics in Data, Learning, and Decisions I Session Chair: Yongzhen Li

- 1 Supermodularity in Two-Stage Distributionally Robust Optimization
Presenter: Aiqi Zhang
- 2 Data Driven Feature-Based Newsvendor: A Distributionally Robust Approach
Presenter: Mingyang Fu
- 3 Data-driven Robust Product Design under Uncertain Correlated Consumer Preferences
Presenter: Yongzhen Li
- 4 Coordinating Electric Vehicle Charging Station Installation between the Government and Automakers
Presenter: Musen Li
- 5 Resource Allocation in Correlated Competitions
Presenter: Jiahao He

SESSION 2H
July 30th
14:45-16:15
Room: S308

Emerging Topics in Urban Transportation and Logistics Session Chair: Lindong Liu

- 1 Generating Delivery Plan in Real Time for Vehicle Routing Problem with Dynamic Orders before Cut-off time
Presenter: Xiaoying Gou
- 2 The effect of Trust Mechanism Level in a reverse supply chain
Presenter: Yuqing Liang
- 3 Stable matching for Integrating Ridesharing and Public Transit on a Mobility-as-a-Service Platform
Presenter: Wu Yating
- 4 Commercializing the Package Flow: Cross-sampling Physical Products Through E-commerce Warehouses
Presenter: Brian RQ Han

SESSION 2I
July 30th
14:45-16:15
Room: S309

Simulation Analytics for Port and Logistics Session Chair: Xiao Jin / Xinhu Cao

- 1 A distributed and high-fidelity simulation system for automated container terminal
Presenter: Xiaoming Yang
- 2 A general 3D discrete event simulation (DES) framework for automated container terminals
Presenter: Tianshun Shi
- 3 Combined putaway and picking strategies in a third-party warehouse of retail chain stores
Presenter: Xuefei Liu
- 4 Simulation with Learning and Optimization – Three Carriages Driving the Development of Intelligent Digital Twins for Port Applications
Presenter: Haobin Li

SESSION 2J
July 30th
14:45-16:15
Room: S310

Service and Manufacturing System Session Chair: Kai Wang

- 1 Impact of Fine-grained Service Quality on Service Reputation and Passenger Flow in Tourism Services
Presenter: Zhen Li
- 2 Service Rate Decision in Experienced Products Considering Conformity Effect
Presenter: Ruohua Wang
- 3 Warranty cost optimization for deteriorating products considering limit maintenance time
Presenter: Ting Li
- 4 Price and Quality Decision in the Presence of Information Sharing
Presenter: Danyu Liang

SESSION 2K
July 30th
14:45-16:15
Room: S207

Information, Incentives and Behaviors Session Chair: Qiao-Chu He

- 1 Policy Implementation in the Presence of Platform-Retailer Conflict
Presenter: Xingyu Fu
- 2 Incentive Carbon Emission Reduction: Is certification rule the answer?
Presenter: Qingye Wu
- 3 Impact of Tariffs and Price Premiums of Locally Manufactured Products on Global Manufacturers' Sourcing Strategies
Presenter: Kanglin Chen
- 4 Advance Selling and Upgrading in Priority Queues
Presenter: Yaolei Wang

SESSION 3A
July 30th
16:30-18:00
Room: S203

OM-Marketing Interface III Session Chair: Di Wu

- 1 Probabilistic Selling and Secondary Market
Presenter: Di Wu
- 2 Conspicuous Consumption in Primary, Secondary and Rental Markets
Presenter: Di Wu
- 3 Promotion and Distribution Strategies in a Retail Platform Supply Chain under Demand Uncertainty
Presenter: Yuwen Du
- 4 Managing return policies with consumer resale
Presenter: Yong Lei
- 5 Optimal Product Introduction Strategies in the Presence of Price Signals
Presenter: Yalan Zhu

SESSION 3B
July 30th
16:30-18:00
Room: S204

OM under New Retailing and Data-driven Intelligent Management Session Chair: Mingzheng Wang

- 1 Let Artificial Intelligence Be Your Shelf Watchdog: The Impact of AI-powered Shelf Monitoring on Product Sales
Presenter: Liqiang Huang
- 2 Channel Structures of Online Retail Platforms
Presenter: Shilu Tong
- 3 Sponsored Search Advertising with Non-Monotonic-Decreasing Distribution of Click-Through-Rate: Equilibrium Analysis, Impact Investigation
Presenter: Yun Zhou
- 4 The Incentive Mechanism between the Social E-commerce Company and the Farmers' Cooperative: Consumers Behavior, Technology Choice, and Profit Sharing
Presenter: Zizhuo Wang

SESSION **3D** **Operational Approaches in E-commerce Platform I** **Session Chair: Zhen Chen**

July 30th
16:30-18:00
Room: S209

- 1 Endogenous credit guarantee for supplier finance with bankruptcy cost
Presenter: Chaocheng Gu
- 2 A chance-constrained programming approach for a cash-flow stochastic inventory problem
Presenter: Zhen Chen
- 3 Hedging Inventory Risk by Information Crowdsourcing
Presenter: Yi Yang
- 4 The Implications of Capacity Sharing Based on Platform for Strategy of Manufacturers Providing Digital Services
Presenter: Xinyue Tan
- 5 Revenue Management under a Fare Alert Mechanism
Presenter: Nanxi Zhang

SESSION **3E** **Topics in Revenue Management I** **Session Chair: Jiwen Ge**

July 30th
16:30-18:00
Room: S210

- 1 Selling to mom and pop: Optimizing supplier sales effort in emerging markets
Presenter: Jiwen Ge
- 2 Profit or Growth? Dynamic Order Allocation in a Hybrid Workforce
Presenter: Eryn Juan He
- 3 Off-Platform Threats in On-Demand Services
Presenter: Eryn Juan He
- 4 Social Nudges Boost Production on Online Platforms: Field Experiments and Network Modeling
Presenter: Zhiyu Zeng

SESSION **3F** **Industry Applications** **Session Chair: Tianhu Deng**

July 30th
16:30-18:00
Room: S303

- 1 Understanding construction companies' intention to use BIM: the perspective of Manager's perceived value
Presenter: Rui Li
- 2 Digital Twin: What It Is, Why Do It, Related Challenges, and Research Opportunities for Operations Research
Presenter: Lu Wang
- 3 Capacity Allocation and Scheduling Control for Service Systems with Unknown Customers' Patience
Presenter: Lun Yu

SESSION **3H** **Operations in Transportation** **Session Chair: Ning Zhu**

July 30th
16:30-18:00
Room: S308

- 1 A two-stage robust approach to integrated station location and rebalancing vehicle service design in bike-sharing systems
Presenter: Ning Zhu
- 2 Vehicle Repositioning under Uncertainty
Presenter: Yu Zhang
- 3 Service Operations for Mixed Autonomous Paradigm: Lane Design and Subsidy
Presenter: Lan Lu
- 4 Regulating on-demand ride-sourcing services: A dynamic game-theoretical model and agent-based simulation
Presenter: Xiqun (Michael) Chen

SESSION **3I** **Topics in Operations Management** **Session Chair: Duo Shi**

July 30th
16:30-18:00
Room: S309

- 1 Food Safety Audits in Developing Economies: Decentralization vs. Centralization
Presenter: Duo Shi
- 2 The Responsiveness and Restoration of Logistic Services during COVID-19: Evidence from China
Presenter: Weihan Jia
- 3 Extubation Decision Making with Predictive Information for Mechanically Ventilated Patients in ICU
Presenter: Guang Cheng
- 4 Pricing Decisions in A Platform-based Capacity Sharing Supply Chain
Presenter: Yang Shuang

SESSION **3J** **Service Operations** **Session Chair: Shan Wang**

July 30th
16:30-18:00
Room: S310

- 1 Online Learning for Queueing Systems under Unknown Demand
Presenter: Xinyun Chen
- 2 Dynamic service rate control for reducing the risk of infection in service queueing networks
Presenter: Yujiao Sun
- 3 A memetic algorithm for integrated production and delivery scheduling with vehicle routing decisions
Presenter: Feier Qiu
- 4 On Scheduling Appointments in Tandem Service Systems
Presenter: Shan Wang

SESSION **3K** **OM-Marketing Interface II** **Session Chair: Shihong Xiao**

July 30th
16:30-18:00
Room: S207

- 1 Selling online display advertising by guaranteed contract combined with real-time bidding auction
Presenter: Junchi Ye
- 2 Product Quality Decision in E-commerce Environment: Online Retailer as a New Entrant
Presenter: Xiaoxiang Wang
- 3 Strategies for Manufacturers to Counter Showrooming
Presenter: Wang Yu
- 4 Customer Review Provision Policies with Heterogeneous Cluster
Presenter: Shihong Xiao

SESSION **4A** **Smart City Operations** **Session Chair: Jiayi Yu**

July 31st
07:00-08:30
ZOOM

- 1 Operating A Three-sided Marketplace: Pricing, Spatial Staffing and Routing in Food Delivery Systems
Presenter: Zhe Liu
- 2 End-to-End inventory management at E-commerces
Presenter: Meng Qi
- 3 Stall Economy: The Value of Mobility of Retail on Wheels
Presenter: Junyu Cao
- 4 Scaling Up Battery Swapping Services in Cities: A Joint Location and Repairable-Inventory Model
Presenter: Wei Qi
- 5 Crowd-starting a Shared (Shuttle) Service with Customer Engagement
Presenter: Long He

SESSION 4B
July 31st
07:00-08:30
ZOOM

Dynamical-System Models **Session Chair:** Bin Hu

- 1 Audit And Remediation Strategies In The Presence Of Evasion
Presenter: Shouqiang Wang
- 2 Prioritization strategies for delivering a two-dose vaccine during an epidemic/pandemic
Presenter: Yun Zhou
- 3 Optimizing Free-to-Play Online Games with Premium Subscription
Presenter: Yunke Mai
- 4 Operational Risk Management: Optimal Inspection Policy
Presenter: Yuqian Xu

SESSION 4C
July 31st
07:00-08:30
ZOOM

Technology and Operational Innovation **Session Chair:** Brian Han

- 1 Pricing OTC Drugs: Evidence From a Quasi-Experiment
Presenter: Yixin Iris Wang
- 2 Procurement Amid the COVID-19 Outbreak
Presenter: Meng Li
- 3 When Is Personalized Price Discount More Efficient? A Quasi-Experiment Study
Presenter: Baile Lu
- 4 Managing Order-Holding Problems in Online Retailing Platforms
Presenter: Shouchang Chen

SESSION 4D
July 31st
07:00-08:30
ZOOM

Privacy, Information Sharing, and Food Delivery **Session Chair:** Jiahua Wu

- 1 Information Sharing in an Online Marketplace with Co-opetitive Sellers
Presenter: Hong Zheng
- 2 Consumer profiling with data requirements: Structure and policy implications
Presenter: Jiahua Wu
- 3 Food Delivery Service and Restaurant: Friend or Foe?
Presenter: Manlu Chen
- 4 Consumer Profiling with Inventory Rationing
Presenter: Tao Lu

SESSION 4E
July 31st
07:00-08:30
ZOOM

Operations in Digital Platforms **Session Chair:** Jiankun Sun

- 1 The Impacts of Algorithmic Work Assignment on Fairness Perceptions and Productivity: Evidence from Field Experiments
Presenter: Bing Bai
- 2 Choice Overload with Search Cost and Anticipated Regret: Field Evidence and Theoretical Framework
Presenter: Jiankun Sun
- 3 Content Promotion for Online Content Platforms with Network Diffusion Effect
Presenter: Yunduan Lin
- 4 Cold Start to Improve Market Thickness on Online Advertising Platforms: Data-Driven Algorithms and Field Experiments
Presenter: Zikun Ye

SESSION 4F
July 31st
07:00-08:30
ZOOM

Blockchain in Platforms and Supply Chains **Session Chair:** Yao Cui and Jingchen Liu

- 1 Blockchain Collaboration With Competing Firms In A Shared Supply Chain: Benefits And Challenges
Presenter: Jingchen Liu
- 2 An investigation on the impact of counterfeiting and traceability on the secondary market
Presenter: Hubert Pun
- 3 To Infinity and Beyond: Financing Platforms with Uncapped Crypto Tokens
Presenter: Jingxing Gan
- 4 Blockchain-Enabled Deep-Tier Supply Chain Finance
Presenter: Fasheng Xu

SESSION 4G
July 31st
07:00-08:30
ZOOM

Emerging Topics in Service Operations **Session Chair:** Yuqian Xu

- 1 Role of Telehealth Adoption in Shaping Perceived Quality of Care: Empirical Analysis
Presenter: Yu-Wei Lin
- 2 Choice Modeling and Assortment Optimization in the Presence of Context Effects
Presenter: Reza Yousefi Maragheh
- 3 The Zocdoc Effect: How Does Online Information Impact Appointment Availability In Outpatient Care?
Presenter: Youngsoo Kim
- 4 Employees, Contractors, or Hybrid: An Operational Perspective
Presenter: Haotian Song

SESSION 4I
July 31st
07:00-08:30
ZOOM

Energy and Sustainability **Session Chair:** Helen and Yong

- 1 The Design of Green Reward Program
Presenter: Jiayuan Han
- 2 An Exponential Cone Programming Approach for Managing Electric Vehicle Charging
Presenter: Li Chen
- 3 Community Solar Value Generation and Distribution
Presenter: Owen Wu
- 4 Virtual Microgrids and Their Implication for Renewable Energy Investment and Peer-to-peer Electricity Trading
Presenter: Alexandar Angelus

SESSION 4J
July 31st
07:00-08:30
ZOOM

Data-Driven Sequential Decision Making **Session Chair:** Zhengyuan Zhou

- 1 Generic Drug Treatment Effectiveness: An Empirical Study
Presenter: Xinyu Liang
- 2 Interpretable Personalization via Optimal Linear Decision Boundaries
Presenter: Zhaonan Qu
- 3 Bidding and Pricing in Budget and ROI Constrained Markets
Presenter: Jason Cheuk Nam Liang
- 4 Dynamic Exploration and Exploitation : The Case of Online Lending
Presenter: Mingxi Zhu
- 5 Distributionally Robust Batch Contextual Bandits
Presenter: Nian Si

SESSION 5A
July 31st
11:00-12:30
Room: S203

Smart Supply Chain and Intelligent Logistics Service **Session Chair:** Weihua Liu

- 1 Smart Service Supply Chain Innovation: Considering Relationship Strength and Overconfidence
Presenter: Di Wang
- 2 Using Backup Source with Unreliable supplier: The Value of Flexibility and Monitoring Unreliability
Presenter: Xiang Li
- 3 Value of Group Leaders: When Sellers can Gain from the Community-based Group Buying Programs?
Presenter: Xiaoran Shi
- 4 Financing and Carbon Emission Reduction Strategies of Capital-constrained Manufacturers in E-commerce Supply Chains
Presenter: Huiping Fu

SESSION 5B
July 31st
11:00-12:30
Room: S204

Supply Chain Management in Retail Operations **Session Chair:** Bin Dai

- 1 Implications of Product Line Competition on Channel Matching Strategies in a Retail Platform
Presenter: Jiannan Ke
- 2 Behavior-based Pricing and Wholesale Price Contracting in Competing Supply Chains with Informative Advertising
Presenter: Minghui Xu
- 3 Online Channels and Store Brands: Strategic Interactions
Presenter: Xiaomeng Luo
- 4 Optimal Return Shipping Insurance Policy with Consumers' Anticipated Regret
Presenter: Yiming Li

SESSION 5C
July 31st
11:00-12:30
Room: S208

Marketing Interface & Economic Modeling **Session Chair:** Rachel Chen / Juan Li

- 1 Mobile Geo-Targeting: Inside vs. Outside a Mall
Presenter: Xiaoqing Xie
- 2 Service Design under Collaborative Consumption
Presenter: Chang Dong
- 3 Selling Professional Products Under Expertise Migration
Presenter: Pingfan Wang
- 4 Sales contests with minimum sales volume requirement: Models and analysis
Presenter: Zhen Shao
- 5 Vertical Differentiation with Exogenously Determined Common Attributes
Presenter: Xiaojuan Puyang

SESSION 5D
July 31st
11:00-12:30
Room: S209

Emerging Topics in Sharing Economy **Session Chair:** Tao Li

- 1 Product Sharing: A Threat or an Opportunity for Vertically Differentiated Manufacturers?
Presenter: Dali Huang
- 2 The More the Better? Operations and Incentives of an On-demand Medical Crowdsourcing Platform
Presenter: Jingxuan Geng
- 3 Competition Between P2P Ridesharing Platforms and Traditional Taxis
Presenter: Wen Diao
- 4 Price, Wage, and Fixed Commission in On-Demand Matching
Presenter: Yun Zhou

SESSION 5E
July 31st
11:00-12:30
Room: S210

Assortment, Pricing, Data under Discrete Choice Models **Session Chair:** Ruxian Wang

- 1 Product Price, Quality and Service Decisions under Consumer Choice Models
Presenter: Chenxu Ke
- 2 Product Bundle Recommendation and Pricing: How to Make It Work?
Presenter: Hailong Sun
- 3 Tractable Constrained Optimization over Multiple Product Attributes under Discrete Choice Models
Presenter: Hongzhang Shao
- 4 Operations Management under Consumer Choice Models with Multiple Purchases
Presenter: Shujie Luan

SESSION 5G
July 31st
11:00-12:30
Room: S304

Privacy Issues in Operations Management **Session Chair:** Ningyuan Chen

- 1 Privacy-Preserving Dynamic Personalized Pricing with Demand Learning
Presenter: Yining Wang
- 2 Privacy-Preserving Personalized Revenue Management
Presenter: Yanzhe Lei
- 3 Adaptive distributed learning system with privacy preservation
Presenter: Yao Wang
- 4 Privacy-Preserving Product Recommendation
Presenter: Pin Gao
- 5 Privacy Management in Service Systems
Presenter: Jianfu Wang

SESSION 5H
July 31st
11:00-12:30
Room: S308

Urban Transportation and Logistics Management **Session Chair:** Xiaolei Wang

- 1 An efficient algorithm for continuous bi-criteria traffic assignment
Presenter: Jun Xie
- 2 A Two-phase Approach For The Vehicle Routing Problem With Time Windows And Uncertain Travel Times
Presenter: Zhenzhen Zhang
- 3 Predicting the matching probability and ride/shared distance for each dynamic ridepooling order: A mathematical modeling approach
Presenter: Xiaolei Wang
- 4 Modeling and managing the morning commute problem with park-and-ride-sharing
Presenter: Jiancheng Long

SESSION 5I
July 31st
11:00-12:30
Room: S309

Healthcare Operations I **Session Chair:** Yichuan Ding

- 1 Managing Outpatient Service with Strategic Walk-ins
Presenter: Shan Wang
- 2 Joint Inter-day Planning and Intra-day Scheduling of Operating Rooms for Elective Surgeries with Time Windows
Presenter: Shenghai Zhou
- 3 Joint Appointment and Reentry Scheduling: Mitigating Onsite Overcrowding in Outpatient Services
Presenter: Yichuan Ding
- 4 Data-driven spatial-specific vaccine allocation framework for COVID-19
Presenter: Li Yingjie

SESSION 5J
July 31st
11:00-12:30
Room: S310

Data-driven Modeling in Healthcare **Session Chair:** Nan Liu and Zhankun Sun

- Urban Search and Rescue Resources Allocation in Flooding
Presenter: Huiyin Ouyang
- Data-Pooling for Personalized Intervention in Healthcare
Presenter: Xinyun Chen
- Treatment Planning of Victims with Heterogeneous Time-sensitivities in Mass Casualty Incidents
Presenter: Yunting Shi
- Dynamic Patient Prioritization in Hospital Emergency Departments
Presenter: Zhankun Sun

SESSION 5K
July 31st
11:00-12:30
Room: S207

Topics in Revenue Management II **Session Chair:** Lang Zekun

- A Rolling-horizon Decision Framework for Integrated Relocation and Parking Reservation in One-way Electric Carsharing Systems
Presenter: Lang Zekun
- Rider Behavior and Efficiency of Dockless Bike Sharing Systems
Presenter: Huan Cao
- Robust Policy Optimization for Feature-Based Newsvendor
Presenter: Luhao Zhang
- Delay Information in Virtual Queues: A Large-Scale Field Experiment on a Ride-Sharing Platform
Presenter: Yiming Zhang

SESSION 6A
July 31st
15:15-16:45
Room: S203

Operations and Supply Chain Management II **Session Chair:** Guanmei Liu

- Cooperative Financing from a Risk-Averse Bank under a Competitive Market
Presenter: Ma Chenglin
- Technology Investment into a Supplier with Upstream Entry
Presenter: Guanmei Liu
- Flexible versus Committed and Specific versus Uniform: Wholesale Price Contracting in A Supply Chain with Downstream Process Innovation
Presenter: Shuangqi Yan

SESSION 6B
July 31st
15:15-16:45
Room: S204

Operations and Supply Chain Management III **Session Chair:** Jingqi Wang

- More Investment Less Profit? An R&D Investment Conundrum of a Financially Constrained Firm in a Supply Chain
Presenter: Jingqi Wang
- Make or Buy: Effects of Supplier's Capacity and Contracting Forms on Optimal Component Strategy for End-Product Manufacturers
Presenter: Ling Li
- Optimal Inventory Control and Design Refresh Selection in Managing Part Obsolescence
Presenter: Zhenyang Shi
- Profit analysis and pricing strategy for the dual-channel supply chain considering the complimentary extended warranty
Presenter: Mengjin Guo
- Online channel introduction under contract negotiation: Reselling versus agency selling
Presenter: Chen Chongping

SESSION 6C
July 31st
15:15-16:45
Room: S208

OM with Learning **Session Chair:** Xiaobei Shen

- Optimal Salesforce Compensation with Learning: Early Success Bias and Late Success Encouragement
Presenter: Xiangyin Kong
- An Asymptotically Tight Learning Algorithm for Mobile-Promotion Platforms
Presenter: Zhichao Feng
- Finite-horizon joint inventory-pricing model with non-concave demand and lost sales
Presenter: Luyao Ba
- Incentives for Shared Services: Multi-Server Queueing Systems with Priorities
Presenter: Hanlin Liu
- Salesforce Compensation Design with Delegated Purchasing Task: A Two-Period Markov Decision Process Model
Presenter: Xiaoting Jiao

SESSION 6D
July 31st
15:15-16:45
Room: S209

Topics in Retail Operations and Online Marketplaces **Session Chair:** Xuan Wang

- Opaque selling under limited flexibility and pricing
Presenter: Hailun Zhang
- Capacity Optimization and Resource Allocation under Service Level Constraints
Presenter: Shixin Wang
- Posted Price versus Auction Mechanisms in Freight Transportation Marketplaces
Presenter: Xuan Wang
- Online Advertisement Allocation in the Presence of Customer Choices
Presenter: Ying Rong

SESSION 6E
July 31st
15:15-16:45
Room: S210

Marketplace Innovation **Session Chair:** Lu Wang / Qianbo Yin

- Online Retailers Going Offline: A Strategic Analysis of Product Empowerment
Presenter: Qianbo Yin
- Optimal Funding Strategies and Pricing Policies in Reward-Based Crowdfunding
Presenter: Xue Wang
- Commission Contracts in Three-sided Markets: Restaurants vs. Online Food Delivery Platforms
Presenter: Zhong Chen
- Pricing and Availability Management in Opaque Selling
Presenter: Zihao Zhang

SESSION 6F
July 31st
15:15-16:45
Room: S303

Emerging OM Models and Applications in Business **Session Chair:** Chun Wang

- Loot Box Pricing and Design
Presenter: Xiao Lei
- Play Like the Pros? Solving the Game of Darts
Presenter: Chun Wang
- Sourcing in an Increasingly Volatile World: Offshoring, Onshoring or Both?
Presenter: Jiaqi Lu
- Estimating Demand with Unobserved No-purchases on Revenue-managed Data
Presenter: Anran Li

SESSION **6G** **Operation management in Intelligent Manufacturing** Session Chair: Na Geng

July 31st
15:15-16:45
Room: S304

- 1 Economic-statistical Design of MEWMA Control Chart Based on Multi-objective Cuckoo Search Algorithm
Presenter: Zaifang Zhang
- 2 A robust unrelated parallel machine scheduling problem with uncertain processing and setup times
Presenter: Shijin Wang
- 3 Literature review on Capacity planning
Presenter: Xin Zhou
- 4 Deep Reinforcement Learning for Dynamic Parallel Machine Scheduling
Presenter: Shijin Wang
- 5 Channel Selection of Manufacturers under Product Sharing
Presenter: Kangzhou Wang

SESSION **6H** **Urban Transportation and Mobility** Session Chair: Hai Wang / Jiangan Jin

July 31st
15:15-16:45
Room: S308

- 1 Market Design for Commute-Driven Private Parking Lot Sharing
Presenter: Minghui Lai
- 2 Optimizing order-dispatching in the ride-sourcing market with impatient passengers
Presenter: Yinquan Wang
- 3 Research on two-stage robust optimization for slot allocation in airport network
Presenter: Wenjing Liu
- 4 Optimization of Ride-Sharing from Public Transportation Hub
Presenter: Jian Gang Jin

SESSION **6I** **Healthcare and Service Analytics** Session Chair: Jingui Xie

July 31st
15:15-16:45
Room: S309

- 1 From Census Data to Operational Details: a Refined Study on Workload and Efficiency of Medical Staff
Presenter: Qian Luo
- 2 Incentivized Referral System with Co-payment and Green Channels
Presenter: Houyuan Jiang
- 3 The impact of the prolonged service time for off-service placement on flexibility designs
Presenter: Yanting Chen
- 4 Vaccine Appointment Scheduling: The Second Dose Challenge
Presenter: Yini Gao

SESSION **6J** **IT-Enabled Innovations and Market Design** Session Chair: Jifeng Luo

July 31st
15:15-16:45
Room: S310

- 1 Use of AR Technology to Promote Innovative Products
Presenter: Chee Wei Phang
- 2 Integral Interface Design between a Software Platform and Its Apps
Presenter: Cheng Zhang
- 3 Is algorithm aversion more significant among trained experts?
Presenter: Chong Wang
- 4 The effect of paid knowledge sharing on customer retention and customer acquisition
Presenter: Yu Tong

SESSION **6K** **Responsible Value Chain Management** Session Chair: Yu Zhou

July 31st
15:15-16:45
Room: S207

- 1 Diffusing Green Innovations in Social Networks via Word of Mouth
Presenter: Zhaofu Hong
- 2 Implications of Supplier Encroachment in Upgraded Products Introduction
Presenter: Danli Lu
- 3 Comparison of Four Prevailing Forms of Agricultural Film Recycling Schemes
Presenter: Feifei Shan
- 4 Managerial optimism in a supply chain
Presenter: Yannan Jin
- 5 Less is more: Consumer education in a closed-loop supply chain with remanufacturing
Presenter: Minyue Jin

SESSION **7A** **Supply Chain Competition and Coordination** Session Chair: Shangsong Long

July 31st
17:00-18:30
Room: S203

- 1 Platform competition in a two-sided market of smart logistics: technology empowerment and technology diffusion
Presenter: Shangsong Long
- 2 Smart supply chain innovation model selection: exploitative innovation or exploratory innovation?
Presenter: Shuang Wei
- 3 Whether and How a New Brand Should Be Introduced? The Online Retailer's Introduction Strategies
Presenter: Boyuan Zhong
- 4 Advance selling decisions of retailer in dual channel of the fresh product supply chain
Presenter: Shuang Wu
- 5 Channel Competition and Coordination in the Presence of Hybrid Retailing
Presenter: Yanjie Liang

SESSION **7B** **Emerging Topics in SCM** Session Chair: Xiao Liu

July 31st
17:00-18:30
Room: S204

- 1 Corporate Social Responsibility in Supply Chain: Green or Greenwashing?
Presenter: Yilin Shi
- 2 Optimizing Storage Location Assignment Using Product Association Structure of Consumers' Market Basket
Presenter: Xiao Liu
- 3 Supply information transmission mechanism based on transmission entropy
Presenter: Yueran Zhang
- 4 A robust multi-echelon inventory system with multiple supply modes
Presenter: Liangquan Wang
- 5 The value of product recall insurance in a decentralized supply chain
Presenter: Jing Chen

SESSION **7C** **Behavior/Sustainable Operations** Session Chair: Minxue Wang

July 31st
17:00-18:30
Room: S208

- 1 Impact of financing models and carbon allowance allocation rules in a supply chain
Presenter: Minxue Wang
- 2 Green credit financing versus trade credit financing in a supply chain with carbon emission limits
Presenter: Simin An
- 3 The Optimal Green Strategies for Competitive Ocean Carriers under Potential Regulation
Presenter: Wei Zheng
- 4 Impact of Consumer Complaints on Time to Recall: Empirical Investigation of the Automobile Industry
Presenter: Weihai Jia

SESSION 7D
July 31st
17:00-18:30
Room: S209

Topics in Stochastic Models **Session Chair:** Jiannan Ke

- ① Signaling Service Quality Through Queue Disclosure
Presenter: Zhenwei Luo
- ② Please Don't Make Me Wait: Influence of Customers' Waiting Preference and No-Show Behavior on Appointment Systems
Presenter: Ruijie Zhang
- ③ Fair Allocation Algorithms for Cash Transfer Programs: From Predictive to Simultaneous and Sequential Policies
Presenter: Jiannan Ke
- ④ Optimal Upgrading Strategy for the Quality, Release Time and Pricing for Software Vendor
Presenter: Shuxia Peng

SESSION 7E
July 31st
17:00-18:30
Room: S210

Topics in Revenue Management IV **Session Chair:** Xiaobo Li

- ① An Approximation Method for Inventory Control or Joint Pricing and Inventory Control Problem
Presenter: Ye Lu
- ② Dimensioning On-Demand Vehicle Sharing Systems
Presenter: Shining Wu
- ③ Optimal Policies and Heuristics To Match Supply With Demand For Online Retailing
Presenter: Xiaobo Li
- ④ Convex Optimization for Bundle Size Pricing Problem
Presenter: Hailong Sun

SESSION 7F
July 31st
17:00-18:30
Room: S303

Operations under New Technology **Session Chair:** Li Yang

- ① Position Auctions with Endogenous Product Information: Why Live-Streaming Advertising Is Thriving?
Presenter: Pin Gao
- ② Values of Traceability in Supply Chains
Presenter: Jingchen Liu
- ③ A Model of Livestream Selling with Online Influencers
Presenter: Jing Hou
- ④ Live Commerce Retailing with Online Influencers: Two Business Models
Presenter: Baolong Liu

SESSION 7G
July 31st
17:00-18:30
Room: S304

Topics in Data, Learning, and Decisions II **Session Chair:** Gao Jia

- ① The Role of Security Externality in Firms' Security Outsource Incentives
Presenter: Yong Wu
- ② Scan Based Trading and Bargaining Equilibrium: A Structural Estimation of Channel Surplus
Presenter: Stanley Lim
- ③ Managing Overconfident Newsvendors: A Target-Setting Approach
Presenter: Tian Bai
- ④ Save Time or Save Face? The Social Presence Effect and Herding Effect in the Use of Facial Recognition Payment Technology in Retail
Presenter: Gao Jia
- ⑤ An Adaptive Hybrid Surrogate-Assisted Particle Swarm Optimization Algorithm for Expensive Structural Optimization
Presenter: Xiong xiong You

SESSION 7H
July 31st
17:00-18:30
Room: S308

Emerging Topics in Transportation **Session Chair:** Guowei Zhang

- ① Humanitarian relief network assessment using collaborative truck-and-drone system
Presenter: Guowei Zhang
- ② Data-driven distribution planning for inventory routing problem with discontinuous time windows
Presenter: Qiwen Tian
- ③ Core-based Cost Allocation for Collaborative Multi-Stop Truckload Shipping Problem
Presenter: Huajing Liu
- ④ Investigating the Impact of Ride-share Transportation on Patient No-Show Rates
Presenter: Shihong Xiao

SESSION 7I
July 31st
17:00-18:30
Room: S309

Technology and Operational Innovation **Session Chair:** George X Yuan

- ① Investor attention and Information Asymmetry: Evidence from China
Presenter: Xing Chen
- ② The Early Warning Features for the Predicting Financial Distress by using AI Algorithms
Presenter: George X Yuan
- ③ How does tolerance for failure matter for innovation?
Presenter: Tianxiu Zhang
- ④ Should banks offer concessions? Lending rates for manufacturers' green products
Presenter: Yanhong Si
- ⑤ Leveraging social-media risk communication to influence public emotions during a pandemic
Presenter: Shenming Song

SESSION 7J
July 31st
17:00-18:30
Room: S310

Digital Economy **Session Chair:** Ziqiong Zhang

- ① Any reputation is a good reputation: Influence of strategy-related reputation on the restructuring performance of hospitality firms
Presenter: Hui Li
- ② Growing User Base in the Early Stage of Digital Sharing Economy Platforms: An Integration of Competitive Repertoire and Institutional Legitimacy Theories
Presenter: Nianxin Wang
- ③ Pay for the Vulnerabilities in Third-Party Apps? Optimal Strategies for the Digital Platform Launching Bug Bounty Programs (BBPs).
Presenter: Tianlu Zhou
- ④ Single bus line timetable optimization with big data
Presenter: Xiang Li

SESSION 7K
July 31st
17:00-18:30
Room: S207

FinTech, Innovation and Risk Management II **Session Chair:** Yichu Wang

- ① The real effects of shadow banking: Evidence from China
Presenter: Yichu Wang
- ② Fintech, financial constraints, and innovation: evidence from China
Presenter: Na Ding
- ③ Present bias and the value of time consistency
Presenter: Rong Tang
- ④ Households Classification by Consumer Heterogeneity and the Propensity to Consume Analysis
Presenter: Shi Pu

SESSION 8A
August 1st
10:30-12:00
Room: S203

Data-driven Inventory Management **Session Chair:** Beryl Chen

- Optimal Policies for Dynamic Pricing and Inventory Control with Nonparametric Censored Demands
 Presenter: Boxiao (Beryl) Chen
- The Competitive Ratio of Threshold Policies for Online Unit-density Knapsack Problems
 Presenter: Jinglong Zhao
- Sampling-Based Approximation for Series Inventory Systems
 Presenter: Kairen Zhang
- Inventory Control and Learning for One Warehouse Multi Store System with Censored Demand
 Presenter: Sentao Miao

SESSION 8B
August 1st
10:30-12:00
Room: S204

OM-Marketing Interface IV **Session Chair:** Xiaomeng Guo

- E-Tailing with FinTech: Instant Return Credit
 Presenter: Duo Shi
- Friend or Foe? The Impact of Home-sharing Professional Investors on the Housing Market
 Presenter: Shihong Xiao
- Supply Risk Mitigation In A Decentralized Supply Chain: Price Postponement Or Payment Postponement?
 Presenter: Xin Geng
- A Model of Credit Refund Policies
 Presenter: Yan Liu

SESSION 8C
August 1st
10:30-12:00
Room: S208

Information, Incentives and Behaviors **Session Chair:** Fu Yiping

- The impacts of private risk aversion magnitude and moral hazard in R&D project under uncertain environment
 Presenter: Fu Yiping
- The influence of organizational innovation climate on employee innovation performance: the interaction effect between achievement motivation and regional innovation policy environment
 Presenter: Jinmeng Yu
- On the Impact of City Innovation Environment on Innovative Behavior of Scientific and Technological Workers: a Moderated-mediation Model
 Presenter: Yifan Zhu
- Influence of Scientific and Technological Workers' meaning of work on their innovation behavior: a moderated-mediation model
 Presenter: Kexin Liang
- Implications of consumer reviews and consumer loss aversion for information disclosure
 Presenter: Xiaoqing Fan

SESSION 8D
August 1st
10:30-12:00
Room: S209

Operational Approaches in E-commerce Platform II **Session Chair:** Yuanguang Zhong

- Cry-Wolf Syndrome in Recommendation
 Presenter: Baixun Li
- Robust Production Planning and Risk Aversion Analysis in Agricultural Supply Chains
 Presenter: Bin Cao
- Empty-car Repositioning for a Ride-Sharing Network System Providing Differentiated Services
 Presenter: Stefan Zillmann
- The Value of Store Inventory Sharing in Omnichannel Operations
 Presenter: Xiong Zhang

SESSION 8E
August 1st
10:30-12:00
Room: S210

Platform and Sharing Economy **Session Chair:** Xing Hu

- Flexible Labor Supply Behavior on Ride-Sourcing Platforms
 Presenter: Hao Sun
- Balancing Supply with Demand in Ride-hailing Platforms: An Operational Approach
 Presenter: Qin Zhou
- Research on Pricing Strategy of Capacity Sharing Platform Considering Service Level
 Presenter: Renjie Zhou
- Accurate Information Better? Sharing Commitment and Capacity Allocation under Supply Competition
 Presenter: Xiaomin Liu
- Quality Disclosure in the Presence of Online Reviews
 Presenter: Yufeng Yang

SESSION 8G
August 1st
10:30-12:00
Room: S304

Energy, Sustainability, and Social Responsibility **Session Chair:** Yi Wang

- Assessing the regional differences in the effectiveness of new energy vehicle incentive policies: Empirical evidence from 88 pilot cities in China
 Presenter: Xusheng Yao
- Can Blockchain Help Food Supply Chains with Platform Operations during COVID-19 Outbreak?
 Presenter: Lu Yang
- Building Smart City: Research on Typhoon Disaster Complaint Early Warning Based on Shanghai 12345 Hotline Complaint Data
 Presenter: Zhao Hui
- Managing Fish Farming and Production: Systems with Renewable Resource
 Presenter: Yi Wang

SESSION 8H
August 1st
10:30-12:00
Room: S308

Topics in Revenue Management III **Session Chair:** Feng Zhu

- Courteous or Crude? Managing User Conduct to Improve On-Demand Service Platform Performance
 Presenter: Bin Hu
- Calibrating Sales Forecast in a Pandemic Using Competitive Online Non-Parametric Regression
 Presenter: Ruihao Zhu
- Assign-to-Seat: Dynamic Capacity Control for Selling High-Speed Train Tickets
 Presenter: Feng Zhu
- Engineering Social Learning: Information Design of Time-Locked Sales Campaigns for Online Platforms
 Presenter: Shouqiang Wang

SESSION 8I
August 1st
10:30-12:00
Room: S309

Healthcare Operations II **Session Chair:** Yichuan Ding

- On the use of partitioning in the inpatient surgical department
 Presenter: Lien Wang
- Examining the role of mindfulness in preventing relapse to information technology addiction
 Presenter: Chongyang Chen
- The Cost of Task Switching: Evidence from the Emergency Department
 Presenter: Yiwen Jin
- To Introduce or Not? The Impact of Telemedicine on Hospital's Operation Decisions Considering Medical Consumption and Epidemic Influence
 Presenter: Cuihua Zhou

- ① Agency or Wholesale? The Role of Retail Pass-Through
Presenter: Honggang Hu
- ② The Effects of Different Fairness Reference Points on Collaborative Innovation of Supply Chain
Presenter: Hui Min Liu
- ③ Should a Sharing Platform Adopt the Bilateral Review System?
Presenter: Xuanqi Chen
- ④ Buy Online. Return in Competitor's Store: The Role of Selling Format
Presenter: Yi Chen
- ⑤ Should a domestic firm carve out a niche in overseas markets? Value of purchasing agents
Presenter: Jianxi Tang

