

Workshop & Session Details

| A1: Modern Logistic 1 (Workshop) | |
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| Workshop Chair: CHANG Tsung-Sheng | |
| Saturday, Oct. 12 13:40-15:10 Beihai hall on the 2nd floor 二楼北海厅 | Sharing of Research Works on Transport Logistics (Semi-Plenary Speech , 30 minutes) Author: CHANG Tsung-Sheng |
| | The Multi-Period Stochastic Programming Model of a Lateral Transshipment Problem Considering Rentals and Returns Authors: ARAGANE Koji, SATO Tetsuya and SHIINA Takayuki |
| | Design Support System for Product Model Change - A Case Study of Automotive Seat Authors: LIU Chuheng and WENG Jiahua |
| | The Study on the Appropriate Span of Traffic Lights Cycle to Reduce the Average Waiting Time in a Cross-Intersection Authors: LI Meng and LI Mingzhe |
| B1: Urban Operations Research 1 (Workshop) | |
| Workshop Chair: SUZUKI Atsuo | |
| Saturday, Oct. 12 13:40-15:10 Xihai hall on the 2nd floor 二楼西海厅 | Big Triangle and Small Triangle Method for Non-Convex Facility Location Problems - A Survey (Semi-Plenary Speech , 30 minutes) Author: SUZUKI Atsuo |
| | Multicriteria Decision Making Process Based on SMAA - Stochastic Multicriteria Acceptability Analysis Authors: WANG Haichao, ABDOLLAHI Elnaz, LAHDELMA Risto and SALMINEN Pekka |
| | Risk Management of Electrical Fires in China Authors: MATSUI Hajime and ONIKI Akira |
| | Reviewing Recovery Processes for the Damaged Social Infrastructures in Japan and Building a Performance Indicator for Designing Disaster Mitigation Policy Authors: KAWASE Yuji and OYAMA Tatsuo |
| C1: Financial Mathematics | |
| Chair: FU Jing | |
| Saturday, Oct. 12 13:40-15:10 | Spheres of Influence, Tipping Points, and Endogenous Systemic Risk in Dynamic Network Formation Games Authors: FU Jing, PAGE Frank and ZIGRAND Jean-Pierre |
| | The Consensus Game as the Basic Concept for Consensus Economics in Fintech Author: YUAN Xianzhi George |
| | Herd Behavior of Chinese Financial Market Based on Quantile Regression Theory Authors: GAO Liyuan and DING Yongmei |
| | Personalized Web Recommendation Service via Collaborative Filtering Algorithm Authors: HUANG Rui, DING Yongmei, ZHANG Yi and YANG Liu |
| | Estimation of Risk Indicators of Portfolio Basing the g-h Distribution Authors: LI Long, XU Chunhui and ANDO Masakazu |

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| Nanhai hall on the 2nd floor 二楼南海厅 | The Influence of Accounting Fraud on Stock Prices : Consideration from the Financial Services Agency's Administrative Monetary Penalty System Authors: EBIHARA Tasuku, FENG Ling and OGURA Noboru |
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A2: Modern Logistics 2 (Workshop)

Chair: SANG Haixia

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| Saturday, Oct. 12 15:20-16:20 | Design of Experiments and Simulation-Based Inventory Parameters Analysis for Automatic Store Replenishment Authors: SANG Haixia, ASADA M., SAKAJIRI Y., NAKAMURA Y., HIRATA H., HURUGEN K. and MUNECHIK M. |
| | AI Approach Based Layout Simulation for Warehouse Stacking Pallets Authors: JIAO Kaining and KAKU Ikou |
| Beihai hall on the 2nd floor 二楼北海厅 | A Closed-Loop Supply Chain Model with Strategic Consumers Author: LIAO Bifeng |

B2: Urban Operations Research 2 (Workshop)

Chair: MIURA Hidetoshi

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| Saturday, Oct. 12 15:20-16:20 | Analysis of Routing Systems in Grid Road Network Model by Scheduling Problem Authors: MIURA Hidetoshi and KASHIWAGI Shinya |
| | Shipping Environment Analysis on Major Corridors in Southeast Asia Authors: WATANABE Daisuke, MATSUI Hajime and MOMOTA Daisuke |
| Xihai hall on the 2nd floor 二楼西海厅 | Multi-Objective Linear Programming for Large Scale Energy Optimization Authors: LAHDELMA Risto, WANG Haichao, ABDOLLAHI Elnaz and SALMINEN Pekka |

C2: Industrial Engineering

Chair: WANG Jian

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| Saturday, Oct. 12 15:20-16:20 | The Influence of Product Diversification on R&D Strategy Authors: WANG Jian and ZHANG Chi |
| | A Study on Recommender System Considering Diversity of Items Based on LDA Authors: ZHANG Zhiying, HOSAKA Taiju, YAMASHITA Haruka and GOTO Masayuki |
| Nanhai hall on the 2nd floor 二楼南海厅 | A Study on Parts Preparation for Engineer-to-Order Production Authors: WU Yuchen and WENG Jiahua |
| | A Study on Order-Receiving Plan Applying Production Seat System for Sales Staff in Engineer-to-Order Manufactory Authors: FAN Xiaofu and WENG Jiahua |

A3: Management Science

Chair: YAN Xihong

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| Saturday, Oct. 12 16:30-17:30 | Matrix Recovery with Incomplete Samples via Non-Monotone Alternating Directional Method Authors: WANG Chuanlong, YAN Xihong and WANG Junxia |
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| Beihai hall on the 2nd floor 二楼北海厅 | Research on the Construction of Classification Management System of Common Colleges and Universities Author: JI Keyan |
| | Research on Ecosystem for Increasing Economic and Social Value Authors: SHIDARA Harumi and ISHIOKA Masaru |
| | Research on Organizational Structure to Respond to Market Environment and Create Sustainable Innovation Authors: TAKITA Kohei and ISHIOKA Masaru |
| B3: Green Management | |
| Chair: SUZUKI Masaaki | |
| Saturday, Oct. 12 16:30-17:30 Xihai hall on the 2nd floor 二楼西海厅 | Power-Plant Resilience: Trial Evaluation of Response Reliability During Fast-Reactor Accident Author: SUZUKI Masaaki |
| | Negawatt Planning via Stochastic Programming Authors: YAMADA Masahiro, SHIINA Takayuki, SATO Tetsuya and TOKORO Kenichi |
| | Optimal Operation Plan for Energy Storage Equipment in a Residential Building Authors: KIMATA Shota, SHIINA Takayuki, SATO Tetsuya and TOKORO Kenichi |
| | Application of Fine Bubble Technology and Environmental Improvement Author: NAKAHARA Yukiko |
| C3: OR | |
| Chair: YUE Wuyi | |
| Saturday, Oct. 12 16:30-17:30 Nanhai hall on the 2nd floor 二楼南海厅 | Bilevel Joint Optimization for Product Family Modular Architecture Considering Eco Sustainable Design Author: MA Yujie |
| | Cost Minimizing Target Setting over the Whole Efficient Frontier in Data Envelopment Analysis Authors: WANG Xu and HASUIKE Takashi |
| | A QA System Model Considering Relationship of Topics between Question/Answer Documents Authors: OKAWA Junya, GENDO Kumoi and GOTO Masayuki |
| | A Study on Accuracy of Causal Effects Estimation for Unknown True Causal Structure Authors: INOUE Kazuma, KUMOI Gendo, HORII Shunsuke, SUKO Tota and GOTO Masayuki |
| Poster Session | |
| Saturday, Oct. 12 17:30-18:30 | A Queueing Inventory System with Random Order Size and Server's Vacations Authors: ZHANG Yuying, YUE Dequan and YUE Wuyi |
| | Financing Risk Assessment of PPP Transportation Infrastructure Project - Taking XH Expressway Project as Example Authors: DONG Wei, RAN Jianjun and LU Tiejun |

| A4: Modern Logistics 3 (Workshop) | |
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| Chair: KAKU Ikou | |
| Sunday, Oct. 13 | LaaS (Logistics as a Service), MaaS(Mobility as a Service) and EV(Electric Vehicles) Author: KAKU Ikou |
| 8:40-9:40 | Optimal Pricing in Mass Customization Supply Chains with Risk-Averse Agents and Retail Competition Authors: SUN Qi and MA Cheng |
| Beihai hall on the 2nd floor 二楼北海厅 | Using Baidu Search Query Data and Economic Indexes for Cruise Tourism Demand Forecasting Authors: XIE Gang and QIAN Yatong |
| B4: Urban Operations Research 3 (Workshop) | |
| Chair: YOSHIKAWA Tohru | |
| Sunday, Oct. 13 | Comparison of the Indexes to Evaluate Buildings for Public Facilities with Distance Decay of the Utilization Ratio in Sequential Building Removal Process Author: YOSHIKAWA Tohru |
| 8:40-9:40 | The Social Cost of Carbon Dioxide Emissions in LNG Transportation Authors: KAI Takahiro, ITO Mari, TAKASHIMA Ryuta and TORIUMI Shigeki |
| Xihai hall on the 2nd floor 二楼西海厅 | Spatio-Temporal Effects of Shadow by Skyscrapers on Sunshine Environment in Urban Area Authors: WATANABE Hiroko, HONMA Yudai, HONMA Kentaro and IMAI Kotaro |
| C4: System Engineering | |
| Chair: FU Jing | |
| Sunday, Oct. 13 | Experimental Study on the Existence of Pure Nash Equilibrium in Information Diffusion Game with Strict Preferences Authors: FUJII Hideyuki, FU Jing and SONG Yu |
| 8:40-9:40 | Development of Operation Verification System Using Image Processing in Multi-Process Handling Tasks Authors: MATSUDA Yoshihiro, ARAKAWA Masahiro and SUSUKI Wataru |
| Nanhai hall on the 2nd floor 二楼南海厅 | An Analytical Model of Web Sites Relationship Based on Browsing History Embedding Considering Page Transitions Authors: HOSAKA Taiju, YAMASHITA Haruka and GOTO Masayuki |
| | An Analytical Model of Exhibition Price Change Effects on Second-Hand Fashion EC Site Authors: KANAZAWA Shimpei, YANG Tianxiang and GOTO Masayuki |
| A5: Modern Logistics 4 (Workshop) | |
| Chair: MA Cheng | |
| Sunday, Oct. 13 | Search-Based Advertising Auctions with Choice-Based Budget Constraint Authors: MA Cheng and SUN Qi |
| 9:50-10:50 | A Dynamic Location-Allocation Model for Casualty Triage Planning during Catastrophic Radiological Incidents Authors: WANG Qingyi, HUANG Edward, LI Mingzhe and NIE Xiaofeng |

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| Beihai hall on the 2nd floor 二楼北海厅 | An Optimal Assignment with Discrete Target Variable of Processing Time in Reset Limited-Cycle Multiple Production Periods Authors: ZHAO Xiaowen, YAMAMOTO Hisashi and SUN Jing |
| B5: Urban Operations Research 4 (Workshop) | |
| Chair: ITO Mari | |
| Sunday, Oct. 13 | Shift Scheduling to Propose Improvement Plans for Staff Shortages: A Case Study of a Foster Home in Japan Authors: ITO Mari and HIRAO Masatake |
| 9:50-10:50 | A Problem of Assigning Students to Nursery Schools Authors: PITTAYARUNGSARIT Jinnipa, SONG Yu and LI Cheng |
| Xihai hall on the 2nd floor 二楼西海厅 | Estimating Errors According to Population Size in Multi-Regional Population Projection Author: KOTO Hiroshi |
| C5: Marketing | |
| Chair: KUMAGAI Satoshi | |
| Sunday, Oct. 13 | User Distribution in Online-to-Offline Marketing: Schematic Validation of Hypothesis in Innovator Theory Authors: MATSUMOTO Kenyuu, KURAMOTO Kaoru, KURIHARA Yosuke, MATSUMOTO Toshiyuki, KUMAGAI Satoshi and IWATA Ryo |
| 9:50-10:50 | Information Diffusion Model for Speed Oriented Marketing and Cost Oriented Marketing- Evaluation of Marketing Using an Influencer - Marketing Elasticity - Authors: EHARA Taisuke, KURAMOTO Kaoru, KURIHARA Yosuke, MATSUMOTO Toshiyuki and KUMAGAI Satoshi |
| Nanhai hall on the 2nd floor 二楼南海厅 | Study on Item Recommendation Considering Store Information in Cyber Mall Authors: OHORI Yuichi, GOTO Masayuki and YAMASHITA Haruka |
| | Conceptual Marketing Model Based on Brand Purpose with Social Value Authors: KIHARA Yuta and ISHIOKA Masaru |

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| A6: Business Management 1 | |
| Chair: HIGUCHI Yoshiyuki | |
| Sunday, Oct. 13 | Mutual Use of Secondary Public Traffic by Tourists and Residents and Economic Ripple Effect on Depopulated Areas Authors: HIGUCHI Yoshiyuki and NUNOMIYA Hiraku |
| 11:00-12:30 | Analysis of the 14th Goal of SDGs Based on Value-Focused Thinking Authors: INAGAWA Takuji, SUZUKI Hiroo and NISHIMOTO Nao |
| | Integrated Operation Planning for Multi-Domestic Enterprises Authors: YAMADA Ryosuke, WENG Jiahua, HUANG Qian, OHMORI Shunichi and YOSHIMOTO Kazuho |
| | Important Variables Selection for Customer Feature Analysis Using Anomaly Detection Method Authors: ARAI Hirotake, KUMOI Gendo and GOTO Masayuki |

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| Beihai hall on the 2nd floor 二楼北海厅 | The Relationship among Tourism Destination Image, Tourist Satisfaction and Tourist Loyalty Based on Positive Emotion Authors: ZHANG Tao, ZHANG Wenkun, ZHANG Yan and ZUO Xiaowen |
| | The Quality of Integrated Report Authors: SEKIGUCHI Masahiro and FENG Ling |
| B6: Seru & Supply Chain Management | |
| Chair: DONG Yanwen | |
| Sunday, Oct. 13 11:00-12:30 Xihai hall on the 2nd floor 二楼西海厅 | Identifying Workers with Low Aptitude for Cell Production as Class Imbalance Problem Author: DONG Yanwen |
| | Mining the Characteristics of Seru Production System by LDA Authors: ZHANG Xinyi and KAKU Ikou |
| | Supplier Selection and Order Allocation under Supply Disruption Risks Authors: SHAO Xianghe, WENG Jiahua, HUANG Qian, OHMORI Shunichi and YOSHIMOTO Kazuho |
| | Reuse and Recycle in Circular Fashion Supply Chains Author: WANG Xiaohua |
| | Proposal of Design Method of Operation Process and Layout on Cell Production Using ICT and IoT System Authors: SUZUKI Wataru, ARAKAWA Masahiro and MATSUDA Yoshihiro |
| | Seru Production Systems within a Quick Response Supply Chain Environment Author: YIN Yong |
| C6: AI & Decision Making | |
| Chair: SONG Yu | |
| Sunday, Oct. 13 11:00-12:30 Nanhai hall on the 2nd floor 二楼南海厅 | Forecasting Individual Stock Price Movements Using LSTM Neural Network Authors: LI Cheng, SONG Yu, PITTAYARUNGSARIT Jinnipa and FU Jing |
| | Can Bagging Improve Trading Performance of Exchange Rates? The LSTM Touch at Work Authors: SUN Shaolong, WANG Shouyang and WEI Yunjie |
| | Conflict Analysis - Modeling Dynamics of Underlying Momentum in Decision Making Author: KATO Yukiko |
| | Cost Analysis in Manufacturing Industry by a Learning Model of Outsourcing Author: KAMBARA Hirotoshi |
| | Factorization Machines Considering the Latent Characteristics Behind Target Data Authors: SUGISAKI Tomoya, MIKAWA Kenta and GOTO Masayuki |
| | A Study of Out of Manifold Data Augmentation in Deep Neural Network Authors: FUJINAMI Hideki, KUMOI Gendo and GOTO Masayuki |

| A7: Business Management 2 (Closing Session) | |
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| Chair: GOTO Masayuki | |
| Monday, Oct. 14 8:40-9:40 Beihai hall on the 2nd floor 二楼北海厅 | A Study on Customer Purchase Behavior Analysis Based on Hidden Topic Markov Models Authors: HOTODA Mio, KUMOI Gendo and GOTO Masayuki |
| | An Analytical Model to Activate Non-Royal Users of Multifunctional Credit Card Authors: SEKO Yuto, KUMOI Gendo, GOTO Masayuki and TACHIBANA Tetsuya |
| | An Analytical Model of Consumers Purchasing Behavior Considering the Variety of Products Authors: YASUI Kazuki, MIKAWA Kenta and GOTO Masayuki |
| | An Analysis Method Based on Customer Definition for Detecting Latent Customer Purchase Behavior Focused on Membership Stage Growth Authors: YANG Tianxiang, YAMASHITA Haruka and GOTO Masayuki |