

Technical Sessions

March 25, Friday (Beijing Time)

13:00 – 15:00 A Room

A1: International Trade and Management Decision

Chair: Prof. Pengliang Qiao (Guangzhou College of Technology and Business, China)

A1-1

ISIKM2022-002

An Analysis of Economics Growth in Low Income Countries

Fei Zhao (China)

A1-2

ISIKM2022-003

Demand System Analysis for Monetary Assets in Australia

Fei Zhao (China)

A1-3

ISIKM2022-007

Research on the Cross-Level Impact of Paternalistic Leadership on Employees' Innovative Performance

Bo Lin and Junbo Ma (China)*

A1-4

ISIKM2022-008

The Impact of College Students' Social Anxiety on Interpersonal Communication Skills:
A Moderated Mediation Model

Junbo Ma and Bo Lin (China)*

A1-5

ISIKM2022-021

How Information Asymmetric Influences Online Loan within Mobile-Commerce Context

Runfa Li, Qinlin Zhang, Xiaobing Yao and Tsai-Fa (TF) Yen (China)*

A1-6

ISIKM2022-033

Income Gap, Independent Innovation and Domestic Value Added Ratio of Firms' Export

Liu Yuan (China)

A1-7

ISIKM2022-039

Research on the Construction of Delay Distribution Model of Logistics Nodes Affected
by Emergencies – Taking E-Commerce Logistics Data as an Example

Pengliang Qiao (China)

March 25, Friday (Beijing Time)

13:00 – 15:00 B Room

B1: Management and Engineering

Chair: Dr. Huipo Wang (Hebei University of Engineering, China)

B1-1

ISIKM2022-SS10-01

The Impact of Perceived Organizational Support and Psychological Capital on Turnover Intention:
Based on the Survey of Teachers in Guangxi Private Colleges and Universities

Yumei Ma, Toh Pei Sung and Yongqiang Xu (China)*

B1-2

ISIKM2022-SS10-02

The Influence of Financial Knowledge on Financial Behavior of Rural Breadwinners: The Mediating
Effect of Value Perception

Yongqiang Xu, Kun Wang, Thien Sang Lim and Yumei Ma (China)*

B1-3

ISIKM2022-SS10-03

Regional Difference Analysis of the Impact of Port Adjacency on the High-Quality Development
of Urban Economy in Hebei Province

Huipo Wang, Limei Wang and Xuexue Zhang (China)*

B1-4

ISIKM2022-SS10-04

Research on Development Capacity of Farmers from the Perspective of Spatial Structure

Lei Zhang and Weiwei Ma (China)*

B1-5

ISIKM2022-SS10-05

A GAS-Vine Copula-Based Study on the Risk Correlation of BRICS Stock Markets
under the COVID-19

Yueqiang Zhang, Guanghui Han and Panpan Liu (China)*

B1-6

ISIKM2022-004

Location Allocation Collaborative Optimization of Emergency Temporary Distribution Center
under Uncertainties

Xiangyang Ren and Juan Tan (China)*

March 25, Friday (Beijing Time)

13:00 – 15:00 C Room

C1: Smart Technology for Industry

Chair: Prof. Tai-Woo Chang (Kyonggi University, Korea)

C1-1

ISIKM2022-SS12-01

Conceptual Semantic Network Knowledge Representation for Human-Robot Task Assignment and Execution in Mold Assembly

Yee Yeng Liau and Kwangyeol Ryu (Korea)*

C1-2

ISIKM2022-SS12-02

Pick-Up Service of End-of-Life Consumer Electronics Using CNN Based Image Recognition Model

Hyunsoo Kim, Jinho Seo, Junwoo Lim, Jongseong Jang, Soonki Hong and Inseong Hwang (Korea)*

C1-3

ISIKM2022-SS12-03

A Multi-Step Multivariate LSTM-Based Model for Quality Prediction of Melting Process

Thi Thu Huyen Vu and Tai-Woo Chang (Korea)*

C1-4

ISIKM2022-SS12-04

A Study on the Identification Method of Strawberry Leaf Pest Infection Using Deep Learning

Dongsoo Kim and Haram Kim (Korea)*

C1-5

ISIKM2022-SS12-05

CNN-Based Prediction of a Quality Indicator in Mixing Processes of Rubber Product

Sujeong Son and Kwangyeol Ryu (Korea)*

C1-6

ISIKM2022-SS12-06

Prediction of Refrigeration Vehicle Environment for Optimization of Cold-Chain Logistics

Youngtae Park, Siku Kim and Kwangyeol Ryu (Korea)*

C1-7

ISIKM2022-034

Design and Implementation of Intelligent Evaluation System Based on Pattern Recognition for Microteaching Skills Training

Jiangbo Tang and Jin Zhang (China)*

C1-8

ISIKM2022-035

Prediction Algorithm of Industry Rotation Based on Attention LSTM Model

Jianming Li, Gewei Guo and Xiangpei Hu (China)*

March 25, Friday (Beijing Time)

15:20 – 17:20 A Room

A2: International Marketing

Chair: Dr. Zhenfeng Cheng (Guangzhou College of Technology and Business, China)

A2-1

ISIKM2022-016

Promoting Visitors' Destination Relationship by Live Streaming in Wellness and Health Tourism Context

Qinglin Zhang, Runfa Li, Jian-Lin Xiong and Tsai-Fa (TF) Yen (China)*

A2-2

ISIKM2022-022

Measuring Perceived Control in Human-Robot Interaction

Xia Liao, Ximing Li, Zhenfeng Cheng and Yunying Yang (China)*

A2-3

ISIKM2022-041

How Do Relationship Marketing Activities Contribute to Customer Citizenship Behavior in the Context of Cross-Border E-Commerce?

Zhenfeng Cheng and Xin Chen (China)*

A2-4

ISIKM2022-042

Taking Pets on Vacations: Investigate How Expectations Influence Pet Owners' Purchase Intention on Accommodation When Travelling with Pets

Jiawei Shao, Yu-Hsuan Huang, Xia Liao and Yuting Yang (China)*

A2-5

ISIKM2022-045

Impact of Live Broadcasting on Regional Brand Equity of Agricultural Products

Ximing Li, Xiaoxian Jin, Zhenfeng Cheng and Xia Liao (China)*

A2-6

ISIKM2022-050

The Impact of Corporate Charitable Donation on Consumer Purchase Intention under COVID-19

Xiaoying Zhang, Jiaping Xing and Fang Jia (China)*

March 25, Friday (Beijing Time)

15:20 – 17:20 B Room

B2: Intelligent Decision Support Technologies and Methods

Chair: Dr. Yonggang Li (Dalian University of Technology, China)

B2-1

ISIKM2022-SS02-01

Strategies Based on the Focus Point in an Online Vickrey Auction with Buyout Price

Yonggang Li, Linlin An, Ruimin Wang, Xinru Shi and Xiangpei Hu (China)*

B2-2

ISIKM2022-SS02-02

A Pull Order Fulfillment Method Combining JIT with Group Technology for Online Supermarket

Yanxin Wang, Tingli Wang, Yueyue Zhao and Minfang Huang (China)*

B2-3

ISIKM2022-SS02-03

A Blockchain-Enabled Peer-to-Peer Sharing System for Localized Refrigerated Warehouses in China's Rural Areas

Kaiwen Jia, Mu Du and Xiangpei Hu (China)*

B2-4

ISIKM2022-SS02-04

When Do Consumers Buy during Online Promotions? A Theoretical and Empirical Investigation

Tao Zhu, Xiangpei Hu, Zhengrui Jiang and Cheng Nie (China)*

B2-5

ISIKM2022-SS02-05

Collaborative Optimization of Sorting Resources in Fresh Agricultural Product Supply Chain Based on Blockchain

Di Wang and Lijun Sun (China)*

B2-6

ISIKM2022-SS02-06

Bundling Decisions for Online Supermarkets: A Data Mining and Optimization Approach

Yan Fang, Rui Wang and Mingyue Guo (China)*

B2-7

ISIKM2022-SS02-07

Retailer's Pricing Strategy Considering Consumer Inertia Behavior under Advancing Sale Mode

Wenjuan Wang, Da Yu, Sihang Sun and Ran Bi (China)*

B2-8

ISIKM2022-SS02-08

Research on Time-Influenced Perceptual Trust Fusion Model in Internet plus Medical Health Service

Jin Yin and Boyu Zhang (China)*

March 25, Friday (Beijing Time)

15:20 – 17:20 C Room

C2: Intelligent Data Analytics

Chair: Prof. Jaehun Park (Changwon National University, Korea)

C2-1

ISIKM2022-SS08-01

The Expanding Role of Metaverse Platform in College Education

Inhye Lee, Youl-Moon Sung and Taioun Kim (Korea)*

C2-2

ISIKM2022-SS08-02

Dynamic Design for Collaborative Delivery Services

Muzaffar Makhmudov, Ki Ho Chung, Friska Natalia and Chang Seong Ko (Korea)*

C2-3

ISIKM2022-SS08-03

Service Quality Level Evaluation by Online Review Mining: A Case Study of International Airports

Raphael Gonda, Minyoung Kim and Jaehun Park (Korea)*

C2-4

ISIKM2022-SS08-04

Single Machine Scheduling with the Minimum Total Stretch

Jang Rae Lee and Suk-Hun Yoon (Korea)*

C2-5

ISIKM2022-SS08-05

A Study for Online Learning Method Using LSTM

Chanho Park and Hyerim Bae (Korea)*

C2-6

ISIKM2022-SS08-06

Personal Data Privacy Protection Using Process Mining: Focused on a General Hospital Case

Bu-Yong Choi and Nam-Wook Cho (Korea)*

March 26, Saturday (Beijing Time)

10:00 – 12:00 A Room

A3: Green Economy and Innovation

Chair: Dr. Bo Lin (Guangzhou College of Technology and Business, China)

A3-1

ISIKM2022-009

Research on the Deep Integration Mode of Industry & Education in Guangzhou Airport Economic Zone

Sumei Zeng (China)

A3-2

ISIKM2022-011

Green Port Construction Path in the Context of Dual Carbon Objective: A Corpus-Based Empirical Modelling

Yucong You and Luxia Yi (China)*

A3-3

ISIKM2022-017

Research on the Relationship between Port Logistics and Regional Economy in Pearl River Delta – An Empirical Analysis Based on PVAR Model

Jie Tang and Bo Lin (China)*

A3-4

ISIKM2022-031

Impact of Port-City Coordination upon Hinterland Economy in Pearl River Delta

Bo Lin and Jie Tang (China)*

A3-5

ISIKM2022-036

Research on Innovation Strategy of Knowledge Management System of Commercial Banks Based on Employee Tacit Knowledge Sharing

Baosheng Xie and Intan Maizura (China)*

A3-6

ISIKM2022-055

Study on Influencing Factors of Acceptance and Usage of Knowledge Management Information Platform: UTAUT2 Model Based on “Learn More to Make Your Country Stronger” Platform

Peng Huang and Weijiang Wang (China)*

A3-7

ISIKM2022-056

Advancement from “Integrated Window” to “Information Hub”: A Study on “One-Stop Service Centers” at Colleges and Universities from the Perspective of Three All-Round Education

Peng Huang and Miaoqiong Wu (China)*

March 26, Saturday (Beijing Time)

10:00 – 12:00 B Room

B3: Intelligent Systems and Supply Chain

Chair: Prof. Haiyan Wang (Southeast University, China)

B3-1

ISIKM2022-028

Mechanism Design of Prevention Incentive on Chronic Disease under Information Interdependence

Huan Sun and Haiyan Wang (China)*

B3-2

ISIKM2022-029

Dynamic Health Information Exchange Behavior between Hospitals: A Differential Game Approach

Xuxun Lin (China)

B3-3

ISIKM2022-030

Decision Bias in the Newsvendor Problem: Diverse Voice on Social Media

Zhiru Juan and Haiyan Wang (China)*

B3-4

ISIKM2022-047

Research on a Data Management System of Internet of Medical Things Based on Blockchain Technology

Tingyu Xu, Guanya Zhu, Zhongmin Wang, Haiyan Wang, Shengnan Sun and Lindu Zhao (China)*

B3-5

ISIKM2022-SS06-01

It's Showtime! Livestreaming E-Commerce and the Optimal Insertion Policy of Promotion

Wenpo Huang, Wei Jiang, Xiaowei Mei and Lai Wei (China)*

B3-6

ISIKM2022-SS06-02

Fast and Efficient Participant Selection for Federated Learning

Zhongliang Zhang, Qingjun Fei, Wei Jiang and Zhiqiang (Eric) Zheng (China)*

B3-7

ISIKM2022-SS06-03

Blockchain-Enabled Data Sharing in Supply Chain

Zhiyuan Wang and Wei Jiang (China)*

B3-8

ISIKM2022-SS06-04

Trade-Off between Algorithmic Fairness and Performance in Selective Label Problems

Zhe Shen, Eric Zheng and Wei Jiang (China)*

March 26, Saturday (Beijing Time)

10:00 – 12:00 C Room

C3: Artificial Intelligence (AI) and Imaging on Information and Knowledge Management

Chairs: Prof. Thi Thi Zin (University of Miyazaki, Japan)

Prof. Hiromitsu Hama (Osaka City University, Japan)

C3-1

ISIKM2022-SS09-01

Gama-Markov Branching Process Approach to the Novel Coronavirus (COVID-19) Pandemic

Thi Thi Zin, Pyke Tin and Hiromitsu Hama (Japan)*

C3-2

ISIKM2022-SS09-02

Black Cow Localization and Tracking with YOLOv5 and Deep SORT

Cho Cho Aye, Thi Thi Zin and Ikuo Kobayashi (Japan)*

C3-3

ISIKM2022-SS09-03

Cattle Face Identification with Ear Tags Using YOLOv5s Model

Wai Hnin Eaindrar Mg and Thi Thi Zin (Japan)*

C3-4

ISIKM2022-SS09-04

Predicting Calving Time of Dairy Cows by Autoregressive Integrated Moving Average (ARIMA) Model and Double Exponential Smoothing (DES) Model

Tunn Cho Lwin, Thi Thi Zin and Pyke Tin (Japan)*

C3-5

ISIKM2022-037

Simulation Study of a Multiple-Input Single-Output AC/DC Converter for 13.56MHz Wireless Power Transfer Systems

Yoshiki Kino, Daigo Nakashima, Takaaki Ishibashi and Kei Eguchi (Japan)*

C3-6

ISIKM2022-044

Accuracy Improvement of Thermography Image Recognition for Contactless Input Device

Wataru Chidiwa, Noritaka Shigei and Hiromi Miyajima (Japan)*

C3-7

ISIKM2022-048

Gait Phase Detection by Knee Sensor Signal Using Neural Network

Yutaro Miyata, Shigeyoshi Nakajima, Mitsuhiro Ikebuchi, Hiroaki Nakamura, Kiichi Seguchi Shouta Takemoto, Ryoichi Kato, Shinji Imakubo and Tamotsu Nakatsuch (Japan)*

C3-8

ISIKM2022-052

Detection of Adenoid Hypertrophy and Nasal Obstruction Using Mel-Filter Bank

Hideaki Taketani, Masashi Nakayama, Shunsuke Ishimitsu, Yuko Muto, Shinichi Negishi Kaori Ishii, Kazutaka Kasai and Satoshi Horihata (Japan)*

March 26, Saturday (Beijing Time)

13:00 – 15:00 A Room

A4: Knowledge Innovation in the Industry

Chair: Dr. Zhiwei Guo (Chongqing Technology and Business University, China)

A4-1

ISIKM2022-SS01-02

Partner Selection Strategy of Knowledge Supply Chain Based on Knowledge Collaboration
Fengting Zhang, Jiafu Su, Dan Wang and Hongyuan Hu (China)*

A4-2

ISIKM2022-SS01-03

Risk Evaluation of E-Commerce Live Broadcast Platform Based on Multi-Criteria Group
Decision-Making
Dan Wang, Jiafu Su, Fengting Zhang and Hongyuan Hu (China)*

A4-3

ISIKM2022-SS01-04

Online Learning-Empowered Smart Management for A²O Process in Sewage Treatment
Processes
Zhiwei Guo, Yuqi Fan, Jianhui Wang and Yu Shen (China)*

A4-4

ISIKM2022-SS01-05

An Efficient Electronic Chip Detection Method with Attentional Feature Fusion and Feature
Pyramid Network
Hao Sun and Huiyan Zhang (China)*

A4-5

ISIKM2022-SS01-08

Aerodynamic Optimization Design of Airfoil Based on Integrated Expression Theory and Shape
Function
Hao Ju and Xudong Wang (China)*

A4-6

ISIKM2022-SS01-09

Dynamic Research of the Gear Pair Considering Lubrication Behaviours
Zufeng Li, Wengang Ao, Zongmin Liu and Huiyan Zhang (China)*

A4-7

ISIKM2022-SS01-11

Introduction Strategies of Private Brands of Agri-Products Considering Consumer Ecological
Preference
Shan Chen, Yuelin Duan and Jiafu Su (China)*

A4-8

ISIKM2022-053

Channel Identification of Band Limited Communication System with Multi-Path Interferences
Lianming Sun, Jianing Liu and Junbiao Zeng (Japan)*

March 26, Saturday (Beijing Time)

13:00 – 15:00 B Room

B4: Digital Management

Chair: Prof. Shouliang Zhou (Dalian University, China)

B4-1

ISIKM2022-SS13-01

A Review on the Relationship between Corporate Social Responsibility and Green Innovation
Jihui Sun and Di Huang (China)*

B4-2

ISIKM2022-SS13-02

Nature of Property Rights, Management Capacity and Investment Efficiency
Hongxia Zhang and Peng Tan (China)*

B4-3

ISIKM2022-SS13-04

Evaluation Method of Comprehensive Competitiveness of High-Tech Industry Based on Knowledge Element
Yawen Hu, Lin Sun and Yingying Song (China)*

B4-4

ISIKM2022-SS13-05

Empirical Analysis of Tourism Efficiency Measurement in Northern China Based on DEA-Malmquist Model
Weiling Su and Yanmin Zhou (China)*

B4-5

ISIKM2022-SS13-06

Research on Pricing Decision of Third-Party Recycling Closed-Loop Supply Chain Based on Recycling Quality and CSR
Wensheng Yang and Anxin Hu (China)*

B4-6

ISIKM2022-SS13-07

The Research on Innovation Ability of Tourism Industry Cluster in Liaoning Province Based on Fuzzy Comprehensive Evaluation Model
Weiling Su and Jiejie Ji (China)*

B4-7

ISIKM2022-010

Impact of Novel Coronavirus Epidemic on Accounting and Implication of Smart Accounting Development
Ran Liu and Lantian Jiang (China)*

March 26, Saturday (Beijing Time)

13:00 – 15:00 C Room

C4: Computation Intelligence

Chairs: Dr. Olarik Surinta and Dr. Pornntiwa Pawara (Mahasarakham University, Thailand)

C4-1

ISIKM2022-SS07-01

Aspect-Based Sentiment Classification for Customer Hotel Reviews

Chumsak Sribunruang, Thananchai Khamket, Jatuphum Juanchaiyaphum
Jantima Polpinij and Khanista Namee (Thailand)*

C4-2

ISIKM2022-SS07-02

Comparative Study for Data Normalization Methods on Predicting Cryptocurrency Price

Jantima Polpinij, Bancha Luaphol and Khanista Namee (Thailand)*

C4-3

ISIKM2022-SS07-03

Effective Data Resampling and Meta-Learning Convolutional Neural Networks for Diabetic Retinopathy Recognition

Prem Enkvetchakul, Olarik Surinta and Sangdaow Noppitak (Thailand)*

C4-4

ISIKM2022-SS07-04

Fusion Convolutional Recurrent Neural Networks for Thai and English Video Subtitle Recognition

Sarayut Gonwirat, Olarik Surinta and Pornntiwa Pawara (Thailand)*

C4-5

ISIKM2022-SS07-05

Dynamic Fingerspelling Recognition from Video Using Deep Learning Approach: From Detection to Recognition

Siriwivat Lata, Sirawan Phiphitphatphaisit, Sarayut Gonwirat and Olarik Surinta (Thailand)*

C4-6

ISIKM2022-SS07-06

Fusion Lightweight Convolutional Neural Networks and Sequence Learning Architectures for Violence Classification

Wimolsree Getsopon and Olarik Surinta (Thailand)*

C4-7

ISIKM2022-SS07-07

Fungal Disease Detection System for Fairy Mushrooms Using Deep Learning, Robotics and IoT for Real Smart Farming

Patcharee Sriputta and Suchart Khummanee (Thailand)*

C4-8

ISIKM2022-SS07-09

The Performance Improvement of Thai Traffic Sign Detection

Paitoon Thipsanthai, Rapeeporn Chamchong and Panida Songram (Thailand)*

March 26, Saturday (Beijing Time)

15:20 – 16:50 A Room

A5: Control Theory and Applications

Chair: Dr. Huiyan Zhang (Chongqing Technology and Business University, China)

A5-1

ISIKM2022-SS01-01

Adaptive Neural Security Control for Networked Singular Systems under Deception Attacks

Huiyan Zhang, Wengang Ao and Wudhichai Assawinchaichote (China)*

A5-2

ISIKM2022-SS01-06

Event-Triggered Control for Nonlinear Networked Control Systems with External Disturbance

Guitong Li and Rongni Yang (China)*

A5-3

ISIKM2022-SS01-07

Fault-Tolerant Control for Continuous-Time Markov Jump Piecewise Affine Systems with Reconfigurable Control Strategy

Nuo Xu and Yanzheng Zhu (China)*

A5-4

ISIKM2022-SS01-10

Intelligent Vehicle Path Planning and Tracking Based on Multi-Segment Curve Splicing

Xueshuai Qin and Xudong Wang (China)*

A5-5

ISIKM2022-038

Resilient Event-Triggered Model Predictive Control for Cyber Physical Systems under Asynchronous DoS Attack

Daotong Zhang, Peng Shi and Huiyan Zhang (Australia)*

A5-6

ISIKM2022-043

Containment Control of Heterogeneous Multi-Agent Systems with Signed Networks under Denial-of-Service Attacks

Yize Yang, Peng Shi and Huiyan Zhang (Australia)*

March 26, Saturday (Beijing Time)

15:20 – 16:50 B Room

B5: Internet Platform

Chair: Dr. Shuang Zhao (Dalian University, China)

B5-1

ISIKM2022-SS03-02

Connotation Construction and Experience Enlightenment of Innovative Education in Colleges and Universities – Case Studies from Three Universities in China

Shuang Wang, Zenghui Liu and Yafei Luo (China)*

B5-2

ISIKM2022-SS03-04

A Research Review and Prospects on Artificial Intelligent Agent Empathy

Xuyan Sun and Hui Guan (China)*

B5-3

ISIKM2022-SS03-05

The Impact of Superior Developmental Feedback on Employees' Innovative Behavior: A Study of Immediate and Delayed Effects

Shuang Zhao and Mengying Ye (China)*

B5-4

ISIKM2022-SS03-06

Research on the New Retail Ecosystem Based on Ecological Theory

Shuhui Zhang and Hui Guan (China)*

B5-5

ISIKM2022-SS03-07

Research on Network Penetration, Logistics Quality and New Retail Development from Provincial Perspective

Peng Wang (China)

March 26, Saturday (Beijing Time)

15:20 – 16:50 C Room

C5: Digital Agriculture Operations Management

Chair: Prof. Junhu Ruan (Northwest A&F University, China)

C5-1

ISIKM2022-SS05-01

Research on the Influencing Factors of Willingness of Facility Vegetable Growers to Participate in the IoT E-Commerce

Yuhu Liang, Xiaochun Feng, Ruize Ma and Junhu Ruan (China)*

C5-2

ISIKM2022-SS05-02

Research on Task Allocation and Path Planning of Plant Protection Unmanned Aerial Vehicle (UAV) in Platform Mode

Mengtian Gao, Jiliang Han, Xiaochun Feng, Na Lin and Junhu Ruan (China)*

C5-3

ISIKM2022-SS05-03

An Integrative Decision-Making Model for Supply Chains of Fresh Agricultural Products in Digital Agriculture

Jiliang Han, Lin Li, Zilai Sun, Xiaochun Feng, Na Lin and Junhu Ruan (China)*

C5-4

ISIKM2022-SS05-04

Is the Smallholder Consciousness at Work? IoT Based E-Commerce Adoption Intention in Farmers Based on Evolutionary Game Theory: Evidence from Shaanxi China

Ruize Ma, Xuping Wang and Junhu Ruan (China)*

C5-5

ISIKM2022-SS05-05

A Data-Driven Approach for Evapotranspiration Estimation of Fruit Tree in Agricultural Internet of Things

Xuping Wang, Tianteng Wang, Yiping Jiang, Zilai Sun, Yuhu Liang, Xiangpei Hu, Hao Li Yan Shi and Junhu Ruan (China)*