RS1 - Urban Science and Systems (I),(II) at GSCS & ICUI 2025

Date: 8 August 2025 (Friday)
Venue: Room Z406, Block Z, PolyU

09:00 - 09:15	**Designing the Future Urban Sky: A Multi-Objective Approach to Vertiport Location in a Topologically-Enabled Transport Network** Author(s): Si Qiao, Jinfeng Xie, Anthony Gar-On Yeh
09:15 - 09:30	**Research on Evaluation System and Governance Strategies for New Smart Urban Areas Aimed at High-Quality Development** Author(s): Zhan Qinmin, Qiu Ruihan, Liu Huimin
09:30 - 09:45	**How does the Urban Environment Shape Noise Perception? Evidence from a Longitudinal Study in New York City** Author(s): Mengjie Gong, Pengfei Chen, Jianxiao Liu, Izzy Yi Jian, Rui Xin
09:45 - 10:00	**City-Scale Carpark Photovoltaic Charging of Electric Vehicles: Forecasting of Future Charging Demand Hotspots** Author(s): Yantong Wang, Rui Zhu, Linlin You, Yumin Chen, Yanqing Xu, Zheng Qin
10:00 - 10:15	**Urban Functions and Urban Vitality: Spatiotemporal Variations under Different Measurement Approaches** Author(s): Xiaoxiao Liu and Zhengdong Huang
10:15 - 10:30	**Design and Realization of Yangtze River Delta Integrated Geographic Information Platform** Author(s): Wei Wang, Wenting Deng, Chengren Li
10:30 - 10:45	Coffee Break
10:45 - 11:00	**Spatial Inequality in England's Care Home Distribution: A Multi-Scale Hierarchical Clustering Analysis** Author(s): Sijie Tan, Yijing Li, James Shearer
11:00 - 11:15	**A Study on Extraction and Explanation of Urban Form Factors Influencing Restaurant Operations using the Convolutional Neural Network (CNN) Model** Author(s):Jeyun YANG, Youngsang KWON

11:15 - 11:30	**Hybrid WRF-ML Modeling for Identifying the Inter- and Intra-Microclimate Variability in Shenzhen's Built-up LCZs** Author(s): Wen Liu, Zhengdong Huang, Jiacheng Huang and Renzhong Guo
11:30 - 11:45	**A Refined Inventory Control Model for Dynamic Adjustments of Urban Growth Boundaries** Author(s): Haoying Han and Yicheng Zhao
11:45 - 12:00	**Decoding Urban Thermal Perception and Spatial Responses: An Interpretable Grad-CAM Approach** Author(s): Shiqi Tu, Qingming Zhan, Minghao Liu and Ruihan Qiu
12:00 - 12:15	**Facial Expression Portraiture: An Intelligent Approach for Sound Perception Assessment in Urban Open Spaces** Author(s): Yuxin Yin, Qi Meng and Xuejun Hu
12:15 - 12:30	**Energy, Space, and Society: A Complex Network Analysis of Charging Station and Gas Station Distribution in Guangzhou** Author(s): Hanzhi Zu
12:30 - 12:45	**The Effect of Local Government Investment on Airline Performance in China** Author(s): Chuanyang Zhu, Xiaolong Li and Xiaowen Fu
12:45 - 13:00	**Reinforcement Learning-Based Charging Scheduling for Shared Electric Bus Infrastructure** Author(s):Ziyu Cui, Xiaowen Fu and Huan Jin
13:00 - 14:00	Lunch Break
14:00 - 14:15	**From Prediction to Intervention: A Causal Machine Learning Framework for Urban Science** Author(s): Yuye Zhou and Lu Liang
14:15 - 14:30	**Evaluation of Habitat Quality and Optimisation Strategies of Dalian City Square under the Perspective of Life Health** Author(s): Zhang Yuhang, Gao Jiaji
14:30 - 14:45	**Urban Spatial Composition under Historical Influence: Similarity Analysis of Istanbul and Historically Associated Cities Based on Machine Learning and Image Segmentation** Author(s): Shiqi Dai, Lingkan Wang, Mingyang Sun and Han Tu

14:45 - 15:00	**NSGA-II-based Cost-optimal Design for Renewable Energy Sharing Systems between Urban Buildings via Electric Vehicles** Author(s): Yaxuan Li and Sunliang Cao
15:00 - 15:15	**A Geospatial-Enabled Multidimensional Framework for Livability Evaluation in High-Density Cities: Evidence from Hong Kong** Author(s): Mingzhen Liu and Xiaolin Zhu
15:15 - 15:30	**Impact of Electric Vertical Accessibility Facilities on the Mobility of People with Disabilities: A Case Study in Hong Kong** Author(s): Tian Zeng, Yingying Xu, Dawei Cheng, Anthony Chen and Xintao Liu
15:30 - 15:45	**Exploring the Potential Adoption of Mobility-as-a-Service (MaaS) through Spatial Agent-based Modelling** Author(s): Justin Hayse Chi Wing G Tang, Junbei Liu, Anthony Chen and Chengxiang Zhuge
15:45 - 16:00	**A Modified k-ε Turbulence Model to Better Account for the Buoyancy Effect** Author(s):Hao Wang and Zhang Lin

RS2 - Urban Sensing (I),(II) at GSCS & ICUI 2025

Date: 8 August 2025 (Friday)
Venue: Room Z407, Block Z, PolyU

Time	Presentation
09:00 - 09:15	**Stratified AGB Inversion Driven by DGTHI: Quantifying Topographic Controls on Biomass Prediction Across Tree Species** Author(s): Yihan Zhu, Jiangping Chen, Jianhua Yin, Zilong Qin, Jizhou Chen, Na Jiang, Ke Hou
09:15 - 09:30	**An Enhanced Indoor Positioning Framework using IMU Array and Barometer** Author(s): Chaoliang Wang, Tao Feng, Feifan lin, Shiyu Bai, Shiliang Wang, Yue Yu
09:30 - 09:45	**Comprehensive 3D Mapping of Hong Kong Using Advanced Land Surveying Technologies for Smart City Development: A Case Study in Tseung Kwan O Waterfront Park** Author(s): Yu Chun Leo Yau, Cheuk Ying Siu, Chun Yiu Fung, Yuk Lun Lam, Chi Keung Chan, Man Yee So, Lin Zeng, Zhenwei Zhang
09:45 - 10:00	**A Precise Urban Vehicle Navigation Method Based on 3D Velocity Mamba Constraint** Author(s): Feifan Lin, Qingzhong Cai, Huizheng Yuan, Yue Yu
10:00 - 10:15	**Carbon Reduction Assessment of PV-Assisted Mine Land Reclamation using Deep Learning from Remote Sensing Images** Author(s): Ming Hao, Zhen Zhang, Weiqiang Luo, Min Tan
10:15 - 10:30	**Nighttime Image Dehazing via Retinex Theory and Bright-Dark Channel Priors** Author(s): Xianglei Liu, Yahao Wu, Runjie Wang, Yuhang Liu
10:30 - 10:45	Coffee Break
10:45 - 11:00	**Integrating Social Media Emotion and Aftershock Dynamics into Agent-Based Rumor Modeling: A Case Study of the Yinchuan 102 Earthquake Cluster** Author(s): Minwei Zhao, Cai Wu
11:00 - 11:15	**An Innovative Noise Reduction Algorithm for 5G Millimeter-Wave Monitoring of Urban Bridge Micro-Deformation** Author(s): Haiqian Wu, Runjie Wang, Xianglei Liu, Liang Huo, Ming Huang

11:15 - 11:30	**Spatiotemporal Information Reliability Reconstruction for Urban Optical Remote Sensing Imagery** Author(s): Dizhou Guo
11:30 - 11:45	**An AIoT-Enhanced Spatio-Temporal Graph Convolutional Methodology for Traffic Accident Risk Prediction** Author(s): Paulina Py Wong, Emily Wang, Wenhui Cai, Anson Yip, Benjamin Ng and Minhao Li
11:45 - 12:00	**Decentralized Exploration Planning for Multi-UAV Systems Using Self-Aggregation Mechanism** Author(s): Zhengkun Shang and Juntong Qi
12:00 - 12:15	**What Influences Human Experiences in a Place: a Hyperlocal Analysis using Environmental Sensing and Social Media Data** Author(s): Xiaotong Zhang and An Wang
12:15 - 12:30	**Modelling and Application of Semantic Pedestrian Networks in Urban Disaster Rescue** Author(s): Zhenhua Feng, Jicao Dao and Haonan Tang
12:30 - 12:45	**Seasonal Monitoring of the Green View Index via Massive Street View and Remote Sensing Imagery** Author(s): Pengfei Chen, Yibin Ma and Yixian Cai
12:45 - 14:00	Lunch Break
14:00 - 14:15	**VR-Based Soundscape Design Evaluation: A Study of Open Spaces Along Urban Rail Transit** Author(s): Jingwen Liu and Qi Meng
14:15 - 14:30	**Distributed Cooperative Navigation Algorithm for Unmanned Systems Based on Multi-agents Ranging Information Sharing** Author(s): Qian Yang, Qingzhong Cai, Zeyang Wen, Gongliu Yang and Ningfang Song
14:30 - 14:45	**A Neural Network-Aided Inertial Navigation Method for LiDAR Outage Conditions** Author(s): Junyang Zhou, Qingzhong Cai, Feifan Lin, Gongliu Yang and Ningfang Song

14:45 - 15:00	**Modelling and Application of Semantic Pedestrian Networks in Urban Disaster Rescue** Author(s):Zhenhua Feng, Jicao Dao and Haonan Tang
15:00 - 15:15	**An Enhanced Indoor Positioning Framework using IMU Array and Barometer** Author(s): Chaoliang Wang,Tao Feng, Feifan Lin, Shiyu Bai, Shiliang Wang and Yue Yu
15:15 - 15:30	**Real-Time Neural Urban Energy Modeling: A 3D Gaussian Splatting Framework for AI-Native Digital Twins** Author(s):Wei Wu
15:30 - 15:45	**Breakthroughs and Deployment of Spatial Temporal Sensing Technologies in Megacities** Authors: Yang Liu, Ming Zhang, Xiao Zhang, Xin Hu, Chang Sun and Guanyao Li

RS3 - Urban Big Data Infrastructure (I),(II) at GSCS & ICUI 2025

Date: 7 August 2025 (Thursday)
Venue: Room Z406, Block Z, PolyU

Time	Presentation
09:00 - 09:15	**A Distributed Data Governance Architecture for Smart Cities Based on Data Unified Registration, Dynamic Catalog, and Local LLM Data Coordination** Author(s): Xuying Zheng, Fang Miao, Fasheng Yi, Wenjie Fan, Jun Zhuo, Erga Wang
09:15 - 09:30	**Automatic Generalization and Visualization of 3D Building Models Driven by Visual Perception** Author(s): Haojia Lin, Renzhong Guo and Biao He
09:30 - 09:45	**Voxel Depth-Constrained LOD2 Modeling for Urban Buildings** Author(s): Yi Hailong, Guo Renzhong, Wang Weixi, Xie Linfu, Tang Shengjun
09:45 - 10:00	**AI-Driven Automated 3D Modeling of Urban Buildings** Author(s): Liangchen Zhou, Qian Zhao, Pengxiang Wang and Guonian Lv
10:00 - 10:15	**An Optimized Spatial Learned Index for Upcoming Data Streaming** Author(s): Feng Zhang
10:15 - 10:30	**The Application of Computer Vision Technology in Real-scene 3D Modeling** Author(s): Jiangfeng She
10:30 - 10:45	Coffee Break
10:45 - 11:00	**How does the Environment Shape Urban Cycling? Insights from Explainable Machine Learning on Cycling Speed and Flow** Author(s): Yihang Chu and Xiaolin Zhu
11:00 - 11:15	**An AI-Based Early Warning Algorithm for Food Security in Somalia: A Hybrid Time-Series Forecasting Framework** Author(s): Xinyi Liu, Yue Yu, Feifan Lin, Jiangfeng Huang and Jiaxin Liu
11:15 - 11:30	**SEED: A Synthesized Multi-Dimensional Environmental Exposure Database for Diverse Australian Populations** Author(s): Wenhui Cai, Qian (Chayn) Sun, Siqin Wang, Matt Duckham
11:30 - 11:45	**Immersive Flood Communication: An Interactive Virtual Reality System Integrating Game Engine and GIS** Author(s): Kris Co, Qian (Chayn) Sun

11:45 - 12:00	**Stylized Spatial Asset Generation for GIS** Author(s): Min Lu
12:00 - 12:15	**Analysis of the Impact of Speed Humps on Emergency Dispatch Delays** Author(s): Jihyo Jung, Eunjung Lee, Jungeun Cha, Hoe Kyoung Kim, Woochang Kim and Heesung Hwang
12:15 - 12:30	**An Innovative Noise Reduction Algorithm for 5G Millimeter-Wave Monitoring of Urban Bridge Micro-Deformation** Author(s): Haiqian Wu, Runjie Wang, Xianglei Liu, Liang Huo and Ming Huang

RS4 - Urban Computing and Data Analytics (I),(II) at GSCS & ICUI 2025

Date: 7 August 2025 (Thursday)
Venue: Room Z409, Block Z, PolyU

Time	Session
09:00 - 09:15	**An AI-Based Early Warning Algorithm for Food Security in Somalia: A Hybrid Time-Series Forecasting Framework** Author(s): Xinyi Liu, Yue Yu, Jiangfeng Huang, Feifan Lin, Jiaxin Liu, Yunjie Li
09:15 - 09:30	**A CGAN-Based Method for Predictive Generation of Wind Environment Images in Stadium-Centered Urban Blocks** Author(s): Xiaoyang Guo, Yutong Li, Shiliang Lu, Wenrui Cao, Lei Li
09:30 - 09:45	**TransRoadnet: a Multi-Modal Hybrid Road Network Recognition Method Integrating the Transformer Model.** Author(s): Jingzhong Li and Liya Gao
09:45 - 10:00	**Mining Cultural Features in Historical Spaces Using Multimodal Large Language Models** Author(s): Haixuan Zhu, Xinyu An and Yizhuo Wan
10:00 - 10:15	**Geo-analysis model Interoperability in the AI Era: Challenges, Solutions, and Future Directions** Author(s): Fengyuan Zhang and Min Chen
10:15 - 10:30	**Striking a Balance between Diversity and Regularity: A Preference-Guided Transformer for Individual Mobility Prediction** Author(s): Guangyue Li, Yang Xu and Shen Liang
10:30 - 10:45	Coffee Break
10:45 - 11:00	**Development and Validation of a Geospatial EXplainable Artificial Intelligence (GeoXAI) Framework for Mapping Mosquito Density in Metropolitans** Author(s): Meifang Liu and Bin Zhu
11:00 - 11:15	**Multimodal Social Media Analysis with Graph Embedding:Decoding Public Perception of Urban Parks in Hangzhou** Author(s): Yijie Gao and Anqi Wang
11:15 - 11:30	**Generative Adversarial Models for Extreme Geospatial Downscaling** Author(s):Guofeng Cao

11:30 - 11:45	**Leveraging SAM 2 and LiDAR for Automated Individual Tree Crown Delineation: A Comparative Evaluation of Prompting Methods** Author(s): Yun Zhu, William Locke, Jingyi Yuan, Yunqian Zhang, Qin Ma and Lu Liang
11:45 - 12:00	**Analysis of Driving Factors for Spatiotemporal Changes in Carbon Sources/Sinks in Yangtze River Economic Belt** Author(s): Yuqi Tang, Mengfei Yang, Ruizhen Luo, Zihan Dou, Penglin Zhang, Lu Chen
12:30 - 14:00	Lunch Break
14:00 - 14:15	**A Multidimensional AI-powered Framework for Analyzing Tourist Perception in Historic Urban Quarters: A Case Study in Shanghai** Author(s): Kaizhen Tan, Yufan Wu, Yuxuan Liu and Haoran Zeng
14:15 - 14:30	**Predicting Human Mobility OD Flows from Remote Sensing Images with Deep Learning Approaches** Author(s): Yichen Xu, Song Gao and Feng Zhang
14:30 - 14:45	**A Large Language Model-Based Land Use Efficiency Evaluation Method** Author(s): Zhou Yibo, Jiangping Chen, Yihan Zhu and Chenghao Li
14:45 - 15:00	**Federated Machine Learning-Based Urban Attributes Mapping using Multi-Source Urban Data** Author(s): Junxian Yu, Xiana Chen, Zhaoyue Cai, Wei Tu, Mo Su, Jianghai Liao and Tsz Nam Chan
15:00 - 15:15	**A Text Classification Method for Tourism and Geographic Text Data Based on Large Language Models** Author(s): Donglin Cheng, Tian Lan and Zhiwei Wu
15:15 - 15:30	**Urban Distinctiveness Through Multi-Scale Visual Heterogeneity: A Computational Framework for Design Perception** Author(s): Guosheng Yang and Cai Wu
15:30 - 15:45	Coffee Break
15:45 - 16:00	**A Graph Vertex-Coloring-Based Parallel Block Coordinate Descent Method for Solving the Traffic Assignment Problem** Author(s):Kai Zhang, Zhiyuan Liu, Honggang Zhang, Yicheng Zhang, Yuk Ming Tang and Xiaowen Fu
16:00-16:15	**A Cross-Modal Transferable Approach for Comprehensive Travel Demand Prediction** Author(s): Mingxiao Li, Jixing Tu and Wei Tu

16:15-16:30	**Fine-Scale Risk Assessment of COVID-19 Based on Multisource Geographical Data**
	Author(s): Changxian Wu

RS4 - Urban Computing and Data Analytics (III) at GSCS & ICUI 2025

Date: 8 August 2025 (Friday)
Venue: Room Z409, Block Z, PolyU

Time	Session
09:00 - 09:15	**Disassortative Mixing and Centrality in a Modern Transit System: A Case Study of the Singapore MRT Network** Author(s): Lingcen Liao, Cai Wu and Ge Lin Kan
09:15 - 09:30	**Identifying Inefficient Urban Residential Land via Mobile Signaling and Multi-Source Spatial Data: A Case Study Using GMM in Shenzhen** Author(s): Shihao Liang, Yixin Liu, Renzhong Guo, Weixi Wang, Ding Ma and Xiaoming Li
09:30 - 09:45	**Vulnerability Assessment and Critical Element Identification for Resilient Public Services Based on Online Map Services: A Case Study of Wuhan** Author(s): Bangwei Wu, Yuli Fan, Huizi Zhang, Huahao Li and Qingming Zhan
09:45 - 10:00	**Spatiotemporal Impacts of Purpose-Specific Human Mobility on Air Pollution: Evidence from Taxi Trajectories and Interpretable Machine Learning** Author(s): Wenrui Xu and Xinyue Gu
10:00 - 10:15	**Research on the Coupling Coordination between Green View Ratio and Green Coverage Ratio: A Case Study of theBuilt-up Area of Beijing** Author(s): Yi Zhang, Feng Ni, Jun Wu, Juan Gu, Yanfeng Xie and Siyang Yin
10:15 - 10:30	**Impact of Topographic Heterogeneity on Aboveground Biomass Estimation for Various Tree Species via Remote Sensing** Author(s): Yihan Zhu, Jiangping Chen, Jianhua Yin, Zilong Qin, Zongyao Sha, Yibo Zhou and Jizhou Chen
10:30 - 10:45	Coffee Break
10:45 - 11:00	**Exploring the Impacts of Weather Conditions and Built Environment on Metro Ridership Among People with Disabilities, the Elderly, and Commuters** Author(s): Jiemin Zheng, Mingxing Hu and Yuting Hou
11:00 - 11:15	**Decoding Urban Soundscapes: Spatial Prediction and Influence Mechanism Analysis using Multi-Source Geospatial Data** Author(s): Zhaoyue Cai, Siqi Chen, Yaosen Ye, Wei Tu, Tianhong Zhao, Shengao Yi and Junxian Yu
11:15 - 11:30	**Spatio-temporal Evolution Patterns and Early-warning Techniques for Residential Land Prices: A Case Study of Ningbo City Center** Author(s):Meng Yuan Zhu, Qian Nie and Shihong Sun

11:30 - 11:45	**Automated Extraction of Key Entities from Chinese Planning Texts via Large Language Model** Author(s):Wusiqin Zhang and Yimin Chen
11:45 - 12:00	**An Advanced Generative Framework for Low-Carbon Urban Morphology Optimization** Author(s):Tao Wu and Shiqi Zhou

RS5 - Smart Cities Solutions (I),(II) at GSCS & ICUI 2025

Date: 8 August 2025 (Friday)
Venue: Room Z414, Block Z, PolyU

Time	
09:00 - 09:15	**Modelling and Application of Semantic Pedestrian Networks in Urban Disaster Rescue** Author(s): Jicao DAO, Zhenhua FENG, Yuebing ZHANG, Haonan TANG
09:15 - 09:30	**An Empirical Study on Citizen-Driven Smart Innovation Technology Service Projects** Author(s): Jeongwoo Park and Kwang Woo Nam
09:30 - 09:45	**NSGA-II-Based Cost-Optimal Design for Renewable Energy Sharing Systems between Urban Buildings via Electric Vehicles** Author(s): Yaxuan Li, Sunliang Cao
09:45 - 10:00	**Satellite In Orbit Real Time Monitoring Empowers Smart City Pollution Response** Author(s): Xing Yan, Hang Lv and Jiayi Chen
10:00 - 10:15	**Smart Park Refined Management and Service Platform** Author(s): Jianwen Duan, Yijie Zhang and Sizhe Duan
10:15 - 10:30	**A Distributed Data Governance Architecture for Smart Cities Based on Data Unified Registration, Dynamic Catalog, and Local LLM Data Coordination** Author(s): Xuying Zheng, Fang Miao, Fasheng Yi, Wenjie Fan, Jun Zhuo and Erga Wang
10:30 - 10:45	Coffee Break
10:45 - 11:00	**Estimating Individual Activity Spaces: A Comparative Analysis using Longitudinal GPS Tracking Data** Author(s): Yafei Wang
11:00 - 11:15	**A Novel Approach to Assess Outdoor Thermal Sensation: Coupling Numerical Modeling with a Human Thermoregulation Model** Author(s): Dharmasastha Kumar and Jianlei Niu
11:15 - 11:30	**Comprehensive Flood Resilience Assessment Framework for Urban Areas: A Case Study of Moonee Valley and Maribyrnong, Melbourne** Author(s): Prasan Lama, Qian (Chayn) Sun
11:30 - 11:45	**Spatial-Temporal Pattern of Regional Development in Southern Africa from the Perspective of Nighttime Light Remote Sensing** Author(s): Xiaoyu Shang, Xi Li and Xiaolin Zhu

11:45 - 12:00	**Ecological Wisdom of Tang Chang'an City Construction and Its Modern Revelation — Based on GIS and Spatial Syntax Technology** Author(s): Xingyu Ma
12:30 - 14:00	Lunch Break
14:00 - 14:15	**Exploring the Impact of Urban Morphology on Children's Well-Being using Interpretable Machine Learning** Author(s): Dongsheng Chen and Liqiu Meng
14:15 - 14:30	**Leveraging Infrastructure, Demographics and Policy Timing to Accelerate Low-Carbon Vehicle Uptake:　An Agent-Based Life-Cycle Assessment for Beijing (2018-2035)** Author(s): Ying Zhang and Chengxiang Zhuge
14:30 - 14:45	**Modular Vehicle Scheduling and Robot Routing for Combining Passenger and Freight Transport** Author(s): Ya Xiong and Min Xu
14:45 - 15:00	**Cooling Effect of Dynamic Ventilation with Coordinated Supply Air Velocity and Temperature** Author(s): Jinghua Jiang,Xia Zhang,Sheng Zhang and Zhang Lin
15:00 - 15:15	**Innovative Approaches to Urban Development, Towards a Better Quality of Life of Pt Deen Dayal Upadhyay Nagar, Uttar Pradesh, India** Author(s): Urjaswita., Gurudatta Singh, Vinod Kumar Tripathi
15:15 - 15:30	**Risk Assessment-Based Adaptive Platoon Control in Complex Traffic Environment** Authors: Ting Meng and Yan Wang
15:45 - 16:00	**Electric Vehicle Routing for Reservation-based En-Route Charging Services** Authors:Xiaohua Chen and Min Xu

RS6 - Emerging Topics in Smart City Development (I) at GSCS & ICUI 2025

Date: 7 August 2025 (Thursday)
Venue: Room Z406, Block Z, PolyU

Time	Session
12:30 - 14:00	Lunch Break
14:00 -14:15	**Zero-shot Prediction of Neighborhood Health Using Multimodal Large Language Models** Author(s): Haoxiang Zhao, Yuan Lai
14:15 - 14:30	**Sentiment Computing of Urban Historical and Cultural Blocks Based on Multimodal Large Language Models — A Case Study of Harbin Central Avenue** Author(s): Haixuan Zhu, Yizhuo Wan, Yuxin An
14:30 - 14:45	**Mining Spatial Perception Features in Historical Spaces Using Multimodal Large Language Models** Author(s): Haixuan Zhu, Xinyu An, Yizhuo Wan
14:45 - 15:00	**An Advanced Generative Framework for Low-Carbon Urban Morphology Optimization** Author(s): Tao Wu, Zeyin Chen, Shiqi Zhou, Zhiqiang Wu
15:00 - 15:15	**A Review of Research on the Application of CIM Platforms in China's Urban Renewal** Author(s): Qing Han, Bowen Yao, Liuzhong Yang, Hanting Yang
15:15 - 15:30	**Urban Multi-Scale Information Graph and Fusion Model** Author(s): Mingyi Ma, Haoxiang Zhao, Jiali Wang, Yuan Lai
15:30 - 15:45	Coffee Break
15:45 - 16:00	**Distributed Cooperative Navigation Algorithm for Unmanned Systems Based on Multi-Agents Ranging Information Sharing** Author(s): Qian Yang, Qingzhong Cai, Zeyang Wen, Gongliu Yang, Ningfang Song
16:00 - 16:15	**Towards the Sustainable Economy through Digital Technology: A Drone-Aided After-Sales Service Scheduling Model** Author(s): Xin Wen and Zimu Guo
16:15 - 16:30	**Perceptual Prediction Research Based on Facial Action Unit Recognition for Smart City Soundscape Management** Author(s): Xuejun Hu and Qi Meng

16:30 - 16:45	**The Role of Drones as Urban Agents in Smart Cities: A Study of Hangzhou and Shenzhen** Author(s): Yiyuan Liu
16:45 - 17:00	**Post-Pandemic Accessibility of Smartphone-Based Mobility Services: a Comparative Study of Smart Mobility Development in Hong Kong and Frankfurt Rhine-Main** Author(s): Calvin Ming Tsun Lai
17:00 - 17:15	**A Homogeneous Unit-Multi-Type Proportional (HU-MTP) Modeling Framework for Heterogeneous Block Morphology Characterization and Heat Risk Prediction** Author(s): Zihao Wu, Wanlu Ouyang, Lei Ma and Ziyu Tong
17:15 - 17:30	**Co-investment with Payoff Sharing Benefit Operators and Users in Network Design** Author(s): Mingjia He, Andrea Censi, Emilio Frazzoli and Gioele Zardini
17:30 - 17:45	**The Development of Taiwan HD Maps for Assisting Smart Mobile Mapping Technology** Author(s): Chih-Yun Hsieh, Kai-Wei Chiang, Meng-Lun Tsai, Chin-Sung Yang, Sean Lin, Yi-Feng Chang, Jyh-Ching Juang, Chi-Kuei Wang, Ching-Fu Lin, Hatem Darweesh and Pei-Ling Li