City+ 2023 @ Perth

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

An International Conference for Early Career Researchers and
PhD Students on Urban Studies

8 – 10 September 2023, Perth, Australia

CONFERENCE PROGRAM

Geospatial Big Data and Artificial Intelligence for Cities

Time Zone: GMT+8, AWST, Perth, Beijing, Hong Kong, Singapore

Day 1 - Physical conference **8 September, Friday** **Bankwest Theatre, 200A John Curtin Building, Curtin University** **(Live through MS Teams)**	
7:45 am – 8:10 am	Registration
8:10 am – 8:15 am	Welcome and Introduction • **Yongze Song**, Conference Chair
8:15 am – 8:40 am	Opening Speech • **Lindy Fitzgerald**, Professor, Deputy Vice-Chancellor, Curtin University • **Joseph Awange**, Professor, Associate Editor of "Remote Sensing of Environment" • **Brad Carey**, Deputy Head of School, School of Design and the Built Environment • **Mohammad Swapan**, Director of Graduate Research, School of Design and the Built Environment
8:40 am – 8:50 am	**Take Photos** (Outside John Curtin Gallery)
9:00 am – 9:20 am	Morning Tea
9:20 am – 11:00 am	**Keynotes** • Keynote 1 (40 min) **Melanie Johnston-Hollitt**, Professor, Chair for Curtin Institute for Computation (CIC), Curtin University, Australia • Keynote 2 (40 min) **Filip Biljecki**, Chair for Urban Analytics Lab, National University of Singapore, Singapore • Q&A (20 min)
11:00 am – 11:10 am	Short Break
11:10 am – 12:20 pm	**Industry Workshop** *Chairs: Muhammad Bilal Shaikh (Edith Cowan University); Gang (Adam) Lin (Curtin University)* • Industry Keynote 1 (30 min) **Lalinda Karunaratne**, Main Roads Western Australia • Industry Keynote 2 (30 min) **Tom Bos**, Rio Tinto
12:20 pm – 1:00 pm	Lunch
1:00 pm – 4:00 pm	**Session 1: Advances in geospatial research and industries** *Chairs: Sania Zahan (University of Western Australia), Kai Ren (Curtin University), Omri Ram (University of Western Australia)* • Part 1 (1:00 pm): 5 papers, 10 min each; 10-min Discussion • Part 2 (2:00 pm): 5 papers, 10 min each; 10-min Discussion • Part 3 (3:00 pm): 5 papers, 10 min each; 10-min Discussion
9:00 pm - 10:00 pm	**Special Online Session** (North America & South America Regions) *Chair: Aynaz Lotfata (University of California, Davis, United States)*
Conference Website	**Poster Session** *Chairs: Zehua Zhang (Curtin University), Surakshya Dhakal (Independent Researcher, (University of Manchester), UK)*

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

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Day 2 - Online conference **9 September, Saturday**	
8:00 am – 8:55 am	**Short Course** 1 (40 min) *Chair: Iacopo Testi (Massachusetts Institute of Technology (MIT), United States)* • **Qiusheng Wu**, University of Tennessee, United States • Q&A (15 min)
8:55 am – 9:00 am	Short Break
9:00 am – 9:55 am	**Keynote** 3 (40 min) *Chair: Nasser Najibi (Cornell University, United States)* • **Yong Ge**, Professor, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, China • Q&A (15 min)
9:55 am – 10:00 am	Short Break
10:00 am – 1:10 pm	**Session 2: Geospatial big data and AI** *Chairs: Iacopo Testi (Massachusetts Institute of Technology (MIT), United States), Aynaz Lotfata (University of California, Davis, United States), Arianna Salazar Miranda (Massachusetts Institute of Technology (MIT), United States)* • Part 1 (10:00 am): 5 papers, 10 min each; 10-min Discussion • Part 2 (11:00 am): 5 papers, 10 min each; 10-min Discussion • Part 3 (12:00 pm): 6 papers, 10 min each; 10-min Discussion
1:10 pm – 2:00 pm	Break
2:00 pm – 2:55 pm	**Keynote** 4 (40 min) *Chairs: Arianna Salazar Miranda (Massachusetts Institute of Technology (MIT), United States)* • **Katarzyna Sila-Nowicka**, University of Auckland, New Zealand • Q&A (15 min)
2:55 pm – 3:00 pm	Short Break
3:00 pm – 5:30 pm	**Session 3: Transport and health** *Chairs: Liang Ma (Peking University, China), Abolfazl Karimpour (State University of New York, United States), Huajie Yang (City University of Macau, Macau SAR)* • Part 1 (3:00 pm): 6 papers, 10 min each; 10-min Discussion • Part 2 (4:10 pm): 6 papers, 10 min each; 10-min Discussion
5:30 pm – 6:00 pm	Break
6:00 pm – 6:55 pm	**Short Course** 2 (40 min) *Chair: Peng Luo (Technical University of Munich, Germany)* • **Fred C. Sanders**, CPONH NGO Research Institute, the Netherlands; Freelance researcher and lecturer, Delft University of Technology, the Netherlands • Q&A (15 min)
6:55 pm – 7:10 pm	Short Break
7:10 pm – 8:05 pm	**Short Course** 3 (40 min) *Chairs: Siqin (Sisi) Wang (University of Queensland, Australia; University of Tokyo, Japan)* • **Fernando Benitez**, University of St Andrews, UK • Q&A (15 min)

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

Time Zone: GMT+8, AWST, Perth, Beijing, Hong Kong, Singapore

Day 3 - Online conference **10 September, Sunday**	
8:00 am – 8:55 am	**Keynote** 5 (40 min) *Chair: Franz-Benjamin Mocnik (University of Twente, Netherlands)* • **Miguel González-Leonardo**, El Colegio de México (COLMEX), Mexico; International Institute for Applied Systems Analysis (IIASA), Austria • Q&A (15 min)
8:55 am – 9:00 am	Short Break
9:00 am – 12:00 pm	**Session 4: Sustainable cities and infrastructure** *Chairs: Bin Chen (The University of Hong Kong, Hong Kong SAR), Motti Zohar (University of Haifa, Israel), Siqin (Sisi) Wang (University of Queensland, Australia; University of Tokyo, Japan)* • Part 1 (9:00 am): 6 papers, 10 min each; 10-min Discussion • Part 2 (10:10 am): 5 papers, 10 min each; 10-min Discussion • Part 3 (11:10 pm): 5 papers, 10 min each; 10-min Discussion
12:00 pm – 12:50 pm	Break
12:50 pm – 3:10 pm	**Session 4: Sustainable cities and infrastructure** *Chairs: Franz-Benjamin Mocnik (University of Twente, Netherlands), René Westerholt (TU Dortmund University, Germany)* • Part 4 (12:50 pm): 6 papers, 10 min each; 10-min Discussion • Part 5 (2:00 pm): 6 papers, 10 min each; 10-min Discussion
3:10 pm – 3:20 pm	Short Break
3:20 pm – 5:30 pm	**Session 5: Spatial methods** *Chairs: Ziqi Li (University of Glasgow, UK), Fernando Benitez (University of St Andrews, UK)* • Part 1 (3:20 pm): 5 papers, 10 min each; 10-min Discussion • Part 2 (4:20 pm): 6 papers, 10 min each; 10-min Discussion
5:30 pm – 6:15 pm	**Short Course** 4 (30 min) *Chairs: Ziqi Li (University of Glasgow, UK)* • **Peng Luo**, Technical University of Munich (TUM), Germany • **Zehua Zhang,** Curtin University, Australia • Q&A (15 min)
6:15 pm – 7:00 pm	Closing Ceremony and Awards

Geospatial Big Data and Artificial Intelligence for Cities

Keynote Speakers

Professor Melanie Johnston-Hollitt

Keynote Speaker (Physical in Perth)

Curtin Institute for Computation (CIC)

Curtin University, Australia

Dr Filip Biljecki

Keynote Speaker (Physical in Perth)

NUS Urban Analytics Lab

National University of Singapore, Singapore

Professor Yong Ge

Keynote Speaker (Online)

Institute of Geographical Sciences and Natural Resources Research

Chinese Academy of Sciences, China

Dr Miguel González-Leonardo

Keynote Speaker (Online)

El Colegio de México (COLMEX), Mexico; International Institute for Applied Systems Analysis (IIASA), Austria

Dr Katarzyna Sila-Nowicka

Keynote Speaker (Online)

University of Auckland, New Zealand

Mr. Lalinda Karunaratne

Industry Keynote Speaker (Physical in Perth)

Main Roads Western Australia, Australia

Mr. Tom Bos

Industry Keynote Speaker (Physical in Perth)

Rio Tinto, Australia

Conference Committee

Yongze Song

Conference Chair

Senior Lecturer, Curtin University, Australia

Short Courses

Qiusheng Wu

Short Course Lecturer

Assistant Professor, University of Tennessee, United States

Fred C. Sanders

Short Course Lecturer

CPONH NGO Research Institute, the Netherlands; Freelance researcher and lecturer, Delft University of Technology, the Netherlands

Fernando Benitez

Short Course Lecturer

Lecturer, University of St Andrews, UK

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

Conference Committee

Online Sessions

Nasser Najibi
Keynote Session Chair
Postdoc Fellow, Cornell University, United States

Arianna Salazar Miranda
Session Chair
Massachusetts Institute of Technology (MIT), United States

Aynaz Lotfata
Session Chair
Research Scientist, University of California, Davis, United States

Franz-Benjamin Mocnik
Session Chair
Assistant Professor, University of Twente, Netherlands

René Westerholt
Session Chair
Juniorprofessor, TU Dortmund University, Germany

Motti Zohar
Session Chair
Senior Lecturer, University of Haifa, Israel

Abolfazl Karimpour
Session Chair
Assistant Professor, State University of New York, United States

Iacopo Testi
Session Chair
Massachusetts Institute of Technology (MIT), United States

Siqin (Sisi) Wang
Awards Chair
Honorary Research Fellow, University of Queensland, Australia; JSPS Research Fellow, University of Tokyo, Japan

Ziqi Li
Session Chair
Lecturer (Assistant Professor), University of Glasgow, UK

Bin Chen
Session Chair
Assistant Professor, The University of Hong Kong, Hong Kong SAR

Liang Ma
Session Chair
Associate Professor, Peking University, China

Surakshya Dhakal
Poster Session Chair
Lecturer, Independent Researcher (University of Manchester), UK

Peng Luo
Short Courses Chair
Technical University of Munich (TUM), Germany

Physical Sessions in Perth

Sania Zahan
Physical Session Chair
AI Researcher, University of Western Australia, Australia

Muhammad Bilal Shaikh
Industry Chair
Data Scientist, Edith Cowan University, Australia; CSIRO, Australia
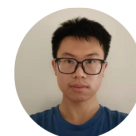
Madelyn Cook
Technical Chair
Curtin University, Australia

Gang (Adam) Lin
Local Session Chair
Curtin University, Australia

Zehua Zhang
Poster Session Chair
Curtin University, Australia

Kai Ren
Social Media Chair
Curtin University, Australia

Omri Ram
Technical Chair
University of Western Australia, Australia

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

Conference Committee

City+ Network Committee

Yongping Zhang (Chair)	Zhejiang University, China
Mengqiu Cao (Co-chair)	University of Westminster, the UK
Zhifu Mi (Co-chair)	University College London, the UK
Tianren Yang (Co-chair)	University of Hong Kong, Hong Kong SAR
Lorenzo Ceccon	Politecnico di Milano, Italy
Frank Chuang	The Alan Turing Institute, the UK
Mingjie Dai	City University of Macau, Macau SAR
Yiru Jia	Beijing Forestry University, China
Yang Liang	Polytechnic University of Milan, Italy
Zhicheng Liu	Univeristy College London, the UK
Annalisa Rollandi	Politecnico di Milano, Italy
Fred C. Sanders	Delft University of Technology, the Netherlands
Yang Song	Zhejiang University, China
Jiayu Wu	Zhejiang University, China
Juan Yan	Tongji University, China
Huajie Yang	City University of Macau, Macau SAR
Peiheng Yu	The Hong Kong Polytechnic University, Hong Kong SAR
Pengcheng Zeng	Politecnico di Milano, Italy
Tuyu Zhou	Australian National University, Australia

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

Keynote Speakers and Industry Keynote Speakers

Time & Chairs

9:40 AM – 11:15 AM, 8 Sep 2023

Yongze Song

Curtin University, Australia

Prof. Melanie Johnston-Hollitt

Curtin Institute for Computation (CIC), Curtin University, Australia

Title: Challenges and Opportunities with Geospatial Artificial Intelligence: How Big Data, Geographic Information Science, and Data Science is the Future of Urban Studies

Dr. Filip Biljecki

NUS Urban Analytics Lab, National University of Singapore, Singapore

Advancing urban modelling with emerging geospatial datasets and AI technologies

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9:00 AM – 10:00 AM, 9 Sep 2023

Nasser Najibi

Cornell University, United States

Prof. Yong Ge

Institute of Geographical Sciences and Natural Resources Research, CAS, China

Mapping with geoscience-aware deep learning

2:00 PM – 3:00 PM, 9 Sep 2023

Arianna Salazar Miranda

Massachusetts Institute of Technology (MIT), United States

Dr. Katarzyna Sila-Nowicka

University of Auckland, New Zealand

Human mobility data in urban analytics

8:00 AM – 9:00 AM, 10 Sep 2023

Franz-Benjamin Mocnik

University of Twente, Netherlands

Dr. Miguel González-Leonardo

International Institute for Applied Systems Analysis (IIASA), Austria; University of Liverpool, UK

Human mobility in times of COVID-19

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11:20 AM – 12:20 PM, 8 Sep 2023

Muhammad Bilal Shaikh

Edith Cowan University, Australia

Gang (Adam) Lin

Curtin University, Australia

Mr. Lalinda Karunaratne

Main Roads Western Australia, Australia

Title: Navigating the Road to the Big Picture from Big Data

Mr. Tom Bos

Rio Tinto, Australia

Success factors impacting strategy- and governance frameworks for environmental digital twins in the mining industry

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Geospatial Big Data and Artificial Intelligence for Cities

Short Courses

Time & Chairs

8:00 AM – 9:00 AM, 9 Sep 2023

Iacopo Testi

Massachusetts Institute of Technology (MIT), United States

Dr. Qiusheng Wu
University of Tennessee, United States

Interactive Cloud Computing with Google Earth Engine and Geemap

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6:00 PM – 7:00 PM, 9 Sep 2023

Peng Luo

Technical University of Munich (TUM), Germany

Fred Sanders
CPONH NGO Research Institute, the Netherlands; Delft University of Technology, the Netherlands

Climate change will bring change and prosperity if we adapt to the changes and work together!

7:10 PM – 8:10 PM, 9 Sep 2023

Siqin (Sisi) Wang

University of Queensland, Australia; University of Tokyo, Japan

Dr. Fernando Benitez
University of St Andrews, UK

The Turing way a tool for Reproducible Research and Open Science

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5:30 PM – 6:00 PM, 10 Sep 2023

Ziqi Li

University of Glasgow, UK

Peng Luo
Technical University of Munich (TUM), Germany

Generalized Spatial Association Modelling towards Intelligent Spatial Understanding

Zehua Zhang
Curtin University, Australia

Spatial effects in daily data analytics: disparity and complexity

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Geospatial Big Data and Artificial Intelligence for Cities

Session 1. Advances in geospatial research and industries (Physical in Perth)

Session Chair

Sania Zahan

University of Western Australia, Australia

Kai Ren

Curtin University, Australia

Omri Ram

University of Western Australia, Australia

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1:00 PM – 4:00 PM

8 September

Part 1

Aviral Marwal   University of Cambridge, the UK
Simulating Built-up expansion in West Delhi with an integrated Neural Network and Agent Based-Prioritised Growth Model

Eleni Stefania Kalapoda Columbia University, United States
Timber Urbanism: Assessing the carbon footprint of mass-timber, steel, and concrete structural prototypes for peri-urban densification in the Hudson Valley's urban fringe.

Weijie Hu   Swinburne University of Technology, Australia
Lessons from Chongqing: Public Rental Housing and Family Lives of the New Citizens

Weiqiang Chen   Resources and Urban Sustainability at the Institute of Urban Environment, CAS, China
Achieving net-zero material consumption to build future cities

Selen Aksoy   Istanbul Technical University, Turkey
Prediction of Lived Public Space

Part 2

Emily Tianyuan Wang   University of Cambridge, the UK
Using Natural Language Processing to Identify Key Planning Strategies from Government Documents - A Case Study of 117 Chinese Cities from 2011 to 2019

Chunjiang Chen   Curtin University, Australia
Assessing cracks in large-scale road transport infrastructure using spatial machine learning

Tom Bos   Rio Tinto, Australia
Success factors impacting strategy- and governance frameworks for environmental digital twins in the mining industry.

Shilong Li   Chongqing University, China
Study on the impact of smart city construction to the green and high-quality development of cities

Alisha Shahid   MM Pakistan, Pakistan
Transforming Urban Futures: AI Advancements in Master Planning for Sustainable Cities

Part 3

Ivy Chang   University of Huddersfield, the UK
Enhancing Workplace Productivity Through Evidence-Based Design

Zaid O. Saeed   Curtin University, Australia
Digital Architecture: From Static to Dynamism-The Era of BIG DATA

Haiyun Xu   Beijing University of Civil Engineering and Architecture, China
Using social media photographs deep learning to assess cultural ecosystem services for high-density urban green space management: Case from Central Beijing

Zhiran Fan   Jiangsu Provincial Planning and Design Group, China
The green system design under the definition of coastal city

Ajibola R. Oyebamiji University of Portsmouth, the UK
Hotspot Analysis of Oil Spill Events Using GIS; A Case Study of Niger Delta, Nigeria

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

*Special Session: North America & South America Regions

Session Chair

Aynaz Lotfata

University of California, Davis, United States

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9:00 PM – 10:00 PM

8 September

Eleni Stefania Kalapoda — **Columbia University, United States**

Timber Urbanism: Assessing the carbon footprint of mass-timber, steel, and concrete structural prototypes for peri-urban densification in the Hudson Valley's urban fringe.

Tianjun Lu — **California State University, United States**

How COVID-19 Impacts Air Pollution Exposure Among Disadvantaged Communities? Leveraging Crowd-Sourced Geospatial Data to Develop Healthy Communities

Augusto dos Santos Pereira — **Instituto Brasileiro de Geografia e Estatistica, Brazil**

Block Saturation Level: a novel typology of block occupancy based on deep learning classification of satellite images

Jingjing Yan — **University of Arkansas, United States**

Inequality of eye-level urban greenness provision across the top ten populated cities in U.S.A

Reza Naghedi — **University of Arkansas, United States**

A smart dashboard for forecasting disaster casualties: An investigation from sustainable development dimensions

* Due to time difference, online presenters from North America and South America regions listed here only need to attend this special online session OR your own session listed in the following pages.

Session 2. Geospatial big data and AI (online)

Session Chair

Iacopo Testi

Massachusetts Institute of Technology (MIT), United States

Aynaz Lotfata

University of California, Davis, United States

Arianna Salazar Miranda

Massachusetts Institute of Technology (MIT), United States

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10:00 AM – 2:20 PM

9 September

Part 1

Tianjun Lu California State University, United States

How COVID-19 Impacts Air Pollution Exposure Among Disadvantaged Communities? Leveraging Crowd-Sourced Geospatial Data to Develop Healthy Communities

Can Zhang The University of Hong Kong, Hong Kong SAR

Opportunities and Challenges of Geospatial Artificial Intelligence Foundation Models in the Context of ChatGPT Large Model

Kavach Mishra Indian Institute of Technology Roorkee, India

Investigating Non-linearity of Spaceborne Hyperspectral Datasets through Dimensionality Reduction Approaches

Chenglong Wang Peking University Shenzhen Graduate School, China

Uncovering the global and local structures of urban networks via Poincare Embedding

Tengyun Hu Beijing municipal institute of city planning and design, China

Evaluating the effect of plain afforestation project and future spatial suitability in Beijing

Part 2

Shuyu Zhang Delft University of Technology, the Netherlands

Exploring the measurement of place identity through social media data

Jiamin Li Chongqing University, China

The value of building a perception-based green elements database for empirical research on future vitality

Han Wang Peking University, China

GWRBoost: A geographically weighted gradient boosting method for explainable quantification of spatially-varying relationships

Wenyan Fu Zhejiang University, China

Developing X-minute city with the dockless bike-sharing service

Sanjay Somanath University of Gothenburg, Sweden

Sentiment and semantic analysis: Urban quality inference using machine learning algorithms

Part 3

Augusto dos Santos Pereira Instituto Brasileiro de Geografia e Estatistica, Brazil

Block Saturation Level: a novel typology of block occupancy based on deep learning classification of satellite images

Wenting Luo Central China Normal University, China

SALT: a multifeature ensemble learning framework for mapping urban functional zones from VGI data and VHR images

Qihao Wang LAY-OUT Planning Consultants Co., China

Exploring Spatiotemporal Big Data to Examine the Complementarity between Shenzhen and Hong Kong

Xue Wang China University of Petroleum (East China), China

Factors of Social Network Platform Usage and Privacy Risk: A Unified Theory of Acceptance and Use of Technology2 Model

Xiao Guo Hohai University, China

Evaluating the Potential of Different Evapotranspiration Datasets for Distributed Hydrological Model Calibration.

Ezgi Şendil Bogazici University, Turkey

Natural Language Processing for the Classification of Social Media Posts in Post-Disaster Management

Session 3. Transport and health (online)

Session Chair

Liang Ma

Peking University, China

Abolfazl Karimpour

State University of New York, United States

Huajie Yang

City University of Macau, Macau SAR

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3:00 PM – 5:30 PM

9 September

Part 1

Qiyan Li University of Edinburgh, UK

Street-level physical disorders, multi-scale socioeconomic disparities and neighbourhood satisfaction in Chinese older adults: Using street view data and machine learning approach

Yuxuan Chen Tsinghua University, China

Study of Outdoor Public Space in Emergency Departments in Shanghai

JingZhu Northwest University, China

The impact of urban transportation facilities on commuter's public transit satisfaction: a case study of Xi'an, China

Yuhao Wang Kunming University of Science and Technology, China

Predicting travel time reliability with automatic fare collection data for an urban rail transit network

Cailin Qiu Tianjin University, China

Evaluate the physical activity vitality of urban greenways using trajectory entropy

Meiye Li Southeast University, China

Heterogenous Trip Distance-Based Route Choice Behavior Analysis Using Real-World Large-Scale Taxi Trajectory Data

Part 2

Liang Ma Peking University, China

Impact of commuting time on work productivity: A quasi-longitudinal examination

Mohamed Amin HAMMAMI Imam Abdulrahman Bin Faisal University, Saudi Arabia

A psychoacoustic approach for the diagnostic of urban soundscapes

Yixin Sun Dalian University of Technology, China

Research on the characteristics of commercial agglomeration and evolution of embedded residential rail transit stations - Comparative study based on the cases of three countries

Fengliang Tang Tianjin University, China

Geospatial Analysis of Healthcare Accessibility and Equity in the Beijing-Tianjin-Hebei Region

Ying Zhao Kunming University of Science and Technology, China

Optimization of emergency medical supplies distribution in public health emergencies

Jie Liu Kunming University of Science and Technology, China

Enhancing Urban Rail Transit Resilience through Optimization

Xinyao Li Wuhan University, China

An ensemble learning-based neural network model for predicting urban rail transit accidents

Jie Liu Northeast Forestry University, China

A coupling model for measuring the substitution of subway for bus during snow weather: a case study of Shenyang, China

Session 4. Sustainable cities and infrastructure (online)

Session Chair

Bin Chen

The University of Hong Kong, Hong Kong SAR

Motti Zohar

University of Haifa, Israel

Siqin (Sisi) Wang

University of Queensland, Australia; University of Tokyo, Japan

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9:00 AM – 3:20 PM

10 September

Part 1

Rui Shao Ghent University, Belgium

Metro accessibility and space-time flexibility of shopping travel: A propensity score matching analysis

Jingjing Yan University of Arkansas, United States

Inequality of eye-level urban greenness provision across the top ten populated cities in U.S.A

Peng Wang Nanjing University, China

Metro accessibility and space-time flexibility of shopping travel: A propensity score matching analysis

Yuehong Chen Hohai University, China

Spatial location optimization of fire stations with traffic status and urban functional areas

Jiahui Fan Tongji University and EPFL, China

Ruralization in Metropolitan Areas: An Explanation Based on Shanghai

Yang Chen Nanjing Normal University, China

An Automatic Approach to Extracting Large-Scale Three-Dimensional Road Networks Using Open-Source Data

Part 2

Zeyu Zhao Tsinghua University, China

Reconnecting Human Engagement with Urban Response through a Hypernetwork Model: Enhancing Urban Resilience in the Anthropocene

Reza Naghedi University of Arkansas, United States

A smart dashboard for forecasting disaster casualties: An investigation from sustainable development dimensions

Anqi Lin Central China Normal University, China

Identifying core driving factors of urban land use change from global land cover products and POI data using the random forest method

Shuning Liu Shanghai University of Finance and Economics, China

Sharing Economy, Housing, and Urban Regeneration in Shanghai

Shuyu Sun Shanghai Jiao Tong University, China

Household energy and carbon inequality considering rural-urban differences in China: Current status and future trends

Part 3

Ce Jiang Nankai University, China

A New Method of Extracting Built-up Area Based on Multi-source Remote Sensing Data: A Case Study of Baoding Central City, China

Ke Sun Shanghai Jiao Tong University, China

Developing process-based modelling to quantify urban energy service: Using two cities as cases

Jiaqing Yao, Ando Renmin University of China / KPMG Advisory (China) Limited, China

Enhancing Sustainable Value Creation: ESG Integration in Alternative Investments within the Infrastructure Sector

Lei Mu Hubei University, China

Spatial Optimization of Park Green Spaces by an Improved Two-Step Optimization Model from the Perspective of Maximizing Accessibility Equity

Xingyuan Yang Tianjin University, China

Research on Low Carbon Spatial Allocation of Courier Outlets from the Perspective of Behavior Guidance - Taking Nankai District of Tianjin as an Example

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Geospatial Big Data and Artificial Intelligence for Cities

Session 4. Sustainable cities and infrastructure (online)

Session Chair

Franz-Benjamin Mocnik

University of Twente, Netherlands

René Westerholt

TU Dortmund University, Germany

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9:00 AM – 3:20 PM

10 September

Part 4

Fred Sanders   CPONH NGO Research Institute, the Netherlands
Coastal city learning model; reflecting climate change adaptation measures with other cities.

Rashid Maqbool   Northumbria University, UK
Significance of different phases of BIM implementation towards sustainable construction project management

Valerio della Sala Nankai University, China
Sustainable planning for the Olympic Legacy. The Turin 2006 Winter Olympic Games case study

Fatemeh Rajabi   Shahid Rajaee Teacher Training University, Iran
Investigating the effect of school proximity to green space on students' satisfaction using Google POI

Ce Gao   Guangzhou City Construction College, China
Study of key influential factors of culvert deterioration: A data driven approach

Lijun Xing   Hubei University, China
Identifying the Urban spatial environmental factors affecting insomnia and their synergies based on multi-source big data

Part 5

Huibin Mo   Tsinghua University, China
Spatiotemporal evolution and driving forces of PM2.5-related mortality in Chinese cities

Guo Ru   Tianjin University, China
Spatial Equality of Recreational Opportunity and Recreational Environment of Urban Park

Weifeng Su   Nankai University, China
A framework of digital nomad experiences as revealed through means-end chain analysis

Ziming Wang   Chongqing University, China
Infrastructure in Chengdu-Chongqing Economic Circle: Multi-dimensional Analysis

Wei Dong   Southeast University, China
Review of the Vitality of Urban Public Spaces

Geyang Xia   Southeast University, China
Unequal traveling: how school district system and school district housing characteristics shape the duration of families commuting

Curtin University

Session 5. Spatial methods (online)

Session Chair

Ziqi Li

University of Glasgow, UK

Fernando Benitez

University of St Andrews, UK

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3:20 PM – 5:30 PM

10 September

Part 1

Vitaly Kryukov   Aston University, UK

Urban ecosystem services: assessment pathways for regulating, institutional and cultural value

Rashid Maqbool   Northumbria University, UK

The impact of Lean practices in improving the construction production for a better waste management towards sustainability

Zhenhua Bing   Shanghai Business School, China

The Research on urban/ suburban Cultural Ecosystem Service Demand and Supply Spatial Distribution: A Case study from Shanghai, China

Wenhui Wang   Beijing University of Technology, China

Spatiotemporal evolution of4coordination and conflict of land use functions and influencing factors: a case study in Beijing, China

Part 2

Kai Ren   Curtin University, Australia; Northwest A&F University, China

Identifying Climate and Environmental Determinants of Spatial Disparities in Wheat Production Using a Geospatial Machine Learning Model

Yi Cheng   Nanjing University, China

Urban Renewal: Morphology-based Planning for Sustainable Development

Haipeng Wang   Southeast University, China

A Study on the Spatial Succession of Urban Center System Based on Spatial Syntax

Zhihan Zhang   Southeast University, China

The Space for the Elderly: Aging-friendly Design Strategies for Informal Public Spaces in Old Town

Yun Ling   Tongji University, China

The matching degree of supply and demand accessibility for emergency rescue service with social media data: A case study of heavy rainstorm disaster in Zhengzhou

Yifei Yang   China University of Geosciences, China

Optimizing Urban Functional Land Use through Heuristic Tuning for Dual Low Carbon Targets at Regional Land Use Structure and Local Pattern Scale Optimization

Curtin University

Geospatial Big Data and Artificial Intelligence for Cities

Poster Session

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