

Session Program

7-11 Jul 2025



AESOP ANNUAL CONGRESS 2025

EMERGING TECHNOLOGIES

Yildiz Technical University, Istanbul
Çifte Havuzlar, YTÜ-Davutpaşa Kampüsü, 34220 Esenler/İstanbul, Türkiye

Tuesday 8 July

11:00

EMERGING TECHNOLOGIES: L1 - Artificial Intelligence S1

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Conveners:**
Prof. Fatih Terzi, Michele Campagna, Merve Deniz Tak

11:00-11:10

Using artificial intelligence to analyse the role of multi-level strategic spatial planning in the development of operational landscapes

Speaker

Dr Simona R Gradinaru

11:10-11:20

Reframing Urban Narratives: AI, Digital Innovation, and the Role of Intelligent Adaptation in Just and Equitable Planning

Speaker

Dr Denis Maragno

11:20-11:30

PC-GAN: A Hybrid Pix2pix-CycleGAN Framework for Low-Carbon Urban Morphology Optimization

Speaker

Mr Tao Wu

11:30-11:40

Using Social Media Big Data and ChatGPT for Identifying Counter-Urbanisation Hot Spots in China

Speaker

Mr Jian Chen

11:40-11:50

Unraveling the Complexity of Urban Functional Organization Based on Explainable GeoAI

Speaker

Mr Xinzhuo Zhao

11:50-12:00

Towards a Domain specific LLM for Sustainable Urban Development: Extracting Research trends and topics from Text Data

Speakers

Agota Barabas, Husain Vaghjipurwala

12:30

14:00

EMERGING TECHNOLOGIES: L2 - Digital Transformation

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Conveners:** Merve Deniz Tak, Michele Campagna

14:00-14:10

Digitalization, Culture, and Urban Space Interaction: A Design Fiction Approach

Speaker

Ms Zeynep Gülce Aydın

14:10-14:20

A Digitalised Tourism Sector: Impact on Occupations and Geographies**Speakers**

Balázs Cserpes, Rachele Vanessa Gatto

14:20-14:30

Sensing the Cities: Repurposing Open-Source Image Datasets for Urban Analytics**Speaker**

Chhavi Arya

14:30-14:40

The Impact of Environmental Design Elements on Corporate Site Selection for Information Industry Companies in the Metaverse**Speaker**

Mr Yılma KARATUNA

14:40-14:50

Unraveling the relationship between the digital platforms and gentrification: Evidence from Nanjing, China**Speaker**

Qianhui He

15:30

16:00

EMERGING TECHNOLOGIES: L3 - Digital Twins**Session** | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Prof. Fatih Terzi

16:00-16:10

Urban Digital Twins for Cities in Transition: A Literature Review on Current Applications and Future Perspectives**Speaker**

Pietro Legnani

16:10-16:20

Effective Monitoring and Evaluation for Digital Twins**Speaker**

Dr William Hynes

16:20-16:30

Mobility Digital Twin for Public Transportation Planning: Addressing the Challenges of Depopulation and Aging**Speaker**

Dr Jue Ma

16:30-16:40

Towards Drone-Based 3D City Information Modeling for Urban Analysis and Planning**Speaker**

Mr Abdalrahman T. Y. Alashi

16:40-16:50

3D Simulations of Urban Planning Regulations: Assessing Regulatory Impacts on Densification and Urban Expansion**Speaker**

Dr somaie Abolhasani

17:30

Wednesday 9 July

11:00

EMERGING TECHNOLOGIES: L4 - Geodesign

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Prof. Fatih Terzi

11:00-11:10

The digital transformation of planning: how data and algorithms are changing spatial planning practice

Speaker

Prof. Anna M. Hersperger

11:10-11:20

Geodesign for climate neutrality: contributing to Regional Climate Adaptation Strategies in Italy.

Speakers

Simone Corrado, Prof. Francesco Scorza

11:20-11:30

Geodesign as a Framework for the Green Transition of University Campuses: Case Studies from University College Dublin and Aarhus University

Speaker

Dr Chiara Cocco

11:30-11:40

Supporting collaborative scenario-building in land use and transport planning: An evaluation of the SIM4PLAN tool.

Speaker

Dr Julio A. Soria-Lara

11:40-11:50

A multiscale spatial approach to Climate Planning

Speaker

Prof. Michele Campagna

12:30

16:30

EMERGING TECHNOLOGIES: L5 - Artificial Intelligence S2

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Merve Deniz Tak

16:30-16:40

Information science, digital modelling and the legacy of the engineering mindset in planning thought

Speaker

Giulia Guadagnoli

16:40-16:50

AI-Empowered Research on Healthy Streets: An Iterative Path of Streetscape Perception, Evaluation, and Optimization

Speaker

Mr Yinqi Yu

16:50–17:00

Intelligent Urban Design: Self-organized Block Form Generation Using Reinforcement Learning——An Empirical Study from Nanjing, China

Speaker

Yuyue HUANG

17:00–17:10

AI-Driven Multimodal Data Fusion for Automated Ontology Construction: Methods and Smart Manufacturing Case Study

Speaker

Ms Rui JIANG

18:00

Thursday 10 July

09:00

EMERGING TECHNOLOGIES: L6 - Artificial Intelligence S3

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Michele Campagna

09:00–09:10

Identification of potential regeneration areas in urban residential districts using multi-source big data and GeoAI

Speaker

Dr Wenzhu Li

09:10–09:20

Geographically weighted machine learning for modeling spatial heterogeneity in off-campus student housing rents

Speaker

Mr Shih-Hung Yang

09:20–09:30

Towards Ethical Implementation of Urban Digital Twins: Addressing Key Challenges and Recommending Best Practices

Speaker

Dr Mani Dhingra

09:30–09:40

A Data-Driven Framework for Enhancing First-and-Last-Mile Connectivity in Bicycle-Metro Integration Systems: Based on Dockless Shared Bicycle Data in Shanghai, China

Speakers

Ms Jiaming XING, Mr Yuxuan WANG, Mr Yuhao SHI, Ms Jinghao HEI

10:30

11:00

EMERGING TECHNOLOGIES: L7 - Serious Games

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Michele Campagna

11:00–11:10

Teaching planning cultures? Planning games for intercultural learning across borders

Speaker

Mrs Hélène Rouchet

11:10–11:20

Motivational Affordances of Gamified Participatory Experiences

Speaker

Mrs Çisem Yaşın

11:20–11:30

Emerging Tools for Urban Climate Governance: Decoding Public Participation in Serious Games

Speaker

Ms Melike Şengül

11:30–11:40

Intersection of Digital and Physical: Phygital Urban Public Spaces

Speaker

Ms Berna Gürkan

11:40–11:50

A Preliminary Research on Innovative Communication Mediums of Design in Participatory Planning and Community Design

Speaker

Dr YING-FEN CHEN

12:30

Friday 11 July

09:00

EMERGING TECHNOLOGIES: L8 - Virtual Reality

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Merve Deniz Tak

09:00–09:10

Testing Virtual Reality to communicate long-term scenarios in participatory planning processes

Speaker

Valentina Inés Tagliari

09:10–09:20

Integrating Mixed Reality and Large Vision Models to Measure Multi-Dimensional Urban Green Perception

Speaker

Dr YUEHAO CAO

09:20–09:30

Augmented Reality for Community-based Collaborative Urban Design: A Case Study of RWTH Aachen University Campus Transformation

Speaker

Liyuan Ma

09:30–09:40

“Love the Specific Scene of Life”: A Visual Analysis of User-Generated Narratives on Walkable City Spaces

Speaker

Izzy Yi JIAN

09:40–09:50

Visual perception and preference analysis of riverfront mountain landscapes in mountainous cities: A study based on user-generated image data

Speaker

Ms Lingna Zhu

10:30

11:00

EMERGING TECHNOLOGIES: L9 - Smart Cities | Social Media

Session | **Location:** YTU Davutpasa Campus, A1-05 | **Convener:** Prof. Fatih Terzi

11:00–11:10

Smart City Imaginaries: A Theoretical Framework for Socio-Technical-Spatial Analysis

Speaker

SaeBom Song

11:10–11:20

Unpacking the Black Box: How does the WeChat application reshape digitally enhanced collaborations between planning practitioners in China?

Speaker

Prof. Joon Sik Kim

11:20-11:30

Monitoring the Impact of Urban Regeneration on Green Infrastructure: Istanbul Case

Speaker

Ayşe Velioğlu

11:30-11:40

Harnessing Smart Technologies in Real Estate: A New Paradigm for Spatial Planning and Urban Development

Speaker

Mr Tarek Al-Rimawi

12:30