LBS2025 Conference Agenda

Session Overview	

Date: Wednesday, 07/May/2025

8:30am - 9:15am	**REG: LBS2025 Registration** Location: **Dipoli/Käpyaula** Dipoli, Otakaari 24, 02150 Espoo
9:00am - 9:15am	**COF1: Coffee to go** Location: **Dipoli/Käpyaula**
9:15am - 9:30am	**ADM1: Conference opening** Location: **Dipoli/Lumituuli** Chair: **Prof. Juha Oksanen**, Finnish Geospatial Research Institute, National Land Survey of Finland Opening words: **Prof. Mari Laakso,** Research Director, National Land Survey of Finland
9:30am - 10:15am	**KEY1: Keynote: Prof. Grant McKenzie, McGill University, Montreal, Canada** Location: **Dipoli/Lumituuli** Chair: **Prof. Henrikki Tenkanen**, Aalto University
10:15am - 10:30am	**PCH: Showcase pitching** Location: **Dipoli/Lumituuli** Chair: **Dr. Pyry Kettunen**, Finnish Geospatial Research Institute (FGI, NLS) **SurfaceAI Showcase - Classification of Road Surface Type and Quality** Alexandra Kapp **Data-Driven Destinations: GeoBigData for Tourism Planning and Development** Salvatore Amaduzzi **Collaborative GIS for Urban Drone Landing Sites** Pyry Kettunen, Mikko Rönneberg, Anssi Jussila, Miia Farstad, Leo Niemi, Saif Atiullah, Milos Mladenovic, Eija Honkavaara **Location Innovation Hub - Creating value together by combining Research and Business** Eeva Sankari **From 2D to 3D and from Single-User VR to Group Decision-Making** Čeněk Šašinka, Ondřej Kvarda, Jiří Čeněk, Zdeněk Stachoň
10:30am - 11:00am	**COF2: Coffee break and Showcases** Location: **Dipoli/Käpyaula**
11:00am - 12:30pm	**SES1: Session 1 - GeoAI and LBS** Location: **Dipoli/Lumituuli** Chair: **Dr. Meiliu Wu**, University of Glasgow **11:00am - 11:20am** **Geospatial Data Quality in the Era of Generative AI: Can we Trust the Geographic Information Produced by Large Language Models?** Joseph William Shingleton[1,2], Ana Basiri[1,2] 1: University of Glasgow, United Kingdom; 2: Alan Turing Institute, United Kingdom **11:20am - 11:35am** **Predicting Intra-City Mobility Flows without Using Historical Flow Data** Xucai Zhang, Haosheng Huang GeoAI Research Center, Ghent University, Belgium **11:35am - 11:50am** **Integrating Multi-Source Data to Construct Complete Pedestrian Networks** Yi-Wen Mo[1], Chiao-Ling Kuo[1,2] 1: Center for GIS, Research Center for Humanities and Social Sciences, Academia Sinica; 2: Department of Geography, National Taiwan University **11:50am - 12:05pm** **Enhancing Pedestrian Route Choice with LLaVA-Generated Descriptions** Si Ying Yau[1], Chiao-Ling Kuo[1,2] 1: Department of Geography, National Taiwan University; 2: Center for GIS, Research Center for Humanities and Social Sciences, Academia Sinica
12:30pm - 1:30pm	**LCH1: Lunch break** Location: **Dipoli/Restaurant Metso**
1:30pm - 3:00pm	**SES2: Session 2 - GeoAI and LBS, continued** Location: **Dipoli/Lumituuli** Chair: **Prof. Haosheng Huang**, Ghent University **1:30pm - 1:50pm** **Advancing Vision-Language Models with Spatial-Context Prompt Tuning: A Case Study in GeoAI-Empowered Image Geo-Localization** Meiliu Wu[1,2], Qunying Huang[2], Song Gao[2]

1: School of Geographical and Earth Sciences, University of Glasgow, United Kingdom; 2: Department of Geography, University of Wisconsin-Madison, United States

1:50pm - 2:10pm

Visual Localization Based on Data Augmentation and Structure Consistency

Zih-Ying Lee, Chia-Hao Tu, <u>Eric Hsueh-Chan Lu</u>
National Cheng Kung University, Taiwan

2:10pm - 2:25pm

Addressing Challenges in Textual Geolocation: Insights from Hebrew Place Descriptions

<u>Tal Bauman</u>[1], **Tzuf Paz-Argaman**[2], **Itai Mondshine**[2], **Reut sarfaty**[2], **Itzhak Omer**[3], **Sagi Dalyot**[1]
1: The Technion, Israel; 2: Bar Ilan University, Israel; 3: Tel Aviv University, Israel

2:25pm - 2:40pm

Those holding the fort: The complexity of human mobility beyond traditional patterns

<u>Roberto Murcio</u>
Birkbeck. London University, United Kingdom

3:00pm - 3:30pm	**COF3: Coffee break and Showcases** Location: **Dipoli/Käpyaula**

3:30pm - 5:00pm	**SES3: Session 3 - Visualisation, Mobile Cartography, and LBS** Location: **Dipoli/Lumituuli** Chair: **Prof. Zdeněk Stachoň**, Masaryk University **3:30pm - 3:50pm** **Enhancing Public Transport Information Visualization in Mobile Map Apps for Hikers** **Michael Förster, <u>Tumasch Reichenbacher</u>** Department of Geography, University of Zurich, Switzerland **3:50pm - 4:10pm** **Where Is My Recruit: Assessing Cartographic Proficiency Of Military Recruits Through Wearable Data Analytics** <u>Robbe Decorte</u>, **Dajo Criel, Kenzo Milleville, Maarten Slembrouck, Steven Verstockt** IDLab, Ghent University—imec, Belgium **4:10pm - 4:25pm** **Exploring Immersive Analytics for Spatiotemporal Patterns: A Case Study on Origin-Destination Data** <u>Chenyu Zuo</u>[1], **Cheng Fu**[2,3], **Stefan Ivanovic**[1], **Fabian Brülisauer**[1] 1: ETH Zurich, Switzerland; 2: University of Zurich; 3: China Agricultural University, Beijing, China **4:25pm - 4:40pm** **Systematic Analysis of Distance Learning in Higher Education Using Story Map** <u>Gabriela Godišková</u>[1,2], **Zdeněk Stachoň**[1,2], **Anna Auermüllerová**[1] 1: Department of Geography, Faculty of Science, Masaryk University, Czech Republic; 2: Department of Information and Library Studies, Faculty of Arts, Masaryk University, Czech Republic **4:40pm - 4:55pm** **Analysing Student Projects in Mobile Cartography: Trends, User Expectations and Educational Insights** <u>Eva Hauthal</u>, **Jakob Listabarth, Dirk Burghardt** Technische Universität Dresden, Germany

6:00pm - 9:00pm	**SOC1: Ice breaker** Location: **Aalto/C130a Learning Hub Greenhouse** Konemiehentie 2, 02150 Espoo

Date: Thursday, 08/May/2025

9:00am - **9:45am**	**KEY2: Keynote: Prof. Anahid Basiri, University of Glasgow, UK** Location: **Dipoli/Lumituuli** Chair: **Prof. Juha Oksanen**, Finnish Geospatial Research Institute, National Land Survey of Finland
9:45am - **10:45am**	**SES4: Session 4 - Place modelling and understanding** Location: **Dipoli/Lumituuli** Chair: **Dr. Tumasch Reichenbacher**, University of Zurich **9:45am - 10:00am** **Quantifying the role of nature in tourism at regional and global scales** <u>Matti Hästbacka</u>, Tatu Leppämäki, Tuuli Toivonen University of Helsinki, Finland **10:00am - 10:15am** **Comparing Habitants' and Visitors' Perceptions of Places via Social Media Reviews** <u>Qingya Cheng</u>, Rui Zhu, Richard Harris University of Bristol, United Kingdom **10:15am - 10:30am** **Place Modelling by Clustering Foursquare POIs in a Place2Vec-Based Approach** <u>Leyi Xu</u> University of Helsinki, Finland **10:30am - 10:45am** **Relaxation and Attention: The Impacts of Place on Brain Activity Captured by EEG** <u>Jiaxin Feng</u> Dartmouth College, United States of America
10:45am - **11:15am**	**COF4: Coffee break and Showcases** Location: **Dipoli/Käpyaula**
11:15am - **12:30pm**	**SES5: Session 5 - Disruptions and security in LBS** Location: **Dipoli/Lumituuli** Chair: **Prof. Carsten Keßler**, Bochum University of Applied Sciences **11:15am - 11:35am** **Effects of prolonged GNSS jamming on a continuously operating monitoring station** Mika Saajasto[1], M. Zahidul H. Bhuiyan[1], Topi Rikkinen[2], Simo Marila[2], Sanna Kaasalainen[1] 1: Finnish Geospatial Research Intitute, Finland; 2: National Land Survey, Finland **11:35am - 11:50am** **Piloting Status of the Location-enabled LEDSOL Solution for Access to Clean Water in Africa** <u>Elena Simona Lohan</u>[1], Oana Cramariuc[2], Tomkouani Kodom[3], Hafida Lebik[4], Kathrin Bierwirth[5] 1: Tampere University, Finland; 2: Centrul IT Pentru Stiinta si Tehnologie, Bucharest, Romania; 3: Laboratory of Applied Hydrology and Environment, University of Lome, Togo; 4: UDES/EPST–Centre de Developpement des Energies Renouvelables, Tipaza, Algeria; 5: Institut fur Sozialforschung und Sozialwirtschaft (iso) e.V., Saarbrucken, Germany **11:50am - 12:05pm** **Efficient Navigation for Parcel Delivery** <u>Toshihiro Osaragi</u>, Yuya Taguchi Institute of Science Tokyo, Japan **12:05pm - 12:25pm** **ICA Commission on Location Based Services (LBS); ICA Commission on Cognitive Issues in Geographic Information Visualization; ICA Commission on Digital Transformation of National Mapping Agencies** <u>Jukka M. Krisp</u> University Augsburg, Germany
12:30pm - **1:30pm**	**LCH2: Lunch break** Location: **Dipoli/Restaurant Metso**
1:30pm - **2:15pm**	**KEY3: Keynote: Mr. Antti Vuorela, Helsinki Region Transport (HSL), Finland** Location: **Dipoli/Lumituuli** Chair: **Dr. Pyry Kettunen**, Finnish Geospatial Research Institute (FGI, NLS)
2:15pm - **3:15pm**	**SES6: Session 6 - Crowdsourcing and location privacy** Location: **Dipoli/Lumituuli** Chair: **Prof. Jukka M. Krisp**, University Augsburg **2:15pm - 2:30pm** **Data-Driven and Evidence-Based Computing Algorithms to Detect Anomalies of Cycling Facilities** Kewei Ren, <u>Chun-Hsing Ho</u> University of Nebraska-Lincoln, United States of America **2:30pm - 2:45pm**

Making Cultural Ecosystem Services Truly Cultural: Mapping Outdoor Experiences in Ukraine with Telegram

Oleksandr Karasov[1], Tiina Rinne[2], Olle Järv[3], Henrikki Tenkanen[1]

1: GIST Lab, Department of Built Environment, Aalto University, Finland; 2: Transport Research Center Verne, Tampere University, Finland; 3: Digital Geography Lab, Department of Geosciences and Geography, University of Helsinki, Finland

2:45pm - 3:00pm

Rethinking Public Participation: Including Individuals with Intellectual Disabilities

Carsten Keßler, Christian Danowski-Buhren

Bochum University of Applied Sciences, Germany

3:00pm - 3:15pm

Geoprivacy Open Data – A New FAIR Personal-Level Mobility Dataset for Research and Innovation

Juha Oksanen[1], Anna Brauer[2], Ville Mäkinen[1]

1: Finnish Geospatial Research Institute, National Land Survey of Finland, Finland; 2: Chair of Geoinformatics, Dresden University of Technology, Germany

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3:15pm - 3:45pm	**COF5: Coffee break and Showcases** Location: Dipoli/Käpyaula

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3:45pm - 5:00pm	**SES7: Session 7 - Spatial data science and big data analytics** Location: Dipoli/Lumituuli Chair: **Dr. Urska Demsar**, University of St Andrews

3:45pm - 4:00pm

Why Understanding the Big Data We Use for Research Matters – a Global Analysis of Flickr

Tatu Leppämäki[1], Vuokko Heikinheimo[1], Johanna Eklund[1], Anna Hausmann[1,2], Tuuli Toivonen[1]

1: Digital Geography Lab, Department of Geosciences and Geography, University of Helsinki, Finland; 2: Department of Biological and Environmental Science, School of Resource Wisdom, University of Jyväskylä, Finland

4:00pm - 4:15pm

Experienced Social Segregation in Fifteen Minute Cities: A Data and Modeling Approach

Davi Gressler[1], Hugo Barbosa[2]

1: University of São Paulo; 2: University of Exeter, Computer Science Department

4:15pm - 4:30pm

Comparative Modelling of Cycling Route Choice by Bikes and E-Bikes: The Case Study of Tartu, Estonia

Martin Haamer[1], Miroslawa Lukawska[2], Jacek Pawlak[3], Age Poom[1], Anto Aasa[1], Aruna Sivakumar[3]

1: University of Tartu, Estonia; 2: Technische Universität Dresden, Germany; 3: Imperial College London, United Kingdom

4:30pm - 4:45pm

Exploring the regional changes in the structure of student mobility in Europe: before and after Covid-19

Tuomas Väisänen[1], Milad Malekzadeh[1], Oula Inkeröinen[1,2], Olle Järv[1]

1: University of Helsinki, Finland; 2: Statistics Finland, Finland

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6:30pm - 10:00pm	**SOC2: Conference dinner** Location: Restaurant Hima & Sali Kaapelitehdas (Cable factory), Tallberginkatu 1 C, 00180 Helsinki

Date: Friday, 09/May/2025

9:30am - 10:15am	**KEY4: Keynote: Prof. Heidi Kuusniemi, University of Vaasa, Finland** Location: **Dipoli/Lumituuli** Chair: **Dr. Ville Mäkinen**, Finnish Geospatial Research Institute in the National Land Survey of Finland
10:15am - 10:45am	**COF6: Coffee break** Location: **Dipoli/Käpyaula**
10:45am - 12:00pm	**SES8+9: Session 8+9 - Spatial data science and big data analytics, continued; User experience and data-driven systems in LBS** Location: **Dipoli/Lumituuli** Chair: **Dr. Eva Hauthal**, TUD Dresden University of Technology **10:45am - 11:00am** **A pan-European analysis on exposure to greenery during active travel – insights from using open mobility data** Robert Klein, Elias Willberg, Silviya Korpilo, Tuuli Toivonen University of Helsinki, Finland **11:00am - 11:15am** **Implementing Evidence Based Navigation Systems in Medical Buildings** Kateřina Jochecová, Ondřej Kvarda, Gabriela Godišková, Ladislava Zbiejczuk Suchá Department of Information and Library Studies, Faculty of Arts, Masaryk University, Czech Republic **11:15am - 11:30am** **Locative Audio Technology for Exploring Green Stormwater Infrastructure: A Preliminary Study** Nuzhat T. Nawshin[1], Robert E. Roth[1], Annika Anderson[1], Gareth Baldrica-Franklin[1], R. Justin Hougham[3], David A. Hart[2] 1: University of Wisconsin-Madison, USA; 2: University of Wisconsin Sea Grant Institute, USA; 3: Division of Extension, University of Wisconsin-Madison, USA **11:30am - 11:45am** **Extending the Cartography Classroom with LBS: the Design, Implementation, and Preliminary Evaluation of a Guided Tour Educational Module.** Gareth Baldrica-Franklin University of Wisconsin—Madison, United States of America **11:45am - 12:00pm** **Measuring Regional Attractiveness in Europe Through Regional Mobility Patterns Using Big Data** Milad Malekzadeh, Tuomas Väisänen, Olle Järv Digital Geography Lab, Department of Geosciences and Geography, University of Helsinki, Finland
12:00pm - 12:30pm	**ADM2: Conference closing** Location: **Dipoli/Lumituuli** Chair: **Prof. Juha Oksanen**, Finnish Geospatial Research Institute, National Land Survey of Finland
12:30pm - 1:30pm	**LCH3: Lunch break** Location: **Dipoli/Restaurant Metso**