

## AGILE 2024 Programme

The 27th AGILE Conference:  
Geographic Information Science for a Sustainable Future  
University of Glasgow, Glasgow, UK, 4-7 June 2024

4 June Tuesday	5 June Wednesday	6 June Thursday	7 June Friday
8:30 – 15:00 Registration			
9:00 – 11:00 Workshops <i>W1, W2, W3, W4, W5</i>	9:00 – 9:30 Welcome		
	9:30 – 10:30 <b>S1</b> Keynote: Dr. Somayeh Dodge	9:00 – 10:00 <b>S5</b> Keynote: Dr. Rafael H. M. Pereira	8:30 – 9:30 <b>S10</b> Keynote: Dr. Alessia Calafiore
11:00 – 11:15 Coffee break	10:30 – 11:00 Coffee break	10:00 – 10:30 Coffee break Poster session (continued)	9:30 – 12:00 <b>S11</b> Best paper competition & Closing
11:15 – 13:00 Workshops <i>W1, W2, W3, W4, W5</i>	11:00 – 12:30 <b>S2</b> <i>S2a, S2b, S2c</i>	10:30 – 12:00 <b>S6</b> <i>S6a, S6b, S6c</i>	12:00 – 12:10 Announcement of AGILE 2025 Conference
13:00 – 14:00 Lunch	12:30 – 13:30 Lunch	12:00 – 13:00 Lunch	12:10 – 13:10 Lunch
14:00 – 16:00 Workshops <i>W6, W7, W8, W9, W10</i>	13:30 – 15:00 <b>S3</b> <i>S3a, S3b, S3c</i>	13:00 – 14:00 <b>S7</b> Plenary AGILE Annual Assembly	End of Conference
16:00 – 16:15 Coffee break	15:00 – 15:30 Coffee break	14:00 – 15:30 <b>S8</b> Published papers <i>S8a, S8b, S8c</i>	
16:15 – 18:00 Workshops <i>W6, W7, W8, W9, W10</i>	15:30 – 17:00 <b>S4</b> <i>S4a, S4b, S4c</i>	15:30 – 16:00 Coffee break Poster session (continued)	
	17:00 – 17:30 Poster lightening talk 17:30 – 18:15 Poster session	16:00 – 18:00 <b>S9</b> Tutorials <i>T1, T2</i>	
19:00 – 23:00 Icebreaker Reception (Sponsored by ESRI)	18:30 – 19:30 Social Activities (Campus tour, City centre tour, whisky taste)	19:00 – 22:00 Conference dinner	

### Venue

ARC 237A: <i>W1, W6</i>	ARC Studio 2: <i>W4, W9</i>
ARC 237B: <i>W2, W7</i>	ARC Room 225: <i>W5, W10</i>
ARC 237C: <i>W3, W8</i>	Foyer@JWS: Poster exhibition
SCW Room 201: <i>S1, S2a, S3a, S4a, S5, S6a, S7, T1, S8a, S10, S11</i>	
SCW Room 101: <i>S2b, S3b, S4b, S6b, T2, S8b</i>	
JWS Room 375: <i>S2c, S3c, S4c, S6c, S8c</i>	

### Social Events

Icebreaker reception      *Òran Mór*  
Social Activities          *Meet in front of SCW at 18:15 on Wednesday 5 June*

Conference dinner      *The City Chambers (transport from/to University is included, see Day 3 for details)*  
**Registration & Lunch**      *4 June: Exhibition Space@ARC; 5-7 June: Foyer@SCW*

## Day 1: Tuesday 4 June

**@ARC**

**Registration**      **8:30 – 15:00**      **Exhibition Space**

**Workshops**      **9:00 – 13:00**  
(Coffee break)      (11:00 – 11:15)

**W1**      **@Room 237A**  
Mapping with communities: contemporary approaches and challenges  
*Diego Pajarito Grajales & Anne Schauss*

**W2**      **@Room 237B**  
Education and training for a new generation of geospatial scientists  
*Justine Blanford*

**W3**      **@Room 237C**  
Geoanalytics and spatial data science for eXtended Realities - The theoretical, practical, and impactful opportunities of eXtended Realities for the geoinformation sciences  
*Alexander Klippel*

**W4**      **@Studio 2**  
Mapping Minds: Exploring the Intersection of Spatial Cognition, Computational Design, Neuroscience and Spatial Data Science  
*Jia Wang*

**W5**      **@Room 225**  
FAIR Research Objects in GIScience  
*Carsten Keßler*

**Lunch**      **13:00 – 14:00**      **Exhibition Space**

**Workshops/Tutorials**      **14:00 – 18:00**  
(Coffee break)      (16:00 – 16:15)

**W6**      **@Room 237A**  
Current trends of Volunteered Geographic Information in National Mapping and Cadastral Agencies  
(Organised by EuroSDR)  
*Juha Oksanen*

**W7**      **@Room 237B**  
Knowledge mapping of people and publications  
*Rob Lemmens*

**W8**      **@Room 237C**  
Humans in the City: Artificial Intelligence Research and Urban Environments  
*Ioannis Giannopoulos*

**W9**      **@Studio 2**  
Modelling Space and Time with GAMS: spatially and temporally varying coefficient models and Spatial Decision Making in R  
*Lex Comber*

**W10**      (14:00 – 18:00)      **@Room 225**  
Mapping with EuroRegionalMap Open Data and QGIS  
*Barend Köbben*

**Icebreaker Reception (Sponsored by ESRI)**      **19:00 – 23:00**      **@ Òran Mór**

## Day 2: Wednesday 5 June

**Registration** 8:30 – 15:00 Foyer@SCW

**Welcome** 9:00 – 9:30 Room 201@SCW

**S1 Keynote** 9:30 – 10:30 Room 201@SCW

Session chair: Sabine Timpf

Data-driven Movement Analysis for Understanding Human Behavior and Interaction in Changing Urban Environments

*Dr. Somayeh Dodge*

**Coffee break** 10:30 – 11:00

**S2 Full/short Paper Sessions** 11:00 – 12:30

**S2a: GeoAI** Room 201@SCW

Session chair: Ana Basiri

Dynamic construction of visible knowledge graph based on 3D geographic scene for intelligent bridge management

*Jun Zhu and Yukun Guo*

Artificial intelligence for greater transparency in housing price estimation

*Christian Mueller-Kett*

Unveiling historical agroecological patterns through artificial intelligence (AI) and Geographic Information Systems (GIS)

*Cláudia M. Viana and Diogo Carvalho*

Occupation Prediction with Multimodal Learning from Tweet Messages and Google Street View Images

*Xinyi Liu, Bo Peng, Meiliu Wu, Mingshu Wang, Heng Cai and Qunying Huang*

**S2b: Remote sensing** Room 101@SCW

Session chair: Evelyn Uuema

Road Network Mapping from Multispectral Satellite Imagery: Leveraging Deep Learning and Spectral Bands (full paper)

*Samuel Hollendonner, Negar Alinaghi and Ioannis Giannopoulos*

Vector data cubes for features evolving in space and time

*Lorena Abad, Martin Sudmanns and Daniel Hölbling*

Water Body Detection Using Sen2Cube.at and Comparison to Open Data - Assessing for Floating Photovoltaics

*Franziska Hübl, Hannah Augustin, Martin Sudmanns, Dirk Tiede and Johannes Scholz*

Estimating hyperlocal traffic CO2 by customizing spatial relationship: An analysis from Digital Footprint data

*Ye Tian, Joao Porto de Albuquerque and Nick Bailey*

**S2c: GIS for a sustainable future** Room 375@JWS

Session chair: Peter Mooney

Knowledge-Based Identification of Urban Green Spaces: Allotments (full paper)

*Irada Ismayilova and Sabine Timpf*

A Spacematrix and Clustering Approach to understanding the morphology of Singapore's Housing Development Board (HDB) Estates

*Cai Wu, Jiong Wang, Mingshu Wang and Menno-Jan Kraak*

Patterns of (dis)arrangement: revealing differences in perceived neighbourhood boundaries in Lisbon

*Vicente Tang and Marco Painho*

Using a hybrid semi-intergrated spatial allocation model to model future housing allocation

*Bas van Bommel, Irena Itova and Ismay Bax*

**Lunch**

**12:30 – 13:30**

**Foyer@SCW**

**S3 Full/short Paper Sessions**

**13:30 – 15:00**

**S3a: Movement analysis**

Session chair: [Katarzyna Sila-Nowicka](#)

**Room 201@SCW**

The Impact of Traffic Lights on Modal Split and Route Choice: A use-case in Vienna (full paper)

*Ioanna Gogousou, Manuela Canestrini, Negar Alinaghi, Dimitrios Michail and Ioannis Giannopoulos*

Assessment of bicycle accessibility to mobility hubs under different criteria for cycling network quality

*Lucas van der Meer, Christian Werner and Martin Loidl*

The impact of transit catchment size on modeling the integration between shared e-scooters and public transport

*Pengxiang Zhao, Aoyong Li and Ali Mansourian*

Exploring User Semantic Annotation from Trajectories in the Scenario of Shared Locations

*Jens Golze, Monika Sester, Udo Feuerhake and Claus Brenner*

**S3b: GeoAI and knowledge representation**

**Room 101@SCW**

Session chair: [Carsten Kessler](#)

A model-driven methodology for integrating heterogeneous 3D spatial urban entities (full paper)

*Diego Vinasco-Alvarez, Clemetn Colin, John Samuel, Sylvie Servigne, Christophe Bortolasso and Gillese Gesquiere*

GetFeedback!: Feedback-based Learning while Identifying a Caravan Site Location

*Eva Nuhn, Laura Spang and Sabine Timpf*

Measuring Geographic Diversity of Foundation Models with a Natural Language—based Geo-guessing Experiment on GPT-4

*Zilong Liu, Krzysztof Janowicz, Kitty Currier, and Meilin Shi*

A collaborative approach for the identification of thermal hotspots: from remote sensing data to urban planning interventions

*Claire Gallacher, Susanne Benz, Denise Boehnke and Mathias Jehling*

**S3c: GIS for a sustainable future**

**Room 375@JWS**

Session chair: [Marco Painho](#)

A gamified platform to encourage sustainable behaviours (full paper)  
*Manuel Soares, Teresa Romão and Armanda Rodrigues*

Mapping the development of green in gardens over time: is your neighbour's garden really greener?  
*Lynn Bouwknecht, Eric Koomen and Jan Rouwendal*

Construction of a walkability quality dataset in GIS: the case study of Berlin  
*Federica Gaglione*

Use of iNaturalist Biodiversity Contribution Data for Modelling Travel Distances to Parks Across the United States  
*Jiping Cao and Hartwig H Hochmair*

**Coffee break**

**15:00 – 15:30**

**S4 Full/short Paper Sessions**

**15:30 – 17:00**

**S4a: Spatial data and processing**

**Room 201@SCW**

[Session chair: Sabine Timpf](#)

Process Analysis in Humanitarian Voluntary Geographic Information: the case of the HOT Tasking Manager (full paper)  
*Dagoberto José Herrera-Murillo, Héctor Ochoa-Ortiz, Umair Ahmed, Franciso Javier López-Pellicer, Barbara Re, Andrea Polini and Javier Noguerras-Iso*

Data Quality of OpenStreetMap data for Industrial Sites in the Arctic  
*Daniel Kwakye, Sabrina Marx, Benjamin Herfort, Moritz Langer and Sven Lautenbach*

EyeCatchingMaps, a Dataset to Assess Saliency Models on Maps  
*Laura Wenclik and Guillaume Touya*

Lessons from spatial transcriptomics and computational geography in mapping the transcriptome  
*Alexis Comber, Rachel Queen, Eleftherios Zormpas and Simon Cockell*

**S4b: Spatial analysis and statistics**

**Room 101@SCW**

[Session chair: Ana Cristina Costa](#)

Random Data Distribution for Efficient Parallel Point Cloud Processing (full paper)  
*Balthasar Teuscher and Martin Werner*

Multilevel Geographical Process Models (MGPMs): A Novel Framework for Modeling Individual- and Multi-Level Spatial Process Heterogeneity  
*Sui Zhang and Ziqi Li*

The Challenges of Line Buffers  
*Šimon Leitgeb*

Smoothing the Ride: A Surface Roughness-Centric Approach to Bicycle Routing  
*Pablo S. Löw and Jukka M. Krisp*

**S4c: Semantics**

**Room 375@JWS**

[Session chair: Simon Scheider](#)

Towards semantic enrichment of Earth Observation data: The LEODS framework (full paper)  
*Daniela F. Milon-Flores, Camille Bernard, Jérôme Gensel, Gregory Giuliani and Bruno Chatenoux, and Hy Dao*

Locality and transferability: examining pre-built lexicons to elicit landscape values from natural language  
*Inhye Kong and Ross Stuart Purves*

Land Evaluation Configuration using Answer Set Programming

*Mina Karamesouti and Etienne Tignon*

Comparative Evaluation of Keyphrase Extraction Tools and Ontology Enrichment for Semantic Representation of Climate Change Scientific Reports

*Eirini Katsadaki and Margarita Kokla*

**Poster lightening talk**

**17:00 – 18:00 Room 201@SCW**

Session chair: [Juha Oksanen](#)

**Social Activities** (Campus tour/City centre tour/whisky taste)

**18:30 – 19:30**

## Day 3: Thursday 6 June

**Registration** **8:30 – 15:00** **Foyer@SCW**

**S5 Keynote** **9:00 – 10:30** **Room 201@SCW**

[Session chair: Mingshu Wang](#)

Spatial Data Science for Sustainable and Inclusive Cities  
*Dr. Rafael H. M. Pereira*

**Coffee break** **10:00 – 10:30**

**S6 Full/short Paper Sessions** **10:30 – 12:00**

**S6a: GIS education, tools, and datasets** **Room 201@SCW**

[Session chair: Fernando Benitez](#)

OER4SDI: Open Educational Resources for Spatial Data Infrastructures (full paper)  
*Carsten Keßler, Albert Remke, Henryk Hodam, Fabian Przybylak and Andreas Rienow*

Development of a tool to calculate distance for veterinary epidemiological applications  
*Mirco Cazzaro, Francesca Scolamacchia, Paolo Mulatti and Nicola Ferrè*

Educating for Open and Reproducible Research: Lessons from a Geospatial MSc program  
*Frank Ostermann*

DGGSTools: An Open Source Python Package for the Manipulation of Vector and Raster Datasets in the rHEALPix Discrete Global Grid System  
*Sergio Martin-Segura, Rubén Béjar and F. Javier Zarazaga-Soria*

**S6b: GeoVisualization** **Room 101@SCW**

[Session chair: Auriol Degbelo](#)

Explore maps as you read a comic book (full paper)  
*Bérénice Le Mao and Guillaume Touya*

UV printed tactile maps of historic parks  
*Jakub Wabiński, Andrzej Araszkiewicz, Albina Mościcka, Emilia Śmiechowska-Petrovskij and Damian Kiliszek*

Combination of Augmented Reality and 3D Geographic Information: A User perspective towards Feature-Based Augmented Reality  
*Te-Lun Huang and Jong-Hong Hong*

A methodological inquiry for anchoring pan-scalar maps  
*Maïeul Gruget, Quentin Potié and Guillaume Touya*

**S6c: Social media and VGI** **Room 375@JWS**

[Session chair: Henrikki Tenkanen](#)

Evaluating geotemporal behaviours in OpenStreetMap contributors (full paper)  
*Guy Solomon, Dominick Sutton, Merve Polat Kayali, Xinyi Yuan, Zoe Gardner and Ana Basiri*

Multimodal Geo-Information Extraction from Social Media for Supporting Decision-Making in Disaster Management  
*David Hanny and Bernd Resch*

Linking social media with hedonic house prices to identify neighbourhood change

*Alexis Comber, Minh Kieu, Bui Quang Thanh and Nick Malleson*

Constructing Spatio-temporal Disaster Knowledge Graph from Social Media  
*Yen-Ching Liu and Chiao-Ling Kuo*

**Lunch** **12:00 – 13:00** **Foyer@SCW**

**S7 Plenary AGILE Annual Assembly** **13:00 – 14:00** **Room 201@SCW**

**S8 Short/Published Paper Sessions** **14:00 – 15:30**

**S8a: Movement and road network** **Room 201@SCW**

[Session chair: Carmen Cabrera-Arnau](#)

Spatio-temporal Spread of Disruptions in Interconnected Supply Networks (short paper)  
*Matthias Winter and Johannes Scholz*

Graph convolutional networks for street network analysis with a case study of urban polycentricity in Chinese cities  
*Ding Ma, Fangning He, Yang Yue, Renzhong Guo, Tianhong Zhao and Mingshu Wang*

Modeling Activity Spaces using Big Geo-Data: Progress and Challenges  
*Yihong Yuan and Xu Yang*

Measuring spatial inequality of urban park accessibility and utilisation: A case study of public housing developments in Auckland, New Zealand  
*Jessie Colbert, I-Ting Chuang and Katarzyna Sila-Nowicka*

Identifying tourism attractiveness based on intra-destination tourist behaviour: evidence from Wi-Fi data  
*Luning Li, Zixuan Pei, Qiang Li, Fengxin Hao, Xiang Chen and Jin Chen*

**S8b: Remote and social sensing** **Room 101@SCW**

[Session chair: Carlos Granell](#)

A data-driven approach to estimate travel-related carbon emissions with high spatial and temporal granularity (short paper)  
*Henrikki Tenkanen, Ngoc Chau and Subhrasankha Dey*

Seasonal dynamics of fallow and cropping lands in the broadacre cropping region of Australia  
*Zunyi Xie, Yan Zhao and Andries Potgieter*

Mapping local-scale working population and daytime population densities using points-of-interest and nighttime light satellite imageries  
*Yeran Sun, Jing Xie and Yu Wang*

Assessing the socio-demographic representativeness of mobile phone application data  
*Michael Sinclair, Saeed Maadi, Qunshan Zhao, Jinyun Hong, Andrea Ghermandi and Nick Bailey*

The Synthetic Population Catalyst Toolkit  
*Fernando Benitez-Paez, Hadrien Salat, Dustin Carlino, Daniel Arribas-Bel, Mark Birkin and Anna Zanchetta*

Supervised Versus Semi-Supervised Urban Functional Area Prediction: Uncertainty, Robustness and Sensitivity

*Rui Deng, Yanning Guan, Danlu Cai, Tao Yang, Klaus Fraedrich, Chunyan Zhang, Jiakui Tang, Zhouwei Liao, Zhishou Wei and Shan Guo*

Identifying Hard-to-Decarbonize houses from multi-source data in Cambridge, UK  
*Maoran Sun and Ronita Bardhan*



Session chair: [Lex Comber](#)

The Spatiotemporal Patterns of Community Vulnerability in the U.S. Mobile Bay from 2000–2020  
*Hemal Dey, Wanyun Shao, Shufen Pan and Hanqin Tian*

How does the choice of DEMs affect catchment hydrological modeling?  
*Desalew Meseret Moges, Evelyn Uuemaa, Alexander Kmoch, Holger Virro, Raj Cibin, A.N. Rohith, Carmelo Conesa-García and Alberto Martínez-Salvador*

Mapping Small Watercourses from DEMs with Deep Learning—Exploring the Causes of False Predictions  
*Christian Koski, Pyry Kettunen, Justus Poutanen, Lingli Zhu and Juha Oksanen*

Geoinformatics approach to classifying landslide hazard in The Hantana Mountain and its vicinity in Sri Lanka  
*Ashvin Wickramasooriya and Sathya Dilini*

Multiscale analysis of the influence of street built environment on crime occurrence using street-view images  
*Zhanjun He*

How do people perceive driving risks in small towns? A case study in Central Texas  
*Xiao Li, Greg Rybarczyk, Wei Li, Muhammad Usman, Jiahe Bian, Andong Chen and Xinyue Ye*

How Semi-Urbanisation Drives Expansion of Rural Construction Land in China: A Rural-Urban Interaction Perspective  
*Yang Wang, Chengchao Zuo and Mengke Zhu*

Location Optimization of Emergency Medical Services: Considering Joint Service Coverage of Ambulances and Emergency Centers  
*Weicong Luo*

**Coffee break****15:30 – 16:00****S9 Tutorials****16:00 – 18:00****T1****Room 201@SCW**

Open data and methods for assessing active mobility options: Routing in the context of bikeability and walkability

*Adam Rousell and Christian Werner*

**T2****Room 101@SCW**

Spatial modelling and interpretability with Random Forest

*Holger Virro*

**Conference dinner****19:00 – 22:00****@The City Chambers**

Two coaches will wait on University Ave., near the main gate, and will leave at 6:30 PM. The same coaches will wait outside the City Chambers at 10:00 PM and take the participants back to the University.

## Day 4: Friday 7 June

### S10 Keynote

8:30 – 9:30 Room 201@SCW

Session chair: Rob Lemmens

Urban Data Science for Sustainable Mobility Transitions  
*Dr. Alessia Calafiore*

### S11 Best paper competition

9:30 – 12:30 Room 201@SCW

Session chair: Rob Lemmens

#### Best full paper competition

FreeMapRetrieve: Freehand Gestures for Retrieve Operations in Large-Screen Map Environments  
*Jonas Hurst, Auriol Degbelo and Christian Kray*

Developing a city-specific walkability index through a participatory approach  
*Matias Cardoso, Vasileios Milias and Maurice Hartevelde*

Enhancing toponym identification: Leveraging Topo-BERT and open-source data to differentiate between toponyms and extract spatial relationships  
*Joseph Shingleton and Ana Basiri*

#### Best short paper competition

Geolocating Bees by Translating the Waggle Dance into Spatial Coordinates  
*Sylvain Galopin, Guillaume Touya and Freddie-Jeanne Richard*

Studying the spatial structure of urban heat exposure in Berlin utilising Moran drop plots and seismograms

*René Westerholt and Florian Klopfer*

A software tool for generating synthetic spatial data for GIS-classroom usage  
*Patrick Gorry and Peter Mooney*

### Announcement of AGILE 2025

12:30 – 12:40 Room 201@SCW

### Lunch

12:40 – 13:40 Foyer@SCW

### End of Conference

### Presentation time

Full papers: 30 min (20 min presentation + 10 min Q&A)

Short papers: 20 min (15 min presentation + 5 min Q&A)

Published papers: 10 min (8 min presentation + 2 min Q&A)

## Posters

Assessing 3-Dimensional Air Pollution Distribution in the Zhunan-Miaoli Area, Taiwan Using a Hybrid Spatial Model

*Jun-Jun Su, Chia-Wei Hsu, Yinq-Rong Chern and Chih-Da Wu*

3-D Hybrid Spatial Modeling for PM1.0 Air Pollution Assessment: A Case Study of the Zhunan-Miaoli Area, Taiwan

*Chia-Wei Hsu, Yinq-Rong Chern, Jun-Jun Su, Candera Wijaya, Yu-Cheng Chen, Shih-Chun Lung, Ta-Chih Hsiao, Tee-Ann Teo, Yi-Liang Shih and Chih-Da Wu*

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

*Zhaoya Gong, Chenglong Wang and Bin Liu*

Spectral indices in RAPS images captured with the Mapir Survey3 multispectral camera, case of Villapinzón – Colombia

*Erika Upegui and Karol Chicuazuque*

Implementation and assessment of Ikonos satellite image fusion with Deep Convolutional Neural Networks, PCA and Gram-Schmidt using Matlab

*Javier Medina, Ivan Carrillo and Erika Upegui*

An adaptive road width approach for multiscale visualization of high-density road networks based on unstructured raster data

*Yilang Shen, Yiqing Zhang, Wanyue Dai, Yang Chen and Jinyu Deng*

Migratory Geomagnetic Navigation to Stopovers, Breeding and Wintering Grounds

*Ali Moayed, Jed Long, Andrea Kölzsch and Urska Demsar*

Thriving Cities. Assessing socio-ecological urban structures and subjective well-being in the 15 Minute City. The case of Utrecht, Netherlands.

*Nohemi Ramirez Aranda, Alexander Wandl and Birgit Hausleitner*

Assessing Hospital Capacity and Patient Demand Across London: A Spatial Analysis

*Sijie Tan and Yijing Li*

Navigating Heat Stress: Integrating heat stress modelling and routing to assist citizens and planners

*Christina Ludwig, Johannes Fürle, Kathrin Foshag, Sven Lautenbach, Adam Rousell and Alexander Zipf*

Energy Vulnerability in England and Wales: A Spatial Temporal Analysis Using A Composite Indicator.

*Cameron Ward, Caitlin Robinson, Alex Singleton and Francisco Rowe*

Using computer vision with pre-existing crowdsourced data for low-cost transport data collection in LMICs

*Giles Lipscombe and Mark Dimond*

Digital and physical accessibility to essential services and opportunities: how far are people living in Estonia at risk of social exclusion?

*Alessandro Giordano and Patrizia Sulis*

Identifying the appropriate spatial resolution using local indicators of spatial association

*Nicholas Hamm*

Participatory AI validation within the IDEAMAPS Data Ecosystem

*Diego Fabian Pajarito Grajales, Andrew Clarke and Grant Tregonning*

Where England's Cities Are Growing: Evidence from Big Building Footprint Data

*Xinyi Yuan, Ziqi Li and Mingshu Wang*

GeoEducation in Collaborative Immersive Virtual environment

*Hana Svedova, Katerina Johecova, Ondrej Kvarda, Zdenek Stachon, Cenek Sasinka and Pavel Ugwitz*

The Impact of Perspective and Cultural Variations on Navigational Skills within Immersive Virtual Reality Environments

*Ondřej Kvarda, Zdeněk Stachoň, Čeněk Šašinka and Jiří Čeněk*

HexMapper: A sketch map tool to capture 'wide-view' domains of spatial perception and knowledge

*Mariana Vallejo Velázquez and Ourania Kounadi*

Deriving mobility insights from Mobile App Data: A Comparative Study on Distance Thresholds for Stay Detection

*Varun Raturi and Faraz Malik Awan*

Travel Mode Detection: Harnessing the Power of Mobile Phone Apps Data through Machine Learning

*Faraz Malik Awan and Varun Raturi*

Quantifying Agricultural Land Use Changes from 1995 to 2018 through Intensity Analysis

*Cláudia M. Viana, Diogo Carvalho and Jorge Rocha*

A Comparative Study on the Visualization Strategies of Spatio-Temporal Phenomena

*Yu-Wen Chiu and Jung-Hong Hong*

Landsat Time Series Analysis towards a Settlement Typology for Mankweng and Environs (South Africa) in Support of Scaling Coproduced Knowledge

*Felipe Vásquez Tavera, Deepthi Patric and Gertrud Schaab*

Spatio-temporal Interpolation and Analysis of Annual Mean Temperature of Germany (1995 – 2021)

*Kamal Shahi, Yeshey Samdrup, Yohannes Abrha Mulaw, Ana Cristina Costa and Marco Painho*

AccessUK, an open-source tool for integrating spatial accessibility with R

*J Rafael Verduzco-Torres*

Should We Convert One-Way to Two-Way Streets? The impact on travelled distance and modal split

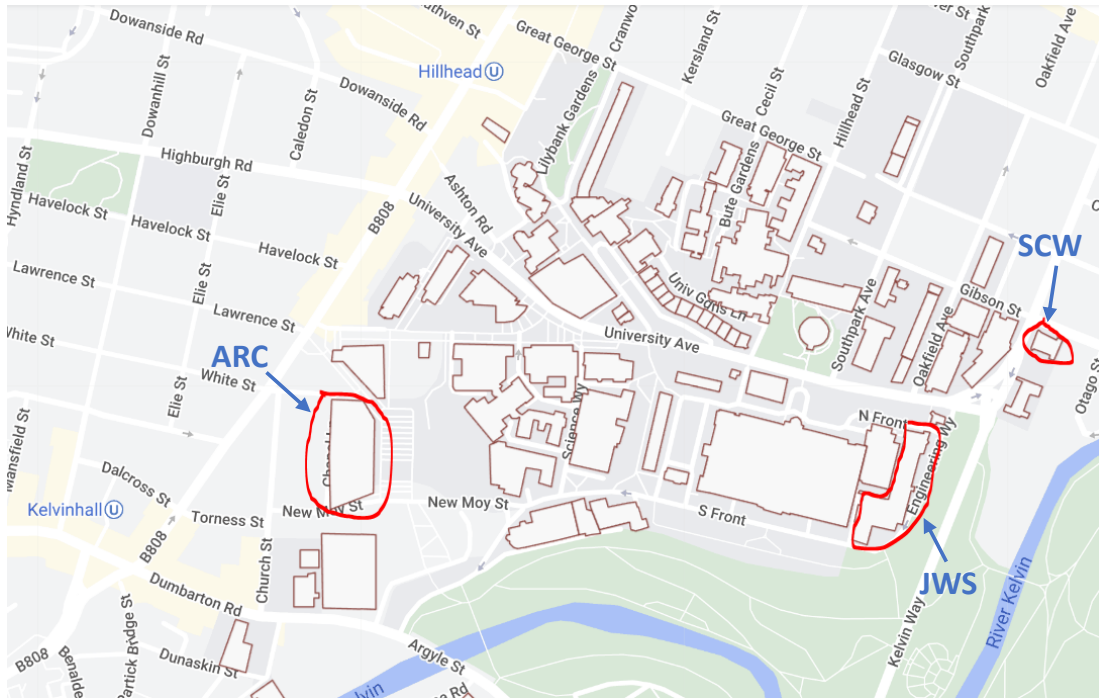
*Manuela Canestrini, Ioanna Gogousou, Negar Alinaghi, Dimitrios Michail and Ioannis Giannopoulos*

Conceptualising a co-operative densification dashboard

*Bénédicte Bucher, Mouhamadou Ndim, Ana-Maria Olteanu-Raimond, Juste Raimbault, Julien Perret, Sebastian Dembski and Mathias Jehling*

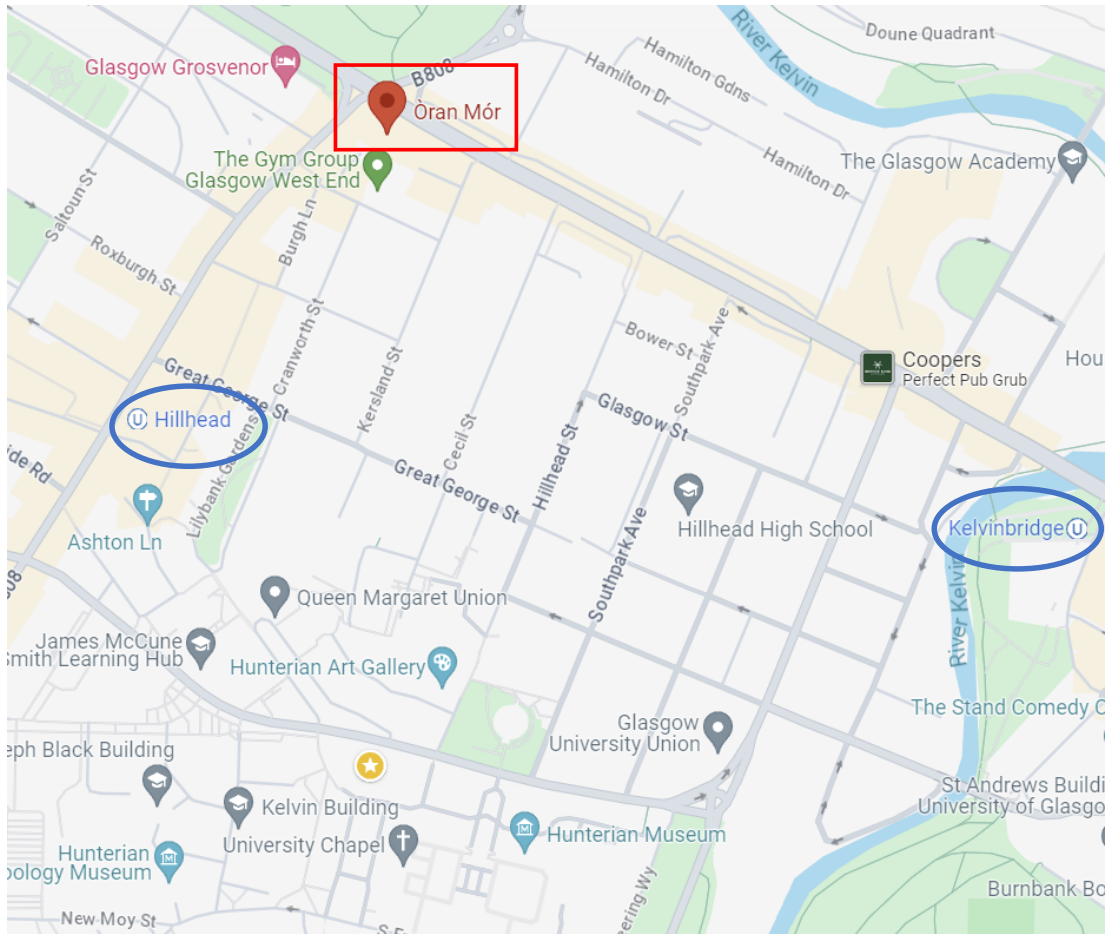
## Conference Venue

The conference will be held at three buildings at the University of Glasgow, Gilmorehill campus (Gibson St, Glasgow G12 8NN): Advance Research Centre (ARC), the Sir Charles Wilson Building (SCW) and the James Watt South Building (JWS). Their locations are highlighted on the map below:



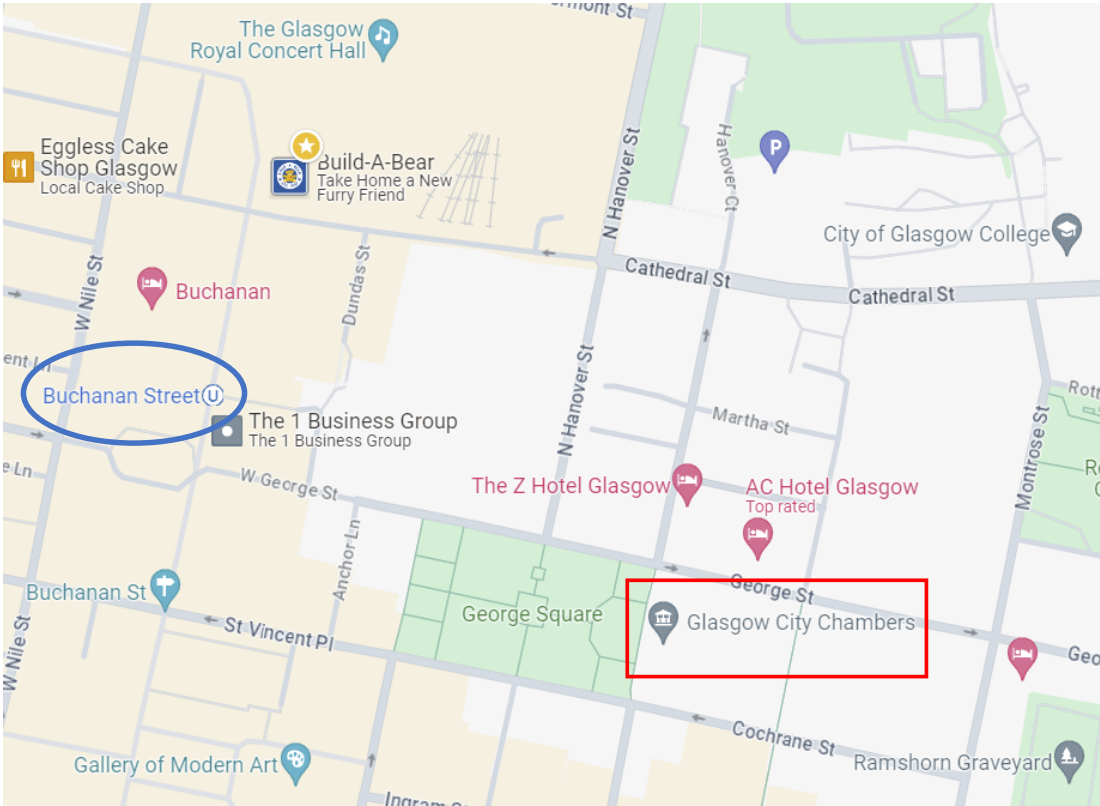
# Icebreaker Reception: Òran Mór (4 June 2024, sponsored by ESRI Global)

19:00-23:00, Top of Byres Road, Glasgow, G12 8QX



# Conference Dinner with Civic Reception: The City Chambers (6 June 2024)

19:00-22:00, 23 Montrose St, Glasgow G1 1RE.



## Whisky tasting (3 June 2024)

18:45-19:45, The Pot Still Pub, 154 Hope St (in Glasgow city centre close to Buchanan Street Subway Station).

