



## Workshop Proposal

We invite you to submit proposals for half-day or full-day workshops in any area related to the field of space syntax. We particularly encourage proposals for highly interactive and collaborative workshops to foster new ideas and learn new skills.

The workshops will take place on the 1<sup>st</sup> day of the conference.

Workshop proposals should be submitted via a specific template, available below.

Once the proposal is accepted, the text from the workshop proposal will be used to advertise the Workshop in the conference website.

The proposal must be submitted by September 11<sup>th</sup>, 2023, on the conference submission page.

The name of the file should be the Workshop title (abbreviated if necessary).

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| <b>Proposers' Name</b>                                | Flavia Lopes, Jorge Gil and Ioanna Stavroulaki   |
| <b>Proposers' Institution (if any)</b>                | Chalmers University of Technology – Department of Architecture and Civil Engineering.  |
| <b>Proposers' Email</b>                               | <a href="mailto:flavia.lopes@chalmers.se">flavia.lopes@chalmers.se</a><br><a href="mailto:jorge.gil@chalmers.se">jorge.gil@chalmers.se</a><br><a href="mailto:gianna.stavroulaki@chalmers.se">gianna.stavroulaki@chalmers.se</a>   |
| <b>Proposers' Short Bio</b><br>(text up to 200 words) | <p><b>Flavia Lopes:</b><br/>Flavia is currently a Postdoc Researcher at the Chalmers University of Technology. She has a bachelor's in Architecture and Urbanism, a Master, and a Ph.D. in the same area with an emphasis on Design, Morphology, and Technology of Built Environment. Her work focuses on urban and regional planning, urban mobility, urban morphology, urban informality and socio-spatial segregation.</p> <p><b>Jorge Gil:</b><br/>Jorge is Associate Professor in Urban Analytics and Informatics. His primary research focus is on the conceptualisation and development of integrated urban models applied to digital urban planning research and practice, in the context of Smart Cities, City Information Modelling (CIM) and Urban Digital Twins.</p> <p><b>Ioanna Stavroulaki:</b><br/>Ioanna is an Associate professor, member of the Spatial Morphology Group (SMoG). Her work focuses on developing</p> |

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|   | descriptive analytical methods and digital tools for spatial analysis (e.g., Place Syntax Tool) and for modelling the relation of spatial form to human behavior and social activity with an emphasis on movement and sustainable mobility.  |
| <b>Workshop Title</b>   | Towards a Consolidated Approach for Multimodal Urban Network Modeling in Space Syntax  |
| <b>Aim and Objectives</b><br>(describe the aims and objectives of the Workshop, indicating the scope of the workshop as well as why you think that this is a good topic for the 14 <sup>th</sup> SSS) | <p>The aim of this workshop is to progress towards a consolidated multimodal urban network modelling approach in space syntax.</p> <p>One of the key challenges in advancing the integration of spatial planning and mobility planning on all phases of urban planning is the development of robust multimodal urban network models that combine the street network, public transport network, and land-use system to provide a comprehensive representation of reality. In this context, space syntax models and tools can assume a pivotal role, filling the gap regarding multimodal urban network models designed to support strategic planning.</p> <p>Despite significant efforts in the field of space syntax dedicated to the development of multimodal urban network models (Law et al., 2012; Gil, 2016; Lerman &amp; Lebendiger 2019; Curtis &amp; Scheurer, 2019; Chen &amp; Karimi, 2022) these have not resulted in a consolidated approach in modelling and in tools. This hinders planners from effectively using space syntax for decision-making.</p> <p>The objectives of the workshop are to review past achievements and present current endeavors from a methodological and technical perspective and discuss the development of models and tools and its challenges. In particular, looking at developing data driven approaches that are easily replicable in different contexts.</p> <p>Chen, P.N., &amp; Karimi, K. (2022). <i>Analysis and modelling of the multilevel transport network: The metro and railway system in Greater London</i>. University of Strathclyde Publishing.</p> <p>Curtis, C., &amp; Scheurer, J. (2019). <i>The SNAMUTS Accessibility Tool in Action: Case Study Adelaide, Australia</i>. In <i>Designing Accessibility Instruments</i>. Routledge.</p> <p>Gil, J. (2016). <i>Urban Modality: Modelling and Evaluating the Sustainable Mobility of Urban Areas in the City-Region</i> (Ph.D. thesis). TU Delft.</p> <p>Law, S., Chiaradia, A., &amp; Schwander, C. (2012). <i>Towards A Multi-modal Space Syntax Analysis: A Case Study of the London Street and Underground Network</i>. In <i>Proceedings of the 8th International Space Syntax Symposium</i>. Santiago, Chile.</p> <p>Lerman, Y., &amp; Lebendiger, Y. (2017). <i>Visualizing Space Syntax Analyses for Decision Makers: Lessons from Israel</i>. In <i>Proceedings of the 11th Space Syntax Symposium</i>. Lisbon, Portugal.</p> |
| <b>Structure</b><br>(describe the format of the workshop, identifying any keynote speakers, technical information, and so on)   | <p>The workshop structure encompasses:</p> <ol style="list-style-type: none"> <li>1. An introductory session led by the workshop organizers, providing an overview of developments in multimodal urban network modeling.</li> </ol>  |

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|  | <ol style="list-style-type: none"> <li>2. Presentations by various researchers showcasing ongoing and past efforts and achievements. Our intention is to issue an open call for abstracts and invite established researchers to present the methodological and technical aspects of their work during this session.</li> <li>3. 3. A collaborative discussion dedicated to sharing ideas and sketching a strategy towards the development of a unified multimodal urban network approach and tools.</li> </ol>  |
| <p><b>Duration</b><br/>(specify the duration of the workshop- whether it is half or full day)</p>  | <p>Full-day workshop</p>  |
| <p><b>Specific Requirements</b><br/>(provide any specific requirements you may request from the organising committee for the implementation of the workshop)</p> | <p>All SSS participants interested in the topic are welcome to participate in the workshop.</p> <p>Participants who also wish to present and discuss their relevant work related to the development of methods, models, and tools for multimodal urban networks at the second part of the workshop are kindly invited to submit an abstract of up to 150 words to Flavia Lopes at <a href="mailto:flavia.lopes@chalmers.se">flavia.lopes@chalmers.se</a> until 7<sup>th</sup> of June. The title of the presentation and a short bio of the presenters should be included. As the conference, the workshop will be hybrid, so those who are abroad and interested in participating are welcome.</p> <p>In order to host a successful hybrid workshop, it's important that we have the appropriate equipment in place.</p> |