

	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Parallel 5 - online
08:30-09:30	<b>Registration</b> <i>Entrance Hall, K1 Building</i>				
09:30-12:15	<b>Workshop: Place Syntax Tool</b> <i>ROOM M207, K2 Building</i>  [287] Place Syntax Tool (PST) workshop Meta Berghäuser Pont, Ioanna Stavroulaki, Ann Legeby, Daniel Koch	<b>Workshop: Isovist_App</b> <i>ROOM M208, K2 Building</i>  [3] Isovist_App Workshop Sam McElhinney	<b>Workshop: Architectural Scenario Game</b> <i>ROOM M308 K2 Building</i>  [259] Workshop on Architectural Scenario Game in Comparison to Design PROCESS Nilüfer Kozikoğlu, Oğulcan Üneşi, Ömer Bilge Ersoy, Ceylin Öz, Pelin Dursun Çebi, Tuğrul Yazar, Melike Sena Erden, Çağla Yılmaz	<b>Workshop: sDNA: 3D pedestrian network mapping ONLINE -</b> <i>(ROOM M309, K2 Building available)</i>  [335] Workshop: sDNA: 3D pedestrian network mapping & accessibility and flow analyses Lingzhu Zhang, Alain Chiaradia	
12:15-13:00	<b>Lunch</b> <i>Sammen Cafeteria, K1 Building</i>				
13:00-15:45	<b>Workshop: Depthmap for newcomers</b> <i>ROOM M207, K2 Building</i>  [1] The traditional half day Depthmap Workshop Akkelies van Nes	<b>Workshop: Isovist_App</b> <i>ROOM M208, K2 Building</i>  [3] Isovist_App Workshop Sam McElhinney	<b>Workshop: SpaceChase for Grasshopper</b> <i>ROOM M308 K2 Building</i>  [236] SpaceChase for Grasshopper Tuğrul Yazar, Oğulcan Üneşi, Pelin Dursun Çebi, Nilufer Kozikoğlu, Melike Sena Erden		
15:45-17:00					
17:00-20:00	<b>Pre-conference reception Håkons Hall. Adress: Bergenhus 10, 5003 Bergen</b> <i>Håkonshallen in the City center</i>				

	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Parallel 5 - online
08:00-08:30	<b>Registration</b> <i>Entrance Hall, K1 Building</i>				
08:30-10:15	<b>Opening session: A tribute to Bill Hillier</b> <i>ROOM B131: 'Mimes Brønn'</i> Chair: Margarete Greene,  Presenters: Tao Yang, Vinicius Netto, Ruth Conroy Dalton, Sophia Psarra, Frederico de Hollanda.  This opening session marks the legacy of Bill Hillier at this, the 25th year anniversary of the first space syntax symposium. Given the immeasurable range of influences Bill's ideas have had on the space syntax community, this session has been designed around a small number of his past PhD students, each of whom will speak for up to 10 minutes on some aspect of their work with Bill, and how his ideas have guided them since then. The session will be chaired by Margarita Greene, with short talks from: Frederico de Holanda, Sophia Psarra, Ruth Conroy Dalton, Vinicius M. Netto, Tao Young. (The session is organized by Laura Vaughan, John Peponis, and Ruth Conroy Dalton).				
10:15-10:45	<b>Tea and coffee</b> <i>Floor 2, K2 Building</i>				
10:45-12:15	<b>Complex buildings</b> <i>ROOM M207, K2 Building</i> Buildings: Complex buildings Parallel sessions  <b>[426]</b> <b>Evacuation routes in a multi-story building. Using space syntax tools to improve users' safety</b> <u>Karina Dominguez</u> , Francisco Serdoura  <b>[430]</b> <b>Applying Flow simulation framework to model passenger behaviour in an airport terminal in North America</b> <u>Gözde Uyar</u> , Åsmund Izaki, Freyaan Anklesaria, Richard Spencer  <b>[456]</b> <b>Spatial configuration and passenger behavior at complex buildings: Istanbul Sabiha Gökçen Airport</b> <u>İrem Bayraktar</u> , Alper Ünlü  <b>[484]</b> <b>A comparative study of graph structures, traversability movement and exhibition strategy in museums during Covid-19</b> <u>Chenyang Li</u> , Sophia Psarra	<b>Economy &amp; Urban space</b> <i>ROOM M208, K2 Building</i> Economy & Urban space: Land use studies  <b>[463]</b> <b>Mapping active frontages: a method for linking street-level activities to their surrounding urban forms - A case study of the city of Weimar, Germany</b> <u>Abdulmalik Abdulmawla</u> , Martin Bielik, Sven Schneider, Reinhard Koenig  <b>[473]</b> <b>Main or supporting actor? The role of official urban planning in Brasília, Brazil</b> <u>Marecilda Rocha</u> , Valério Medeiros  <b>[474]</b> <b>Special Economic Zones vs. Sustainable Mobility: Measuring Movement in Special Economic Zones and Their Context</b> <u>Sofia Hoch Sanabria</u> , Ana Cristina Rodriguez Bautista, Natalia Bonilla Porras, Mariana Garcia Fajardo, Diego Alexander Baca Yarlque, Maria Gabriela Perez Gonzalez  <b>[500]</b> <b>The pursuit of urbanity in traditional town centres: The case of Fortaleza</b> <u>Camila Santana</u> , Edja Trigueiro	<b>History &amp; Urban Morphology</b> <i>ROOM M308 K2 Building</i> History & Urban Morphology: Historic centre and village conservations  <b>[353]</b> <b>THE BLUE VEINS OF TEHRAN: TOWARDS A SPATIO-SOCIAL CLASSIFICATION OF THE URBAN RIVERS</b> <u>Tina Samie</u>  <b>[357]</b> <b>Spanish Colonial Enclave Urbanism: Manila's Intramuros and how exclusion and waterway connectivity created the Binondo (Manila Chinatown) Trading District</b> <u>Leandro Nicholas Pocco</u>  <b>[361]</b> <b>Spatio-Historical Impact of Urban Canals on the Street Configuration of Cities: Diachronic Analysis of Amsterdam and London</b> <u>Merve Okkali Alsavada</u> , Laura Vaughan  <b>[362]</b> <b>Historical Spatio-Syntactical Analysis of the Phoenician-Punic settlements during the first millennium B.C : The Case of Kerkouane and Monte Sirai in the central sphere of the Mediterranean (comparative approach)</b> <u>Wided Arfaoui</u> , Said Mazouz, Mounir Dhouib	<b>Methodologies: Software development</b> <i>ROOM M309, K2 Building</i> Methodologies: Software development  <b>[408]</b> <b>Space Syntax with Prolog</b> <u>Pedro Afonso Fernandes</u>  <b>[415]</b> <b>What are you looking at? Technique for analysing visual connectivity between different spaces</b> <u>Ugo Santana</u>  <b>[461]</b> <b>Flow: Agent Simulation Framework with Spatial Choice for Multilevel Buildings</b> <u>Åsmund Izaki</u> , Gözde Uyar, Stephen Jones  <b>[514]</b> <b>Convexity and Imageability - Convex Maps and Urban (Space) Envelopes</b> <u>Stojanovski Todor</u> , Deborah Lefosse, Miguel Torres, Ivor Samuels, Hui Zhang, Sahba Zojaji, Christopher Peters	
12:15-13:00	<b>Lunch</b> <i>Sammen Cafeteria, K1 Building</i>				
13:00-14:30	<b>Buildings</b> <i>ROOM M207, K2 Building</i> Buildings: Cultural and educational buildings	<b>Economy &amp; urban space</b> <i>ROOM M208, K2 Building</i> Economy & Urban space: Land use studies	<b>History &amp; Urban Morphology</b> <i>ROOM M308 K2 Building</i>	<b>Spatial network analyses</b> <i>ROOM M309, K2 Building</i> Methodologies: Spatial Network analysis	

[421]  
**REDEFINING THE SPACE THROUGH PLAY: Interpreting Child's Experience in Primary Schools Through a Comparative Analysis of Interfacing Spaces**  
Büşra Atam, Mehmet Emin Şalgamcıoğlu

[467]  
**Spatial Preference In Relation To Curriculum**  
Umutcan Pektetik, Erincik Edgü

[471]  
**Adaptive Reuse of Historic Buildings; Use of Space Syntax for Evaluation of Sustainability**  
Nadide Ebru Yazar, Erincik Edgü

[347]  
**Design, Function, and Gender in a Place of Discovery: Qatar University Main Library**  
Mark David Major, Heba O. Tannous, Raghad Alatoom, Aljazi Al-Banai, Ghalya N. Al-Maadeed, Hanae A. Taha, Labeeb A. Ellath

[501]  
**A new centrality or a planned segregation? Investigating spatial traits of Reserva do Paiva enterprise**  
Amaro Mendonça, Cristiano Nascimento, Lucy Donegan

[512]  
**Analyses of Factors for Pedestrian Numbers in Downtown Nagoya Applying Space Configuration indicators**  
KANEDA TOSHIYUKI, OTA AKIRA, ZHANG YUFAN, KOBAYASHI JUNYA

[542]  
**Spatial reconfigurations within flood-prone areas:the case of Porto Alegre Metropolitan Region – Brazil**  
CLÁUDIO UGALDE, ANDREA BRAGA, DIEGO ALTAFINI

[376]  
**Yellowfield Redevelopment: Identifying latent centralities in Metro Manila's suburban gated residential fabric as opportunities for reconfiguration and suburban retrofitting.**  
Leandro Nicholas Poco

History & Urban Morphology: Historic centre and village conservations

[337]  
**Phenotypes and genotypes of traditional Norwegian wooden farms. Space Syntax analyses of Norway's smallest settlement units**  
Akkelies van Nes

[365]  
**Space, Time, and Natural Movement in Old Doha: The Morphological Case of Souq Waqif**  
Heba O. Tannous, Mark David Major, Farsana A. Abdulla, Haya Mohammed, Ghazal Shakerpoor, Labeeb A. Ellath

[397]  
**Of colonization ways: Finding order and structure in Latin American cities of Potosí (Bolivia) and Ouro Preto (Brazil)**  
Eudes Raony Silva, Lucy Donegan

[410]  
**Syntactic Analysis of Scenic Spaces: The case of Praça do Comércio in Lisbon**  
Pedro Afonso Fernandes, Mohammed Boubezari

[339]  
**Tuning in: Investigating OSMnx RCL model preparation methods for Angular Segment Analysis**  
Lucy Donegan, Felipe Tavares

[345]  
**Cross Inspection: Art Space vs. Spatial Syntax. From description method to design method.**  
Alexander Kolontay

[377]  
**Route Choice from Local Information: Comparing Theories of Movement and Intelligibility**  
Sean Hanna

[438]  
**Urban-regional dynamics of street network resilience: The spatial outcomes of Genoa's and Bologna's bridge crashes**  
Camilla Pezzica, Diego Altafini, Valerio Cutini

14:30-15:00

**Tea and coffee**  
*Floor 2, K2 Building*

15:00-16:30

**Architectural spatial theory**  
*ROOM M207, K2 Building*

[360]  
**Through the eyes of a machine: mapping and comparing building floor plans using unsupervised machine learning**  
Julie Maksimova

[381]  
**"Spatial DNA" of Traditional Houses as a Catalyst for Resilient and Sustainable Future: The Case of Oman**  
Chaham Alalouch, Hamida Al Azri, Buthaina Al Shabibi, Maria Al-busaidi

[401]  
**A Longitudinal Study on the Transformation of Farm Areas in Çukurova, Turkey**  
Fırat Ali Fırat, Alper Ünlü, Nevşet Gül Çanakçıoğlu

[535]  
**Morphological adjustments of domestic spaces: Spatial adaptations in the apartments of the lower-middle-income group in Dhaka.**  
Dilruba Yasmin, Farida Nilufar

**Data-informed design and planning**  
*ROOM M208, K2 Building*

[555]  
**DRAWSCAPES: Study of the effectiveness of online diagrammatic sketching in participatory design**  
Eduardo Rico Carranza, Karimi Kayvan

[536]  
**Exploring the levels of availability and access to open/green space and health outcomes: The case of Camden, London**  
Manasa Vinodkumar

[478]  
**Neighbourhood design and identification of objective built environment features supportive of children's mental wellbeing**  
Ayse Ozbil Torun, Yuçel Severcan, Margaret Anne Defeyter, Heval Bingol, Zelar Akin

[468]  
**Exploring the urban types of built density, network centrality, and functional mixture in the city of**

**Space & society**  
*ROOM M308 K2 Building*

[425]  
**HOMELESS SHELTER DESIGN: MODELS FOR WELL-BEING**  
Yelena McLane

[447]  
**Space Syntax and Disability: Can Space Syntax Predict Users with Disabilities' Movement? A case study from Algiers' historical city of Casbah**  
Chems Eddine Hacini, Bada Yassine

[466]  
**Equal living environments: Universal design and (un)equal access from a syntactic perspective, Uppsala, Sweden**  
Daniel Koch, Ann Legeby

[537]  
**Spatial Translation of Social Inequalities: Poverty and Inequality in a deeply-divided London Borough**  
Jiayi Jin

**ONLINE architectural spatial theory**  
*ROOM M309, K2 Building*

[358]  
**The true, the good and the beautiful**  
Frederico Holanda

[511]  
**Autism and domestic space: Location choices of autistic people when in different moods**  
Christakis Chatzichristou, Pelagia Kavvalou

[424]  
**TRANSFORMATION OF PUBLIC HOUSING BY RESIDENTS: An analysis of spatial patterns and morphological genotypes in Kaduna, Northwest Nigeria**  
Joy Maina, Asiya Aliyu

[359]  
**The Spatial Signature of the Enclosure Paradigm in Chinese Housing: Evidence from Twelve Housing Areas**  
Yufeng Yang, Laura Vaughan

[352]  
**Assessing school environments: A temporal, syntactical, socio-spatial**

**Athens. An open data approach**  
Yannis Paraskevopoulos,  
Efthimios Bakogiannis

approach to Basil  
Bernstein's framework of  
classification and framing  
Chrystala Psathiti, Nadia  
Charalambous

16:30-  
17:30

**The Pub session**  
*Global Lounge, K1 Building*

	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Parallel 5 - online
08:00-08:30	<b>Registration</b> <i>Entrance Hall, K1 Building</i>				
08:30-10:00	<b>Plenary session - Metropolitan scale</b> <u>ROOM B131: 'Mimes Brønn'</u> Michael Batty, CASA, UCL  Space Syntax and Spatial Interaction  In this talk I will attempt, somewhat optimistically perhaps, to compare space syntax with spatial interaction. At one level, these two approaches to urban spatial structure are non-comparable. Space syntax is largely a descriptive technique for visualising spatial relations at the level of connections between places while spatial interaction is a predictive model that forecasts how much travel there will be between places. The main output of space syntax is a connectivity matrix of step lengths between streets whereas in spatial interaction, such networks are predetermined, measurable in terms of Euclidean distance or generalised cost of travel, while the output is the volume of travel prior to this being assigned to the relevant modal network. However both approaches define accessibility, in space syntax in terms of streets while in spatial interaction in terms of places or zones. My analysis depends on thinking about the primal and duals of the street network. We assume the planar graph of the network is conceived of as a primal problem of spatial interaction while the dual graph linking streets in the planar graph is the graph which is used in space syntax. We exploit this duality and show how we can move easily between spatial interaction and space syntax from primal to dual and back again. We illustrate these measures on simple and easy to articulate graphs and then extend this to a synthetic network of nearest neighbour links in Greater London based on some 699 nodes and 1972 symmetric street or routes/links between zones. We conclude with some speculations about the fact that these approaches can be considered as being digital twins of one another, perhaps. CASA Working Paper 208 explains the logic of these comparisons, see <a href="https://www.ucl.ac.uk/bartlett/casa/publications/2017/feb/casa-working-paper-208">https://www.ucl.ac.uk/bartlett/casa/publications/2017/feb/casa-working-paper-208</a>  Claudia Yamu, Oslo Metropolitan University  Multiscale planning with a fractal concept  In this talk I will discuss the relationship between urban form and travel and how we can apply a fractal planning concept to manage urban sprawl. We need more nuanced thinking as to how urban patterns should be structured if we want to manage urban sprawl and congestion in high density areas from automobile use. Herein, we have to take into consideration fundamental human needs of accessibility to social, cultural, recreational or shopping amenities. Presented fractal planning concept is based on the idea of different sized urban centres connected to functions and green areas at different temporal scales. Applied logic is bringing to mind Hillier's discussion on pervasive centrality where a multi-scale centrality is introduced as a pervasive function in cities with clear spatial correlations. It is also reminiscent to Christaller's central place theory. Further, I will introduce the multiscale, (multi)fractal planning model 'Fractalopolis' and the model's latest developments as a GIS plugin. Finally, I will make a link to digital twins. My approach is perhaps somewhat optimistic. Nevertheless, we need to apply, test and verify existing ideas and develop new ideas in order to tackle climate change and to ensure future cities.				
10:00-10:30	<b>Tea and coffee</b> <i>Floor 2, K2 Building</i>				
10:30-12:00	<b>Architectural spatial theory and complex buildings</b> <u>ROOM M207, K2 Building</u>  [405] Views of Domesticity from Fascism to Democracy: The shifting architectural paradigms of Portuguese public housing, 1969-1982 <u>Catarina Ruivo</u> , Tasos Varoudis  [465] Architecture and Language: Morphosyntactic-Morphosemantic Relations and (Con)figuration <u>Sophia Psarra</u>  [504] Patient control mechanisms in the 19th century asylums of England: A comparative space syntax analysis of asylums based on patient holding capacity. <u>Intisar Ameen Tyne</u> , Mahbub Rashid  [482] The Evolution of Chinese Shopping Mall: An exploration on socio-spatial	<b>Data-informed design and planning</b> <u>ROOM M208, K2 Building</u>  [556] Sketch-a-park: Study of the usability of diagrams for participatory sketching in a configurational approach to the city <u>Eduardo Rico Carranza</u> , Kayvan Karimi  [348] Decision Tree-Based Prediction Model of Sitting Behavior on Public Spaces - An explorative study on three Public Parks in Berlin, Germany Mohammad Bodrudl Amin, <u>Martin Bielik</u> , Sven Schneider  [355] Outcome-focussed urban planning and design, Nur-Sultan 20230 Masterplan <u>Ed Parham</u> , José Luís Krug, Oscar McDonald, Sandra Wilmot  [557] Sketching maps: Comparison between digital diagrammatic sketches of	<b>History and urban morphology</b> <u>ROOM M308 K2 Building</u>  [363] Interiorised Enclosure and Long-Range Connectivity: Understanding Metro Manila's patchwork of privatised Central Business Districts <u>Leandro Nicholas Poco</u>  [403] River corridors. A study of spatial configuration along two small rivers in London <u>Cristina Vanegas</u> , Kayvan Karimi  [460] Brazilian medium-sized cities: richness and poverty paradox <u>Gláucia Bogniotti</u> , Frederico de Holanda, Valério Medeiros  [477] The common axis: configuration and social patterns in Brazilian cities <u>Valério Medeiros</u> , Vânia Loureiro	<b>Space syntax in teaching</b> <u>ROOM M309, K2 Building</u>  [393] Syntax as an Iterative Architectural Design Tool: A teaching experiment using spatial syntactic and isovist analysis <u>Freyaan Anklesaria</u> , Sam McElhinney  [533] The challenges of teaching space syntax in urban design studio <u>Beatrix Emo</u> , Urs Primas  [483] Going Back to Basics: The challenges and limitations of teaching Space Syntax through short course programs within mainland China <u>Tim Mason</u> , Chenyang Li, Sheng Song, Ying Yang  [490] Revealing the spatial capital of everyday life of rehoused people: The case of Minha Casa Minha Vida housing programme in Natal, Brazil.	<b>ONLINE - Design &amp; planning, and safety –</b> <u>ROOM M408, K2 Building available</u>  [444] Women, Perceived Safety and Spatial Configuration of Urban Streets Nurul Shakila Khalid, Sharifah. S. S. Mahdzar, Amir Al-Hamdi Hamdi Redzuan, Yusfida Ayu Abdullah  [485] Urban Grid and Accessibility of Proposed Metro Stations in an Organic City: Using Space Syntax as an Analytical Tool <u>Md Tariquzzaman</u> , Farida Nilufar  [546] The Difference in Cultivating Vitality between Heritage and New Urban Areas: the case study assisted by the multi-sourced data and machine learning <u>YUN HAN</u>  [515] Multilevel Multimodal Network Modelling: The

<p>changes in Chinese shopping malls over 20 years <a href="#">Chenyang Li</a>, Tim Mason, Lu Gan</p>	<p>urban connectivity and actual maps of landscape fabric <a href="#">Eduardo Rico Carranza</a>, Kayvan Karimi</p>		<p><a href="#">Flávia Lopes</a>, Lucas Figueiredo, Jorge Gil, Edja Trigueiro</p>	<p>Spatial Impacts of The Public Transport on Urban Systems <a href="#">PO NIEN CHEN</a>, Kayvan Karimi</p> <p>[340] The Impact of Street Network Structure on Carbon Emissions from Commuting: Evidence from Three Chinese Cities <a href="#">Jiayue Zhang</a>, Yufeng Yang, Xin Li</p>
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12:00-13:00

**Lunch**  
*[Sammen Cafeteria, K1 Building](#)*

13:00-14:30

<p><b>Space syntax and architectural design -</b> <i><a href="#">ROOM M207, K2 Building</a></i></p> <p>[341] Exploring the social logic of preschool environments structured with Waldorf, Montessori, and Reggio Emilia <a href="#">Nevset Gul Canakcioglu</a></p> <p>[367] Investigation of spatial characteristics and refugee children's physical activity in micro-environments: three refugee accommodations examples in Berlin <a href="#">Siqi Chen</a>, Martin Knöll</p> <p>[378] Ideal apartment layouts for mass production based on expected resident satisfaction <a href="#">Réka Mándoki</a>, John Orr</p> <p>[387] Domestic decryption: A longitudinal configurational analysis of social hierarchy in semi-detached houses <a href="#">Ethan Burley</a>, Fani Kostourou</p>	<p><b>Data-informed design and planning</b> <i><a href="#">ROOM M208, K2 Building</a></i></p> <p>[371] Between Space Syntax and Transportation Planning - Understanding the trade-offs between accuracy and complexity of Space Syntax and Transportation planning approaches to explain movement. <a href="#">Martin Bielik</a>, Julius Uhlmann, Sven Schneider, Uwe Plank-Wiedenbeck</p> <p>[389] What makes a route safer for cyclists? A study on cycling collisions in Lancaster, UK <a href="#">Demet Yesiltepe</a>, Ruth Conroy Dalton</p> <p>[446] An investigation into the factors that affect eating and walking behaviour in new public spaces: New Cairo as a case study <a href="#">Nabil Mohareb</a></p> <p>[518] Basic and Specialised Urban Fabric in Post-Industrial Reconversion: A Space Syntax Approach to the Pulp and Paper Mills and Towns in Quebec <a href="#">Maxime Nadon-Roger</a>, François Dufaux</p>	<p><b>Spatial cognition</b> <i><a href="#">ROOM M308 K2 Building</a></i></p> <p>[364] Measuring the Cognitive Dimension of Space: Integrating the user's perception in the syntactic analysis of a house <a href="#">Kyung Wook Seo</a>, Tsuyoshi Kigawa</p> <p>[343] A study on the use of urban spaces in historical environments through behaviour mapping and space syntax: The case of Mudanya <a href="#">Aylin Erol</a>, Nevset Gul Canakcioglu</p> <p>[351] Urban spatial contexts of growing up: Delineating the spatial configurations of developmental ecologies with Space Syntax <a href="#">Jamie O'Brien</a></p> <p>[391] Confinement and house use. Analysing the relation between space properties and space use during pandemic isolation <a href="#">Ana Moreira</a>, Francisco Serdoura</p>	<p><b>Space &amp; crime, and the historic city</b> <i><a href="#">ROOM M309, K2 Building</a></i></p> <p>[443] Spatial Segregation and Insecurity in Mexico City, <i>Santo Domingo</i> and its western border with <i>Ciudad Universitaria</i> <a href="#">Mariana García Fajardo</a></p> <p>[519] Urban Design, Space Syntax and Crime: an evidence-based approach to evaluate urban crime geographical displacement and surveillance efficiency. <a href="#">Federico Mara</a>, Diego Altafini, Valerio Cutini</p> <p>[507] Establishing the complexity of the historical city centre transformation with a special reference to Yaowarat <a href="#">Apiradee Kasemsook</a>, Bhumi Srisalaay, Wisarn Chupradit, Methi Laithaviwat, Thisnatcha Trivatevorakul, Rujirak Tanphalang</p> <p>[539] PAUSANIAS' TEXTUAL, SPATIAL AND TEMPORAL SCHEMATA IN ELIS DESCRIPTION <a href="#">ANTONIS TOULOUMIS</a>, KATERINA MICHALOPOULOU</p>	<p><b>ONLINE - the exciting space syntax mixed session</b> <i><a href="#">ROOM M408, K2 Building available</a></i></p> <p>[427] The Future of Innovative Workplaces: A socio-spatial investigation of interaction patterns in accelerator and incubator workplaces <a href="#">Hoda Hajo</a></p> <p>[349] Bringing an understanding of spatial configuration to the concept of agglomeration economies: the case of Greater Manchester <a href="#">Francesca Froy</a></p> <p>[406] Estimating house price with spatial and land use accessibility components using a data science approach at the national scale <a href="#">stephen law</a>, Po Nien Chen, Yao Shen, Kayvan Karimi, Alan Penn</p> <p>[407] Local Modularity, a measure that characterises street neighbourhood connectivity <a href="#">stephen law</a>, yao shen, Tao Yang, Kayvan Karimi, Alan Penn</p> <p>[429] The procedural turn: artificial morphogenesis in urban design <a href="#">Zoltán Bereczki</a></p>
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14:30-15:00

**Tea and coffee**  
*[Floor 2, K2 Building](#)*

15:00-17:30

**Poster Session & nutty nerdy corner**  
*[Floor 2, K2 Building](#)*



	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Parallel 5 - online
08:00-08:30	<b>Registration</b> <i>Entrance Hall, K1 Building</i>				
08:30-10:00	<b>Plenary - The local and the building scale</b> <u><i>ROOM B131: 'Mimes Brønn'</i></u> Anne Minton  Secured by Design: the impact of security on cohesion  Police in the UK recently caused an outcry when they removed park benches and shrubs from a park and insisted on 3 metre high fences for a school. This was the result of a policy called Secured by Design, a private public partnership between the police and the security industry, which has its origins in Oscar Newman's writing on Defensible Space, which found expression in CPTED – Crime Prevention through Environmental Design, which is the US policy upon which Secured by Design is based. The keynote will unpack the origins of this approach, track its journey across the Atlantic and investigate its impact on public space and the built environment and the consequences on fear and trust.  Julie Zook  The Social Logic of Health  Recent research on space syntax and hospitals demonstrates that latent dimensions of space as experienced have surprisingly strong links to measurable outcomes in hospitals. That said, while research on hospital design and function has been powerfully aided by space syntax theories and methods, the exigencies of hospital spaces demand more from space syntax: more sophisticated and information-rich statistical models, more attention to the particularities of user types and intentions, and more targeted forms of visibility analysis. This talk describes this research and outlines the general challenges it lays out for certain strands of space syntax scholarship.				
10:00-10:30	<b>Tea and coffee</b> <i>Floor 2, K2 Building</i>				
10:30-12:00	<b>Architectural spatial theory</b> <u><i>ROOM M207, K2 Building</i></u>  [392] <b>A combination of 3D model and panoramic photography for a 3D isovist tool</b> <u><i>Cristina Cándito, Ilenio Celoria, Alessandro Meloni</i></u>  [554] <b>Spatial characteristics of mixed-use typologies in a tropical metropolis: Understanding how retail podia relate with the urban realm</b> <u><i>Panagiotis Mavros, Yuqin Zhong, Christoph Hölscher</i></u>  [480] <b>Deciphering Urban Breccia: A Research on Hidden and Visible Layers of Mecidiyeköy Liquor Factory- Psychoanalysis of Urban Space</b> <u><i>Elif Ozturk Aksoy, Pelin Dursun Cebi</i></u>  [498] <b>Bill Hillier, Christopher Alexander and the representation of urban complexity: their concepts of 'pervasive centrality' and 'field of centres' brought into dialogue</b> <u><i>Howard Davis, Sam Griffiths</i></u>	<b>Data-informed design and planning</b> <u><i>ROOM M208, K2 Building</i></u>  [509] <b>Opportunities and Challenges in Applying Lightweight National-scale Spatial Network Models</b> <u><i>Oscar McDonald, Sandra Wilmot, Ella McCoshan, José Luís Krug, Kayvan Karimi</i></u>  [420] <b>A Classification of Streets in the Greater Cairo Region: A quantitative approach to classification and urban intervention</b> <u><i>Eman Zied Abozied, Alice Vialard</i></u>  [417] <b>Urban fabric and social participation in community-based elderly care facilities</b> <u><i>Xiaoming Li, Kerstin Sailer</i></u>  [398] <b>Study on Distribution Characteristics and Spatial Planning of Urban Medical Resources in the Context of Pandemic Prevention and Control—Taking Changchun City as An Example</b> <u><i>Yuyan Luo, Bingxin Li</i></u>	<b>History and urban morphology</b> <u><i>ROOM M308 K2 Building</i></u>  [385] <b>Tracing high street centralities through spatial-morphological continuities from the past: The case of Islington, London</b> <u><i>Laura Vaughan, Sam Griffiths, Falli Palaiologou</i></u>  [428] <b>Historic festival cities and the logic of their social spaces. <i>The role of spatial networks and urban fabric on users' experiences during events – the case of Historic Cairo, Egypt.</i></b> <u><i>Mariam Amer</i></u>  [434] <b>The Interrelation Between Humans and Their Built Environment in The Early Bronze Age of Bademağacı Höyük, Turkey</b> <u><i>A. Iraz Alpaly</i></u>  [469] <b>The transportation infrastructure and the evolution of street network in Glasgow City Centre</b> <u><i>Fatma Pelin Ekdi, Ilgi Toprak</i></u>	<b>Smart cities and virtual reality</b> <u><i>ROOM M309, K2 Building</i></u>  [479] <b>Deep Learning Video Analytics to Assess VGA Measures and in Public Spaces - The case of a pedestrian public place: Piazza Duomo, Milan, Italy</b> <u><i>Federico Messa, Giulia Ceccarelli, Andrea Gorrini, Dante Presicce, Rawad Choubassi</i></u>  [524] <b>CONSTRUCTING SOCIOSPATIAL MAPS FROM INSTAGRAM IMAGES in three urban spaces in London</b> <u><i>Gustavo Maldonado-Gil, Sophia Psarra</i></u>  [445] <b>A Study on the Space Usage Pattern in Metaverse - Targeting ZEPETO on the Metaverse Platform-</b> <u><i>Sang Hoon Kim, Young Ook Kim</i></u>  [457] <b>User-Centred Performances in Train Station Design: An IVE-based User Study of Four Design Options</b> <u><i>Grayson Bailey, Olaf Kammler, Sven Schneider, Rene Weiser, Ekaterina Fuchkina</i></u>	
12:00-13:00	<b>Lunch</b> <u><i>Sammen Cafeteria, K1 Building</i></u>				

13:00-14:30

**Space syntax and architectural design**

ROOM M207, K2 Building

[342] Spatial Culture of Traditional Syrian Courtyard Houses in Old Damascus  
Mark David Major, Andra-Theodora Radu, Heba O. Tannous

[379] Quilombo Mesquita: space of freedom  
Franciney França, Octávio Sousa

[386] A Study of Co-Presence in a University Architectural Studio using Bluetooth Contact Tracing Technology  
Emad Alyedreessy, Ruth Conroy Dalton, Leonidas Bourikas

[413] Power and Visual Integration: A Comparative Study On The Relationship Between The Emergence of Political Power and The Spatial Configurations of Party Headquarters'  
Mina Hazal Taşcı, Mehmet Emin Şalgamcıoğlu

**Urban strategic planning**

ROOM M208, K2 Building

[489] Using space syntax to assess accessibility of multimodal urban hubs and seamless mobility within the hubs  
Case study Delft-Campus train station  
Fatemeh Torabi, Safoora Mokhtarzadeh, Akkelies van Nes, Niels van Oort, Serge Hoogendoorn

[492] Spatial Configuration and Allocation of Cycling Infrastructure: The Case of Natal and Campina Grande, Brazil  
Alexandre Castro, Agatha Figueira, Edja Trigueiro, Mauro Barros Filho

[494] Combining centrality and mobility towards human-oriented cities: Development of an integrated methodology for analysis, evaluation, and planning  
Yannis Paraskevopoulos, Stefanos Tsigdinos, Efthymia Kourmpa, Efthimios Bakogiannis

[528] Investigating what connectivity means to different social groups in a fast-growing city - The case of Abu Dhabi  
Sepehr Zhand, Dr. Alexandra Gomes, Dr. Apostolos Kyriazis

**Spatial cognition and wayfinding**

ROOM M308 K2 Building

[459] Unravelling the Progressive Gallery Paradox: Behaviour analysis in an art gallery typology through neuroscience and morphology  
Ana Rolim, Luiz Amorim

[475] MULTI-SLICE VISIBILITY GRAPH ANALYSIS: THE CASE OF THE BODOCONGÓ DAM IN CAMPINA GRANDE, BRAZIL  
Mauro Barros Filho, Alexandre Castro, Lucas Jales

[487] Named streets and the cognition of path units  
Urs Primas, Beatrix Emo

[493] Intelligibility, cognitive mechanisms and visualisation of public space in map navigation  
Alice Vialard

**Spatial network analysis**

ROOM M309, K2 Building

[505] The architectural topographic grain of contingent events: an exploratory 'toponemic' analysis of an interactive narrative  
Sam Griffiths

[522] Markov-Chain based centralities and Space Syntax' Angular Analysis:an initial overview and application.  
Diego Altafini, Federico Poloni, Beatrice Meini, Dario Bini, Valerio Cutini

[553] Upper bound projection and restricted random isovists: a solution to the comparison of different environments analysed with visibility graphs  
Nick S. Dalton, Ruth Dalton, Sam McElhinney, Panagiotis Mavros

[534] Accessibility patterns based on steps, direction changes, and angular deviation: Are they consistent?  
Chen Feng, Daniel Koch, Ann Legeby

14:30-15:00

**Tea and coffee**

Floor 2, K2 Building

15:00-16:30

**Space syntax and architectural design**

ROOM M207, K2 Building

[414] Cultural impacts on traditional Chinese garden design: A configurational comparison between traditional Chinese imperial and private gardens using space syntax  
Sijie Yang, Yufeng Yang

[436] The Effects of Spatial Connectivity on Pedestrian Movement and Space Usage in Waterfront Areas  
Zeynep Ceren Durgut, Dilek Yıldız Özkan

[488] Brazilian contemporary kitchens: core or backstage?

**Space & society**

ROOM M208, K2 Building

[458] Towards Just Cities:An architectural approach to mapping unequal living conditions  
Ann Legeby, Chen Feng

[476] Social and spatial characteristics of systemic inequality in three US cities: Washington DC, Baltimore and Philadelphia  
Ilgı Toprak, Fatma Pelin Ekdi

[499] Exploring the spatial structure of dense housing estates in a highly unequal metropolis  
Margarita Greene, Cristhian Figueroa, Emilio Berríos, Rodrigo Mora

**Spatial cognition and wayfinding**

ROOM M308 K2 Building

[369] EXOSOMATIC ROUTE CHOICE IN NAVIGATION: Evidence from video game player data  
Sam McElhinney, Fiona Zisch, Michael Hornberger, Antoine Coutrot, Hugo Spiers, Sean Hanna

[370] First-Person Viewpoint Type Spatial Analysis Method Based on Deep Learning Integrating Texture, Semantic, and Geometric Spatial Features  
Hina Kinugawa, Atsushi Takizawa

[383] THE EFFECT OF USING TECHNOLOGICAL TOOLS ON

**Spatial network analysis**

ROOM M309, K2 Building

[552] DETECTION OF INTELLIGIBILITY LEAPS USING ISOVIST-WAVES: joining the dots to map potential 'aha moment' locations  
Sam McElhinney, Ruth Dalton, Nick S Dalton, Panagiotis Mavros

[527] Using space syntax method to train a model for unsupervised detection of socio-economic conditions - the case of metropolitan area of Tehran  
Sepehr Zhand, Dr. Kayvan Karimi

[525]



[Edja Trigueiro](#), [Andreia Umbelino](#), [Fernando Morais](#), [Silvio Filgueira](#)

[502]  
**The kind building**  
[Gabriela Tenorio](#)

[513]  
**Spatial characteristics and configuration of schoolyards – where do interaction occur? An exploration study of public schoolyards in Stockholm.**  
[Matilde Kautsky](#)

**URBAN NAVIGATION: A mixed-methods study on wayfinding behaviour in Newcastle Upon Tyne, UK**  
[Michael Wilkinson](#), [Ayse Ozbil Torun](#)

[395]  
**Interpretations on Movement and Affordances in the Built Environment**  
[Alper Ünlü](#), [Erincik Edgü](#), [Mehmet Ermin Şalgamcıoğlu](#), [Nevşet Gül Çanakçıoğlu](#)

**Blocked All-Pairs Shortest Paths Dijkstra for Accelerating Grid-based Spatial Analysis: Using database-driven search of precomputed grid cell blocks**  
[Ekaterina Fuchkina](#), [Sven Schneider](#), [Martin Bielik](#)

[503]  
**Relationship Between Block Shape and Street Network Integration**  
[Ermal Shpuza](#)

16:30-  
18:00

**The Pub session: Space syntax quiz**  
[Global Lounge, K1 Building](#)

18:00-  
23:50

**Midnight summer party and dinner**  
[Sammen Cafeteria, K1 Building](#)

	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Parallel 5 - online
08:00-08:30	<b>Registration</b> <i>Entrance Hall, K1 Building</i>				
08:30-10:00	<b>Cultural and educational buildings</b> <i>ROOM M207, K2 Building</i>  [354] Design-use nexus of primary schoolyards in Riyadh: A socio-spatial analysis <a href="#">Qusai Anteeq</a>  [375] Interrogating space in archaeological site museums <a href="#">Kali Tzortzi</a> , Eleni Bakola  [486] Examining the Occluded Space in Museum Gallery through User's Cognition and Space Morphology <a href="#">Çiğdem Bayram</a> , <a href="#">Mehmet Emin Şalgamcıoğlu</a>  [508] Affordances of the Spatial Design of School Buildings for Student Interactions and Student Self-Directed Learning Activities <a href="#">Ahmed Tarek Zaky Fouad</a> , Kerstin Sailer	<b>Space &amp; society</b> <i>ROOM M208, K2 Building</i>  [356] Assessment of the user-led spatial configuration in the transitional shelters in Bantayan Island, Philippines <a href="#">Robert Malayao</a> , Helene Teufl, Ardeshir Mahdavi  [368] The association between street layout (connectivity and integration) and social interaction in older Japanese adults: A Japan Gerontological Evaluation Study (JAGES) three-year longitudinal study <a href="#">Yu-Ru Chen</a> , Masamichi Hanazato, Chie Koga, Hiroaki Yoshida, Katsunori Kondo  [409] Social inclusion through the urban lens: a comparative analysis of neighbourhoods of residential racial homogeneity and heterogeneity in Cape Town, South Africa. <a href="#">Ruth Nelson</a>  [423] A Study on Spatial Characteristics of Residential Location and Resident's Level of Helping Behavior <a href="#">Soo Hyun Park</a> , Young Ook Kim	<b>Spatial cognition</b> <i>ROOM M308 K2 Building</i>  [402] Comparative study of the correlation between the spatial configuration and its visual quality with the modalities of use. The case of social and collective housing districts. <a href="#">Taous MESSAOUDI</a> , Said MAZOUZ, Bernard FRITSCH  [516] Examining the Effects of Sequential Polyhedron Visibility on Wayfinding and Evacuation: An Online Experiment in Virtual Reality Environment <a href="#">Uzay TOPAL</a> , Alper ÜNLÜ  [548] The impact of spatial accessibility on mobility of wheelchair users at Kuala Lumpur, Malaysia <a href="#">SHARIFAH SALWA SYED MAHDZAR</a> , CHU YUN PHUA  [506] The effects of visual privacy on work-process interactions in open-plan offices <a href="#">Gizem Yenel Güler</a> , Halime Demirkan	<b>ONLINE Urban space and morphology</b> <i>ROOM M309, K2 Building</i>  [440] A comparative study of configuration and morphology of Chinatowns <a href="#">Ha Minh Hai Thai</a> , Quentin Stevens  [380] Assessment on the Collective Memory of Urban Heritage: Case of Hengshanfang in Shanghai <a href="#">Yueying Chen</a>  [416] Distribution Characteristics of Gaming Industry on the Macau Peninsula and Its Relation to Morphological Transformation <a href="#">Michelle Xiaohong Ling</a> , Siya Yang  [422] The Configurational Analysis of the Ultra-Modern Shopping Centre in the Urban Restructuring of the Mediatized Era: A Study of Ultra-Modern Centre Based on the Method of Space Syntax <a href="#">Yiwei Ou</a> , Manfredini Manfredo  [419] Resilience of virtual and real shops under the impact of Covid19 epidemic: an empirical study on the distribution of breakfast service in Beijing <a href="#">QIANG SHENG</a> , <a href="#">ZHIXUAN WANG</a> , <a href="#">YILONG RONG</a>	
10:00-10:30	<b>Tea and coffee</b> <i>Floor 2, K2 Building</i>				
10:30-12:00	<b>Space syntax and architectural design</b> <i>ROOM M207, K2 Building</i>  [547] DECODING THE DIFFERENCES IN SPATIAL TYPOLOGY OF THE OLD AND NEW LIBYAN MOSQUES DESIGN VIA SPACE SYNTAX VISIBILITY ANALYSIS <a href="#">Sharifah Salwa Syed Mahdzar</a> , Abdelbaaset M A El Teira  [544] SpaceChase: A Dynamic and Interactive Tool for Architectural Design Process	<b>Urban strategic planning</b> <i>ROOM M208, K2 Building</i>  [545] Evaluating the state of Transit-Oriented Development in Norway - The Node-Place-Design model and Form Syntax applied in the InterCity-Triangle in the Oslo Fjord region <a href="#">Sverre Myklebust</a> , Akkelies Van Nes, Wendy Tan  [558] Children's route choice behaviour: comparing the	<b>Sustainable cities - room</b> <i>ROOM M308 K2 Building</i>  [390] Creating and connecting new development areas: an emphasis on cyclists and pedestrians- An examination of Bailrigg Garden village <a href="#">Demet Yesiltepe</a> , Ruth Conroy Dalton  [412] Biodiversity potential in Brazilian medium-sized cities through human access to nature	<b>Spatial network analysis</b> <i>ROOM M309, K2 Building</i>  [551] Isovists in a Grid: Benefits and Limitations <a href="#">Ruth Conroy Dalton</a> , <a href="#">Nick S. Dalton</a> , Sam McElhinney, Panagiotis Mavros  [559] Forecasting district-wide pedestrian volumes in multi-level networks in high-density mixed-use areas <a href="#">Michael A.B. van Eggermond</a> , Panos Mavros, Alexander	

Tuğrul Yazar, Pelin Dursun Çebi, Nilufer Kozikoğlu, Oğulcan Üneşi, Melike Sena Erden

[543]  
**Designerly Way of Investigating Space Syntax Software**

Pelin Dursun Çebi, Nilüfer Kozikoğlu, Tuğrul Yazar, Melike Sena Erden

[540]  
**Housing segregation in Rio de Janeiro: a dead-end street? Analysing the impact of low-rise residential cul-de-sacs types on Rio de Janeiro's street network through Space Syntax**  
Valeria Ena

**actual and metrically shortest routes for active journeys to school.**

Nafsika Michail, Ayşe Ozbil, Rosie Parnell, Kyung Wook Seo

[418]  
**The role of synergy, intelligibility and permeability in structuring polycentric development in Doha**

Velina Mirincheva, Deepthi John, Mark David Major

[399]  
**Urban mobility planning and street classification: A space syntax application**  
Yoav Lerman, Yonatan Lebendiger

Gabriel Rego, Valério Medeiros

[491]  
**A City Is Born: An analytical investigation of Changsha's urban development in the recent 100 years**  
Chenyang Li

[550]  
**A place syntax approach to fifteen Minutes cities**  
Beniamino Murgante, Francesco Scorza, Giovanni Fortunato, Priscilla Dastoli

Erath, Veera Helle, Pablo Acebillo, Shuchen Xu

[464]  
**Patterning Behavior to Exploit Space: Extending Morphological Theory Through Agent-Based Simulation of Learning and Selecting Behavior in Space**  
Yeinn Oh, Sonit Bafna, Ruth Kanfer

[523]  
**Configurational properties and the internal geography of local-regional urban spaces: findings of a multiscale-based analysis of the Tuscany's road-circulation networks.**  
Diego Altafini, Valerio Cutini

12:00-  
13:00

### Lunch

Sammen Cafeteria, K1 Building

13:00-  
14:30

### Plenary: Directions of space syntax, book presentations, closing address

ROOM B131: 'Mimes Brønn'

In this plenary session the future directions of space syntax is discussed. Speakers: Kimon Krenz and Ioanna Stavroulaki. At the end we have some book presentations and the announcement of the time and place of the next international space syntax symposium.

14:30-  
17:30

### Excursions - depending on the weather

a) City walk

b) Mount Ulriken up

c) Mount Fløyen up

d) Tour to the Stave church and Trollhaugen (Edvard Grieg's home)

e) The cluster farm Havråtunet