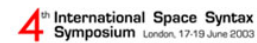


4th International Space Syntax Symposium



London, UK 2003

The Fourth International Space Syntax Symposium was held at University College London in 2003. The symposium proceedings are available below:

1. **The knowledge that shapes the city: the human city beneath the social city** [Paper Abstract](#) (Professor Bill Hillier – The Bartlett School of Graduate Studies, UCL, UK)
2. **On the formulation of spatial meaning in architectural design** [Paper Abstract](#) (Dr. John Peponis – Georgia Institute of Technology, USA; Chryssoula Karadima – National Technical University of Athens, Greece; Sonit Bafna – Georgia Institute of Technology, USA)
3. **The 21st Century model prison** [Paper](#) (Simon Henley – Architect, Buschow Henley, UK)
4. **Shifts in the conceptualisation of spatial relations in home-making practice: suggestions from recent cultural history** [Abstract](#) (Professor Tim Putnam – School of Art, Design and Media, University of Portsmouth, UK)
5. **How day-lighting constrains access** [Paper Abstract](#) (Professor Philip Steadman – The Bartlett School of Graduate Studies, UCL, UK)
6. **The architectures of seeing and going: are cities shaped by bodies or minds?** [Paper Abstract](#) (Professor Bill Hillier – The Bartlett School of Graduate Studies, UCL, UK)
7. **Embodied spatial cognition** [Abstract](#) (Professor Barbara Tversky – Department of Psychology, Stanford University, USA)
8. **Technological unconscious** [Abstract](#) (Professor Nigel Thrift – School of Geographical Sciences, University of Bristol, UK)
9. **Space layout affects search efficiency for agents with vision** [Paper Abstract](#) (Alan Penn and Alasdair Turner – The Bartlett School of Graduate Studies, UCL, UK)
10. **What makes big dumb bells a mega shopping mall?** [Paper Abstract](#) (Polly Fong – The Bartlett School of Graduate Studies, UCL, UK)
11. **Spatial and functional differentiation: a symbiotic and systematic relationship** [Paper Abstract](#) (Dr. Apiradee Kasemsook – The Bartlett School of Graduate Studies, UCL, UK)
12. **From compact colonial villages to sparse metropolis: investigating grid integration, compactness and form of the integration core in Brazilian cities** [Paper Abstract](#) (Valério Augusto Soares De Medeiros, Dr. Frederico Rosa Borges de Holanda – Universidade de Brasilia, Brazil; and Dr. Edja Bezerra Faria Trigueiro – Universidade Federal do Rio Grande do Norte, Brazil)
13. **Human scales: understanding places of centering and de-centering** [Paper Abstract](#) (Dr. Stephen Read and Luki Budiarto – Delft University of Technology, The Netherlands)
14. **The tale of two cities: the dynamics of the city Isfahan in the past and present** [Paper Abstract](#) (Dr. Kayvan Karimi – Space Syntax Limited, UK; and Nooshin Motamed – UK)
15. **Reversing the process of living: generating ecomorphic environments** [Paper Abstract](#) (Alasdair Turner – The Bartlett School of Graduate Studies, UCL, UK)
16. **Squatter settlements consolidation: spatial analysis in an agent-based environment** [Paper Abstract](#) (Dr. Fabiano Sobreira – Faculdade de Ciencias Humanas, ESUDA, Brazil)
17. **Building space and myth at the edge of empire: Space Syntax analysis of St. Petersburg, 1703-1913** [Paper Abstract](#) (Professor Kenneth Knoespel – Georgia Institute of Technology, USA)
18. **Building on geometries of intelligibility: Planning the Leiden region as a layered movement fabric** [Paper Abstract](#) (Camelia Kusumo and Dr. Stephen Read – Delft University of Technology, The Netherlands)
19. **Heraklion and Chania: a study of the evolution of their spatial and functional patterns** [Paper Abstract](#) (Irina Perdikogianni – The Bartlett School of Graduate Studies, UCL, UK)
20. **Marginal heritage: studying effects of change in spatial integration over land-use patterns and architectural conservation in the old town centre of Natal, Brazil** [Paper Abstract](#) (Dr. Edja Bezerra Faria Trigueiro – Universidade Federal do Rio Grande do Norte, Brazil; and Valério Augusto Soares de Medeiros – Universidade de Brasília, Brazil)

21. **Examining the impact of Euro-Canadian Architecture on Inuit families living in Arctic Canada** [Paper Abstract](#) (Dr. Peter C. Dawson – University of Calgary, Canada)
22. **Alice's mirror: marketing strategies and the creation of the ideal home** [Paper Abstract](#) (Dr. Luiz Amorim and Dr. Claudia Loureiro – Universidade Federal de Pernambuco, Brazil)
23. **The Would, the Could, the Should and the Is: the role of the architect and client in the production of the spatial characteristics of the contemporary Greek-Cypriot house** [Paper Abstract](#) (Dr. Christos Hadjichristos – Architect, Cyprus)
24. **My bedroom, my world: domestic space between modernity and tradition** [Paper Abstract](#) (Franciney Carreiro de França and Dr. Frederico Rosa Borges de Holanda – Universidade de Brasília, Brazil)
25. **Designing games: structure, playability and intelligibility** [Paper Abstract](#) (Dr. Aarati Kanekar – University of Cincinnati, USA)
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27. **Configurations of experience** [Paper Abstract](#) (Thomas Dine – Architect, UK)
28. **Combining grammars and Space Syntax: formulating, evaluating, and generating designs** [Paper Abstract](#) (Professor Teresa Heitor, Assistant Professor Dr. José Pinto Duarte and Rafaela Marques Pinto – Instituto Superior Técnico, Portugal)
29. **Path, theme and narrative in open plan exhibition settings** [Paper Abstract](#) (Dr. John Peponis, Dr. Ruth Conroy Dalton – Georgia Institute of Technology, USA; Professor Jean Wineman – University of Michigan, USA; and Nick Sheep Dalton – Georgia Regional Transportation Authority, USA)
30. **Modalities of Poetic Syntax in the work of Hejduk** [Paper Abstract](#) (Weiling He and Dr. John Peponis – Georgia Institute of Technology, USA)
31. **Top-down and bottom-up characterisations of shape and space** [Paper Abstract](#) (Dr. Sophia Psarra – Welsh School of Architecture, UK)
32. **Inscribing structures of dance into architecture** [Paper Abstract](#) (Evelyn Gavrilou – National Technical University of Athens, Greece)
33. **The city as object of human agency** [Paper Abstract](#) (Professor Romulo Krafta, Denise de Oliveira and Rafael Bordini – Universidade Federal do Rio Grande do Sul, Brazil)
34. **Scaling and universality in the micro-structure of urban space** [Paper Abstract](#) (Dr. Rui Carvalho, Alan Penn and Shinichi Iida – The Bartlett School of Graduate Studies, UCL, UK)
35. **A proposed methodology to normalise total depth values when applying the visibility graph analysis** [Paper Abstract](#) (Dr. Maria Beatriz de Arruda Campos – Space Syntax Limited, UK; and Polly S.P. Fong – The Bartlett School of Graduate Studies, UCL, UK)
36. **A measure of universal distance using Space Syntax analysis** [Paper Abstract](#) (Dr. Mohamed A. Salheen – Ain-Shams University, Egypt)
37. **Analyzing the effects of spatial configuration on human movement and social interaction in Canadian Arctic communities** [Paper Abstract](#) (Dr. Peter C. Dawson – University of Calgary, Canada)
38. **Housing and community consolidation in informal settlements: a case of movement economy** [Paper Abstract](#) (Dr. Margarita Greene – Catholic University of Chile, Chile)
39. **From vernacular to collage city** [Paper Abstract](#) (Andrea Moura and Dr. Frederico Rosa Borges de Holanda – Universidade de Brasília, Brazil)
40. **Original and converted social housing: spatial configurations and residents' attitudes** [Paper Abstract](#) (Dr. Antônio Tarcisio da Luz Reis – Universidade Federal do Rio Grande do Sul, Brazil (Post-Doctoral Fellow, University of Sydney, Australia)
41. **Light, views and money: average perimeter distance and its relation to floor plate geometry** [Paper Abstract](#) (Ermal Shpuza – Georgia Institute of Technology, USA)
42. **Hybrid infrastructures for knowledge work** [Paper Abstract](#) (John W. Bakke and Birgitte Yttri – Telenor Research and Development, Norway)
43. **Organizational constructs and the structure of space: a comparative study of office layouts** [Paper Abstract](#) (Dr. Mahbub Rashid and Professor Craig Zimring – Georgia Institute of Technology, USA)
44. **Accessibility and security: syntactic and perceptual analysis in two low-income housing estates** [Paper Abstract](#) (Dr. Antônio Tarcisio da Luz Reis – Universidade Federal do Rio Grande do Sul, Brazil (Post-Doctoral Fellow, University of Sydney, Australia); Adriana Araujo Portella, Janise Gaddo Bennett – Universidade Federal do Rio Grande do Sul, Brazil; and Dr. Maria Cristina Lay – Universidade Federal do Rio Grande do Sul, Brazil (Post-Doctoral Fellow, University of Sydney, Australia))

45. **Methods and principles of police deployment within “chaotic” urban structure** [Paper Abstract](#) (Dr. Elena Rodina – President of the Urban Chaos Research Group, USA; Professor Vladimir Rodin – Voronezh State University, Russia; and Dr. Vladislav Dumachev – Voronezh Institute of Police, Russia)
46. **Spatial configuration and vulnerability of residential burglary: a case study of a city in Taiwan** [Paper Abstract](#) (Dr. Simon C. F. Shu – Feng Chia University, Taiwan; and Jason N. H. Huang – Changhua County Government, Taiwan)
47. **Application of geotechnology to urban configuration** [Paper Abstract](#) (Rômulo José da Costa Ribeiro and Dr. Frederico Rosa Borges de Holanda – Universidade de Brasilia, Brazil)
48. **Introducing the third dimension on space syntax: application on the historical Istanbul** [Paper Abstract](#) (Professor Yasushi Asami – University of Tokyo, Japan; Professor Ayse Sema Kubat – Istanbul Technical University, Turkey; Kensuke Kitagawa – University of Tokyo, Japan; and Shinichi Iida – The Bartlett School of Graduate Studies, UCL, UK)
49. **Lines and squares: Towards a configurational approach to the morphology of open spaces** [Paper Abstract](#) (Dr. Valerio Cutini – Università di Pisa, Italy)
50. **Bending the axial line: smoothly continuous road centre-line segments as a basis for road network analysis** [Paper Abstract](#) (Dr. Robert C. Thomson – the Robert Gordon University, UK)
51. **Looking both ways: Space Syntax for pedestrian exposure forecasting and collision risk analysis** [Paper Abstract](#) (Noah Raford – University of California, Berkeley, Traffic Safety Center, USA)
52. **Urban safety in residential areas** [Paper Abstract](#) (Dr. Margarita Greene and Ricardo Greene – Catholic University of Chile, Chile)
53. **Representing urban cognitive structure as a spatial differentiation measure** [Paper Abstract](#) (Ana Paula Neto de Faria and Professor Romulo Krafta – Universidade Federal do Rio Grande do Sul, Brazil)
54. **Spatial analysis of different home environments in the city of Trabzon, Turkey** [Paper Abstract](#) (Dr. Pelin Dursun and Professor Gulsun Saglam – Istanbul Technical University, Turkey)
55. **Family structure and spatial configuration in Turkish house form in Anatolia from the early 19th century to the late 20th century** [Paper Abstract](#) (Umut Toker and Zeynep Toker – North Carolina State University, USA)
56. **The visibility graph: an approach to the analysis of domestic M'zabite traditional spaces** [Paper Abstract](#) (Bellal Tahar – University of Sétif, Algeria; and Dr. Frank Brown – Manchester University, UK)
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59. **The syntactical image of the city: a reciprocal definition of spatial elements and spatial syntaxes** [Paper Abstract](#) (Dr. Ruth Conroy Dalton and Dr. Sonit Bafna – Georgia Institute of Technology, USA)
60. **Architectural atmosphere and the spatially situated body** [Paper Abstract](#) (Ioanna Spanou – National University of Athens, Greece; and Dr. John Peponis – Georgia Institute of Technology, USA)
61. **‘The book and the labyrinth were one and the same’: narrative and architecture in Borges’ fictions** [Paper Abstract](#) (Dr. Sophia Psarra – Welsh School of Architecture, UK)
62. **The shape of habitable space** [Paper Abstract](#) (Alan Penn – The Bartlett School of Graduate Studies, UCL, UK)
63. **Storing directionality in axial lines using complex node depths** [Paper Abstract](#) (Nick Sheep Dalton – Georgia Regional Transportation Authority, USA)
64. **Addressing normalisation in the pursuit of comparable integration** [Paper Abstract](#) (Gillian E. Livesey and Dr. Anthony Donegan – University of Ulster, UK)
65. **To tame a TIGER one has to know its nature: extending weighted angular integration analysis to the description of GIS road-centerline data for large scale urban analysis** [Paper Abstract](#) (Nick Sheep Dalton – Georgia Regional Transportation Authority, USA; Dr. John Peponis and Dr. Ruth Conroy Dalton – Georgia Institute of Technology, USA)
66. **The spatial construction of seeing at Castelvecchio** [Paper Abstract](#) (Gianna Stavroulaki – National Technical University of Athens, Greece; and Dr. John Peponis – Georgia Institute of Technology, USA)
67. **An approach to the microstructure of the gallery space: the case of the Sainsbury Wing** [Paper Abstract](#) (Kali Tzortzi – The Bartlett School of Graduate Studies, UCL, UK)
68. **Ability and intelligibility: wayfinding and environmental cognition in the designed environment** [Paper Abstract](#) (Assistant Professor Saif Haq and Sara Giroto – Texas Tech University, USA)

69. **The question of social potential in space use** [Paper Abstract](#) (Dr. Zoe Georgiadou – Technological Educational Institution, Greece)
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71. **Legible cities: the role of visual clues and pathway configuration in legibility of cities** [Paper Abstract](#) (Mahshid Shokouhi – Associate Professor, University of Art, Iran)
72. **A model of hierarchical cognitive map and human memory designed for reactive and planned navigation** [Paper Abstract](#) (Romain Thomas and Dr. Stephane Donikian – IRISA/CNRS, France)
73. **Using Space Syntax to understand multi-layer high density urban environments** [Paper Abstract](#) (Ra'anan Gabay – Israel Institute of Technology & Bezalel Academy of Art and Design, Israel; and Dr. Iris Aravot – Israel Institute of Technology, Israel)
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75. **Informal economy and spatial configuration in Quilicura, Santiago** [Paper Abstract](#) (Rodrigo Mora – Universidad Tecnica Federico Santa Maria, Chile)
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77. **Survival of bazaars: global spatial impact and local self-organizing processes** [Paper Abstract](#) (Mir Azimzadeh – Chalmers Institute of Technology, Sweden)
78. **A configurative approach to understand pedestrian-based and car-based shopping centres: configurative studies on Oslo and Eindhoven** [Paper Abstract](#) (Dr. Akkelies Van Nes – Delft University of Technology, The Netherlands)
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81. **The multiplicity of built form manifestations: situating the domestic form within interwoven syntactic and semiotic domains** [Paper Abstract](#) (Dr. Shatha Malhis – University of Petra, Jordan)
82. **Relation of domestic space preferences with Space Syntax parameters** [Paper Abstract](#) (Dr. Erincik Edgu – Yeditepe University, Turkey; and Professor Alper Unlu – Istanbul Technical University, Turkey)

Response Paper – Plenary Session: Precepts, structures and notations [Paper](#)

(Dr. Sonit Bafna – Georgia Institute of Technology, USA)

Response Paper – Plenary Session: Syntax and urban cognition [Paper](#)

(Dr. Sophia Psarra – Welsh School of Architecture, UK)

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83. **Past and present spatiality of Manama and Muharraq historical centres in Bahrain Kingdom** [Abstract](#) (Wafa Al-Ghatam – The Bartlett School of Graduate Studies, UCL, UK)
84. **Domestic space cultures in the Arab world** [Abstract](#) (Waleed Al-Sayyed – The Bartlett School of Graduate Studies, UCL, UK)
85. **The spatial dimension of shopping behaviour in the inner shopping area of the city of Jeddah, Saudi Arabia** [Abstract](#) (Dr. Abdulgader O. Amir – King Fahd University of Petroleum & Minerals, Saudi Arabia)
86. **Interdisciplinary analysis of sign systems and guidance systems in hospitals** [Paper Abstract](#) (Sónia R. André, Dr. Eduardo Côrte-Real, Catarina Lisboa, André S. Ribeiro, Carlos Rosa, Vítor Simoes – UNIDCOM/IADE, IADE, Portugal)
87. **Home, what is it for?: a syntactic analysis of the configuration of middle class apartments currently available on the property market in Recife, Brazil** [Paper Abstract](#) (Fabiana Moreira Pedrosa Pereira de Carvalho – Faculdade de Ciências Humanas – ESUDA, Brazil)
88. **A putative church at Aqaba: a Space Syntax analysis** [Abstract](#) (Dr. David L. Chatford Clark – University of Surrey Roehampton, UK)

89. **The morphology of Manaus downtown** [Paper Abstract](#) (Graciete Guerra da Costa – Universidade de Brasilia – Brazil)
90. **Space as a stage set in the negotiation of truth: the urban models of residential space in Greece in the 1950s and 1960s as projected by the Greek cinema** [Paper Abstract](#) (Dr. Constantine G. Deliyiannidis – Architect, Greece)
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93. **Fatimid Cairo: the transformation of an urban logic** [Poster Abstract](#) (Galal Hassan Galal-Edeen – London Metropolitan University, UK)
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100. **The Japanese partiality towards boundaries** [Paper Abstract](#) (Tsuyoshi Kigawa – Kyoto Institute of Technology, Japan)
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104. **New routes: re-structuring the street grid of Cidade Satélite estate in Natal, Brazil, to account for users requirements imprinted by means of informal interventions** [Abstract](#) (Gisele Pereira Guedes de Moura and Dr. Edja Bezerra Faria Trigueiro – Universidade Federal do Rio Grande do Norte, Brazil; and Valério Augusto Soares de Medeiros – Universidade de Brasilia, Brazil)
105. **The spatial morphology of a fragmented city: the urban growth of Aracaju, Brazil** [Abstract](#) (Adriana Nogueira – The Bartlett School of Graduate Studies, UCL, UK/Universidade Federal da Bahia – Faculdade de Arquitetura e Urbanismo, Brazil)
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107. **Introducing a quantitative method for visual analysis of urban coastal environments with feedback based on the space syntax method** [Abstract](#) (Dalit Shach-Pinsly (Architect), Dr. Dafna Fisher-Gewirtzman, and Professor Michael Burt – Technion-Israel Institute of Technology, Israel)
108. **A spatio-temporal interpretation of domesticity – formal specifications for TIMESPACE software** [Abstract](#) (Dr. Philippos Pouyioutas and Nadia Charalambous – Intercollege, Cyprus)
109. **Spatial forms of ancient Cypriot society – 3D animated multimedia application for identifying new historical information** [Abstract](#) (Dr. Philippos Pouyioutas and Nadia Charalambous – Intercollege, Cyprus)
110. **Erotic commerce downtown** [Abstract](#) (Mirko Salfate and Dr. Margarita Greene – Pontificia Universidad Católica de Chile, Chile)
111. **Looking at patterns: an architecture firm examines circulation and interaction in their recent laboratory building designs** [Poster Abstract](#) (Dr. Margaret Gilchrist Serrato – Lord, Aeck & Sargent, Architects, USA)

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114. **Effects of housing morphology on user satisfaction** [Paper Abstract](#) (Assistant Professor C. Asli Sungur - Yıldız Technical University, Turkey; and Professor Dr. Gülen Çağdas – Istanbul Technical University, Turkey)
115. **Syntax of world heritage cities: is it a coincidence?** [Abstract](#) (Dr. Aysegül Tokol – Bilkent University, Turkey)
116. **Land subdivision in Brazilian metropolitan context: the case of the greater Porto Alegre** [Paper Abstract](#) (Cláudio Mainieri de Ugalde – Architect, Fundacao Estadual de Planejamento Metropolitano e Regional – METROPLAN, Brazil)
117. **The information contents of the syntactic models** [Poster Paper Abstract](#) (Dr. Severino Escolano Utrilla – Universidad de Zaragoza, Spain)
118. **Comparing the effects of socio-economic and spatial factors on crime patterns at the macro level of a London borough** [Poster Abstract](#) (Sania Zaki – The Bartlett School of Graduate Studies, UCL, UK)

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