

## OPENING ADDRESS

Ayşe Sema Kubat

## INVITED PAPERS

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David Seamon

Daniel Montello  
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Richard Milton, Duncan Smith, Philip Steadman

## LONG PAPERS

Bill Hillier, Alasdair Turner,  
Tao Yang, Hoon-Tae Park,  
John Peponis, Douglas Allen,  
Dawn Haynie, Martin Scoppa,  
Zongyu Zhang  
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Scoppa, Jason Brown

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Lucas Figueiredo, Luiz Amorim

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Roy Wagner

Ermal Shpuza

Stephen Read, Gerhard Bruyns  
Andrew Crompton, Frank Brown

Mir Azimzadeh, Hans Bjur

Jingwen WANG, Qizhi Mao, Anrong DANG

Stephen Read, Gerhard Bruyns, Eefje van den  
Hoogen, Myrna Plomp

Akkelies van Nes

Claudia Ortiz-Chao, Bill Hillier

Özlem Özer, Ayşe Sema Kubat

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Julienne Hanson, Reem Zako

Özlem Sahbaz, Bill Hillier

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Ameen Farooq

Antônio Tarcísio Reis, Luiza Vedana, Celina  
Dittmar

Manuel J.J. López, Akkelies van Nes  
Alexander Stähle

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Rosa Borges de Holanda  
Valério Augusto Soares de Medeiros, Frederico  
Rosa Borges de Holanda

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Margarita Greene, Rodrigo Mora  
Kayvan Karimi, Abdulgader Amir, Kaveh Shafiei,  
Noah Rafor, Esenghiul Abdul, Ji Zhang, Magda  
Mavridou  
Christine Kohlert  
Edja Bezerra Faria Trigueiro, Valério Augusto Soares  
de Medeiros

Alasdair Turner  
Yasemin Ince Güney  
Vaso Trova  
Afroza Parvin, Arlen Min Ye, Beisi Jia

Jaepil Choi, Minseok Kim, Hyunchul Choi  
Maria Beatriz de Arruda Campos, Maia Lemlij, Sarah  
Manning

Christoph Hölscher, Martin Brösamle  
Martin Brösamle, Christoph Hölscher, Georg  
Vrachliotis

Eirini Rafailaki  
Christian Beros-Contreras  
Margarita Greene, Rodrigo Mora, Hernán Kirsten,  
Daniel Wurman  
Jingwen Wang, Qing Zhu, Qizhi Mao  
Yong Woo Yun, Young Ook Kim

# WELCOME TO THE SIXTH INTERNATIONAL SPACE SYNTAX SYMPOSIUM - ISTANBUL

CONZENIAN URBAN MORPHOLOGY AND URBAN LANDSCAPES  
A LIVED HERMETIC OF PEOPLE AND PLACE: phenomenology and space syntax  
THE CONTRIBUTION OF SPACE SYNTAX TO A COMPREHENSIVE THEORY OF  
ENVIRONMENTAL PSYCHOLOGY

GEOMETRIC SCALING AND ALLOMETRY IN LARGE CITIES

## URBAN MORPHOLOGY

METRIC AND TOPO-GEOMETRIC PROPERTIES OF URBAN STREET  
NETWORKS: some convergences, divergences and new results

MEASURING THE CONFIGURATION OF STREET NETWORKS: the Spatial profiles  
of 118 urban areas in the 12 most populated metropolitan regions in the US  
THE EFFECTS OF PROPOSED BRIDGES ON URBAN MACROFORM OF  
ISTANBUL: a syntactic evaluation

STREET CONNECTIVITY AND URBAN DENSITY: spatial measures and their  
correlation

SPATIAL CAPITAL AND HOW TO MEASURE IT: an outline of an analytical theory of  
the social performativity of urban form  
DECODING THE URBAN GRID: or why cities are neither trees nor perfect grids  
PARTS AND WHOLE IN METROPOLITAN CONURBATION: the case of porto alegre  
metropolitan area - Brazil

ON THE METRIC, SYNTACTIC AND FUNCTIONAL STRUCTURE OF AXIAL MAPS  
URBAN SHAPES AND URBAN GRIDS: a comparative study of Adriatic and Ionian  
coastal cities

THE FORM OF A METROPOLITAN TERRITORY: the case of Amsterdam and its  
periphery

THE DOUBLE FRACTAL STRUCTURE OF VENICE

THE URBAN PALIMPSEST: the interplay between the historically generated layers in  
urban spatial system and urban life

AN EVOLVEMENT MODEL FOR A METROPOLIS: a case study on the evolution of  
spatial and functional patterns of Beijing city

## CENTRALITY

CONSTRUCTING METROPOLITAN LANDSCAPES OF ACTUALITY AND  
POTENTIALITY

CENTRALITY AND ECONOMIC DEVELOPMENT IN THE RIJNLAND REGION:  
social and spatial concepts of centrality  
IN SEARCH OF PATTERNS OF LAND-USE IN MEXICO CITY USING LOGISTIC  
REGRESSION AT THE PLOT LEVEL

## PEDESTRIAN MOVEMENT

WALKING INITIATIVES: a quantitative movement analysis

MODELING STREET CONNECTIVITY AND PEDESTRIAN MOVEMENT

ACCORDING TO STANDARD GIS STREET NETWORK REPRESENTATIONS THE  
STREETS OF INNOVATION: an exploratory analysis of knowledge transfer in the  
public realm

UNB AND ITS SOCIAL SPACE

## CRIME

COMMUNITIES OF CO-PRESENCE AND SURVEILLANCE: how public open space  
shapes awareness and behaviour in residential developments

THE STORY OF THE CRIME: functional, temporal and spatial tendencies in street  
robbery

MICRO SCALE SPATIAL RELATIONSHIPS IN URBAN STUDIES: the relationship  
between private and public space and its impact on street life

SOCIAL MALICE BY HOUSING TYPE

AN ANALYSIS OF STREET ROBBERY AND RESIDENTIAL BURGLARY THROUGH  
INTEGRATION OF AXIAL LINES, SEGMENTS CONNECTIVITY AND GIS

SPACE AND CRIME IN DUTCH BUILT ENVIRONMENTS: macro and micro scale  
spatial conditions for residential burglaries and thefts from cars

EXPLORING AMBITERRITORY: no-man's-land in post-war morphologies, confusing  
users and complicating maintenance

## COMPARATIVE URBAN ANALYSIS

MORPHOLOGICAL COMPARISON OF TWO HISTORICAL ANATOLIAN TOWNS

STRUCTURE AND SIZE: Brazilian cities in an urban configurational world scenario

A STEP FURTHER: segment analysis for comparative urban studies

THE SIGNIFICANCE OF MODERN JAPANESE CITY PLANNING: a morphological  
examination of the land readjustment projects in Korea, Taiwan and Japan

## PRESERVATION AND REHABILITATION

PRESERVING SPACE: towards a new architectural conservation agenda

REHABILITATION PROCESS IN CITY CENTRES: new residents in traditional areas

EVIDENCE-BASED SPATIAL INTERVENTION FOR REGENERATION OF

FORMAL SETTLEMENTS: the case of jeddah central unplanned areas

DAR ES SALAAM: restructuring of the harbor, dual planning method

THE BRIDGE, THE MARKET, A CENTRALITY FOREVER LOST AND SOME HOPE:  
studying alternatives for re-qualifying an old town centre

## VISIBILITY

TO MOVE THROUGH SPACE: lines of vision and movement

ANALYZING VISIBILITY STRUCTURES IN TURKISH DOMESTIC SPACES

DESIGNING FOR HUMAN ENCOUNTER: urban design and the politics of visibility

MULTILEVEL PEDESTRIAN MOVEMENT: does visibility make any difference?

EVACUATION EFFICIENCY EVALUATION MODEL BASED ON EUCLIDEAN

DISTANCE WITH VISUAL DEPTH

THE ROLE OF THE BUILDING LAYOUT IN THE DELIVERY OF SOCIAL WORK  
SERVICES

## SPATIAL COGNITION AND WAYFINDING

CAPTURING INDOOR WAYFINDING STRATEGIES AND DIFFERENCES IN  
SPATIAL KNOWLEDGE WITH SPACE SYNTAX

MULTI-LEVEL COMPLEXITY IN TERMS OF SPACE SYNTAX: a case study  
INFORMATIVE MONADS SHAPING COGNITIVE KNOWLEDGE: the "urban  
palimpsest" of Piraeus, Greece

DIS-ORIENTATION, SPATIAL ABILITIES PERFORMANCE IN CENTRAL  
LONDON

FINDING THE WAY BACK: spatial variables in asymmetric route choice

THE THREE-DIMENSIONAL EXTENSION OF SPACE SYNTAX

THE EFFECT OF DEPTH AND DISTANCE IN SPATIAL COGNITION

## PHENOMENOLOGY AND SPACE SYNTAX

Stephen Read  
Luki Budiarto

Irini Perdikogianni  
Hazem Ziada

Sonit Bafna, Sudha Shah  
Laura Vaughan, Julianne Hanson, Ruth Conroy Dalton  
Pelin Dursun

Theodora Antonakaki  
Ziad Aazam

Ziad Aazam

Ela Çil

Tahar Bellal  
Matthew H. Robb  
Suzan Sanli, Pelin Dursun, Gülsün Saglamer  
Jala Makhzoumi, Reem Zako  
Hedieh Wojgani, Julianne Hanson

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Sonit Bafna, Ranah Hamash  
Kerstin Sailer  
Henrik Markhede, Daniel Koch

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Kali Tzortzi

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Frederico Rosa Borges de Holanda

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Burçin Yazgi, Vedja Dökmeci

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Sean HANNA

Wen-Chihe (Jeffrey) Wang, Hsin-Ju Liao Shrikant B. Sharma

Henrik Markhede, Pablo Miranda Carranza Chiron Mottram, Alan Penn

In O Cho, Young Ook Kim

Magda Mavridou  
Holger Schnädelbach, Alan Penn, Phil Steadman

#### SHORT PAPERS

Heliana Carvalho, Edja Trigueiro  
Itzhak Omer, Ra'anan Gabay

Meltem Gündogdu, Hale Çiraci  
Meltem Gündogdu, Hale Çiraci

DEEP LANDSCAPES: constructing urban landscapes for inhabitation  
SENSES OF PLACE: understanding urban location as an organisation of places  
FROM SPACE TO "PLACE": the role of space and experience in the construction of "place"  
KINESTHETIC FOUNDATIONS OF SPATIAL CONCEPTS AND CONFIGURATIONS  
**ARCHITECTURAL THEORY**  
THE EVOLUTION OF ORTHOGONALITY IN BUILT SPACE: an argument from space syntax

TEACHING SPACE SYNTAX THROUGH REFLECTIVE PRACTICE  
SPACE SYNTAX IN ARCHITECTURAL DESIGN  
**RELIGIOUS ARCHITECTURE**  
LIGHTING AND SPATIAL STRUCTURE IN RELIGIOUS ARCHITECTURE: a comparative study of a Byzantine church and an early Ottoman mosque in the city of Thessaloniki  
THE SOCIAL LOGIC OF THE MOSQUE: a study in building typology  
THE SOCIAL LOGIC OF THE MOSQUE: a study in the relationships between building typology and urban morphology  
**DOMESTIC SPACE**  
SPACE, PRACTICE, MEMORY: the transformations of the houses in Kula, a town in Anatolia  
SPATIAL INTERFACE BETWEEN INHABITANTS AND VISITORS IN M'ZAB HOUSES  
THE SPATIAL LOGIC OF ZACUALA, TEOTIHUACAN  
DECODING HOUSES OF A TURKISH ARCHITECT: Yilmaz Sanli  
THE BEIRUT DOZEN: traditional domestic garden as spatial and cultural mediator  
EXTRA CARE HOUSING: a paradigm shift  
**WORKPLACE**  
ENHANCING WORKSPACE PERFORMANCE: predicting the influence of spatial and psychosocial factors on job satisfaction  
DESIGNING THE SPATIAL SYNTAX OF OFFICE LAYOUTS  
MOVEMENT IN WORKPLACE ENVIRONMENTS: configurational or programmed?  
POSITIONING ANALYSIS: social structures in configurative modelling  
**MUSEUMS**  
TRACING THE MODERN: space, narrative and exploration in the Museum of Modern Art, New York  
RADICAL DISCONTINUITY OR VARIATIONS ON A THEME?: the recent history of the High Museum of Art  
MUSEUM BUILDING DESIGN AND EXHIBITION LAYOUT: patterns of interaction  
STRUCTURE, AGENCY AND SPACE IN THE EMERGENCE OF ORGANISATIONAL CULTURE  
**SPACE SYNTAX AND TRANSPORTATION**  
COMPARATIVE SPACE SYNTAX ANALYSIS OF DESIGN STRATEGIES FOR ISTANBUL UNDERGROUND RAILWAY SYSTEM

OPTIMAL LOCATION OF ROUTE AND STOPS OF PUBLIC TRANSPORTATION NETWORK ANALYSIS APPLIED: the railway network in South East England  
RING ROADS IN GREATER PORTO ALEGRE: would it be an effective solution?  
EMERGENT ROUTE CHOICE BEHAVIOUR, MOTORWAY AND TRUNK ROAD NETWORK: the Nantes conurbation

EXPLORATORY STUDY OF SPACE SYNTAX AS A TRAFFIC ASSIGNMENT TOOL  
**LANDUSE LANDVALUE AND DEMOGRAPHICS**  
THE EFFECT OF SPATIAL CONFIGURATION ON LAND USE AND LAND VALUE IN SEOUL

WHAT INTEGRATION ADDS TO QUALITY OF LIFE  
BE AWARE OF LOCAL PROPERTIES  
THE SPATIAL AND NON-SPATIAL REQUISITES OF A NETWORKED PUBLIC DOMAIN  
ANALYSIS OF HOUSING PRICES IN THE METROPOLITAN AREA OF ISTANBUL  
AN ANALYSIS OF CONFIGURATION, LOCATION AND AVAILABILITY OF INCOME-GENERATING ACTIVITIES IN SOCIAL HOUSING  
THE SOCIAL LOGIC OF SHOPPING: case study New Delhi - a syntactic approach to the analysis of spatial and positional trends of community centre markets in New Delhi  
**NEIGHBORHOODS : LOCAL VS GLOBAL**  
INTERNAL COMMERCIAL STREETS AND THE CONSOLIDATION OF LARGE INFORMAL NEIGHBOURHOODS: the case of Zahedan, Iran  
IS NEIGHBOURHOOD MEASURABLE?  
APPLYING DEPTH DECAY FUNCTIONS TO SPACE SYNTAX NETWORK  
GRAPHS CALIBRATING AXIAL LINE MAPS  
THE FUZZY BOUNDARY: the spatial definition of urban areas  
TESTING THE STREET CONNECTIVITY OF NEW URBANISM PROJECTS AND THEIR SURROUNDINGS IN METRO ATLANTA REGION  
THE STRUCTURAL SIMILARITY OF NEIGHBOURHOODS IN URBAN STREET NETWORKS: a case of London  
**ENVIRONMENTAL ISSUES AND SPACE SYNTAX**  
AXIAL LINES AND CONTOUR LINES: climbing up the centre  
PERMEABILITY MAPS OF RESIDENTIAL SETTLEMENTS WITHIN THE COASTAL AREA OF SURABAYA, INDONESIA  
A STUDY OF VARIATIONS AMONG MIES'S COURTYARD HOUSES BY A COMBINED SET OF VISUAL AND ENVIRONMENTAL PROPERTIES  
**COMPUTER APPLICATION**  
QUANTIFYING THE EFFECTS OF SPACE ON ENCOUNTER  
SYNCHRONIZING SPATIAL INFORMATION IN COMPLEX ENVIRONMENTS: a crossover of space syntax and spatial information visualization REPRESENTATION AND GENERATION OF PLANS USING GRAPH SPECTRA IMPLEMENTING SPACE SYNTAX IN AN OPEN SOURCE GIS: GRASS GIS approach  
A STATIC-DYNAMIC NETWORK MODEL FOR CROWD FLOW SIMULATION  
SPATIAL POSITIONING TOOL: a prototype software and some background correlation data  
EVOLVING STREET PLANS, FROM SHOPS AND SHOPPERS  
**VIRTUAL AND MIXED REALITY**  
THE RELATIONSHIP BETWEEN SPATIAL CONFIGURATION AND SPATIAL BEHAVIOR IN ONLINE GAME SPACE  
COULD THE PERCEPTION OF INTELLIGIBILITY BE AFFECTED BY THE THIRD DIMENSION OF THE BUILT ENVIRONMENT?  
MIXED REALITY ARCHITECTURE: a dynamic architectural topology

**URBAN ANALYSIS**  
THE NEW "CIDADE NOVA": assessing effects of urban configuration and land use change in architectural transformation  
SOCIAL HOMOGENEITY AND SPACE SYNTAX OF TOWNS IN ISRAEL  
THE RELATION BETWEEN INTEGRATION VALUES AND LAND VALUES FROM SPATIAL CONFIGURATION CHARACTERISTICS: the Galata-Pera example  
THE DEVELOPMENT OF THE CENTRAL BUSINESS AREA - GALATA-PERA DISTRICT AND THE ANALYSIS OF INTEGRATION WITH CENTRAL BUSINESS

<p>Andrea da Costa Braga Bo Grönlund Christos Hadjichristos</p>	<p>AREA MORPHOLOGY, TRANSFORMATION AND CO-PRESENCE: unveiling four centuries of social tension in Rio de Janeiro's city centre – Brazil SOME NOTIONS ON URBANITY PROSTITUTION SPATIALISED: Cyprians then and now</p>
<p>Bahar Baser, Ayse Sema Kubat</p>	<p><b>PEDESTRIAN NETWORK</b> A NEW LANDSCAPE DESIGN STRATEGY FOR CREATING CONTINUOUS, PERCEPTIBLE AND PRODUCTIVE URBAN GREEN: a case study of Kadıköy - Istanbul ESTABLISHING A METHOD TO CONSTRUCT PEDESTRIAN NETWORK IN DOWNTOWN AREA</p>
<p>Young Ook Kim, Haeng Woo Shin, En Mi Kong</p>	<p>A STUDY ON THE CORRELATION BETWEEN PEDESTRIAN NETWORK AND PEDESTRIAN VOLUME ACCORDING TO LAND USE PATTERN</p>
<p>Haeng Woo Shin, Young Ook Kim, Ah Hyun Kim Mehmet Topçu, Kadriye Deniz Topçu, Ayse Sema Kubat</p>	<p>MOVEMENT ECONOMY DEPENDENT ON URBAN DESIGN SPACE AND FEAR OF CRIME RELATION IN URBAN GREEN AREAS CASE STUDY: Maçka Demokrasi Park THE SPACE SYNTAX AND CRIME: evidence from a suburban community</p>
<p>Burcu Kaya, Ayse Sema Kubat Perver K. Baran, William R. Smith, Umut Tokar</p>	<p><b>VISIBILITY</b> THE SEQUENTIAL DEVELOPMENT AND CONSEQUENT URBAN PATTERNS DISSECTING THE VISUAL VARIABLES OF SPATIAL CONFUSION A COMPARATIVE SPACE IDENTIFICATION ELEMENTS ANALYSIS METHOD FOR DISTRICTS: Maslak &amp; Levent, Istanbul</p>
<p>Esenghiul Abdul Gemil Rodrigo Mora</p>	<p><b>BUILDING MORPHOLOGY</b></p>
<p>Valério Augusto Soares de Medeiros, Fabiano José Arcadio Sobreira, Frederico Rosa Borges de Holanda Kerstin Sailer, Andrew Budgen, Nathan Lonsdale, Alasdair Turner, Alan Penn</p>	<p>THE NATIONAL CONGRESS PALACE: Niemeyer's masterpiece facing a functional conflict EFFECTIVE WORKPLACES: bridging the gap between architectural research and design practice</p>
<p>Haeng Woo Shin, Da Eun Kim, Young Ook Kim</p>	<p>A COMPARATIVE STUDY ON THE SPATIAL CONFIGURATION OF TRADITIONAL VILLAGES AND APARTMENT COMPLEXES IN KOREA COMPARISON OF MOVEMENT MODELS BETWEEN REAL AND VIRTUAL ENVIRONMENTS</p>
<p>Suzan Girginkaya, Gülen Çagdas</p>	<p><b>SPATIAL COGNITION</b> PERCEPTION AND INTELLIGIBILITY IN THE CONTEXT OF SPATIAL SYNTAX AND SPATIAL COGNITION: reading an unfamiliar place out of cognitive maps URBAN SECURITY AND SPATIAL BEHAVIOR: syntactic and perceptual analysis of the central area of Porto Alegre</p>
<p>Ezgi Tuncer Maria Cristina Dias Lay, Antônio Reis, Virginia Dreux, Débora Becker</p>	<p>THE ROLE OF SPACE SYNTAX IN SPATIAL COGNITION: evidence from urban China</p>
<p>Yixiang Long, Perver K. Baran, Robin Moore Martin Brösamle, Christoph Hölscher</p>	<p>HOW DO HUMANS INTERPRET CONFIGURATION? towards a spatial semantics MOVEMENT BEHAVIOUR, SOCIAL IMPLICATIONS AND SPATIAL COGNITION IN SPACES OF CONSUMPTION: the case of Camden Market</p>
<p>Eirini Rafailaki</p>	<p><b>EXPERIENTIAL DIMENSION</b> ACTOR/AUDIENCE INTERFACE IN THE CITY/STAGE SPACE A SENSE OF PLACE AND PERVASIVE COMPUTING WITHIN THE URBAN LANDSCAPE QUANTIFYING THE QUALITATIVE: an evaluation of urban ambience</p>
<p>Simone Shu-Yeng Chung Ava Fatah Schieck, Carolina Briones, Chiron Mottram Paul Osmond</p>	