



< Sejong University >

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THE SPACE SYNTAX FOR POSITIVE CON-
TAMINATION PROCESSES AND URBAN
REGENERATION
Andrea Gonçalves, Ana Torrê, Valério Medeiros

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AND POSITIVE TRANSFORMATION: Analyz-
ing the regenerative capacity of the morphol-
ogy of Holyoke
Ipek Kaynar Rohloff

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SPATIAL-SOCIO CLASSIFICATION OF
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NETHERLANDS STRATEGIES FOR NEIGH-
BOURHOOD REVITALISATION
Akkelies van Nes, Manuel López

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092
THE CHANGES OF RITUAL PRACTICE IN
THE POST-SOCIALIST CITY OF
DUNAÚJVÁROS
Christina Lenart

095
THE SOCIO-ECONOMIC IMPLICATIONS OF
THE SPATIAL CONFIGURATION IN GREATER
CAIRO METROPOLITAN AREA
*Abdelbaseer A. Mohamed, Akkelies van Nes,
Mohamed A. Salheen, Christine Kohlert, Christian
Schwander*

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INDIA: Understanding the influence of culture
on the spatial organisation of cities
Aabid Raheem

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009
SPACE AND PLANNED INFORMALITY:
strong and weak programme categorisation in
public learning environments
Cauê Capille, Sophia Psarra

010
UNDERSTANDING MUSEUM MAPS AS
DEVICES FOR EMBODYING DISCIPLINARY
KNOWLEDGE AND IMPACT ON VISITORS'
BEHAVIOURS
Jae Hong Lee, Alan Penn

024
SPACES FOR KNOWLEDGE: strategies in
academic library planning and design
Katherine Both, Teresa Heitor, Valério Medeiros

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BEYOND COMPACT CITY: Spatial configura-
tion model for carbon emission reduction
Hoon Tae Park, Min Ha Kim, Young Ook Kim

027
PATTERNS OF SUSTAINABLE MOBILITY
AND THE STRUCTURE OF MODALITY IN
THE RANDSTAD CITY-REGION
Jorge Gil, Stephen Read

030
THE WILLINGNESS TO PAY FOR URBAN
SUSTAINABILITY
Axel Heyman, Alexander Stahle

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045
NETWORK COMMUNITIES IN THE VISIBIL-
ITY GRAPH: A new method for the discretiza-
tion of space
Yongha Hwang

054
SYNTACTIC RESILIENCE
Daniel Koch, Pablo Miranda Carranza

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DIRECTED LINKOGRAPHY AND SYNTACTIC
ANALYSIS: Comparing Synchronous and Dia-
chronic Effects of Sudden Emergence of
Creative Insights on the Structure of the
Design Process
Tamer El-Khouly, Alan Penn

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THE CITY, WHEN IT TREMBLES. EARTH-
QUAKE DESTRUCTIONS, POST-EARTH-
QUAKE RECONSTRUCTIONS AND GRID
CONFIGURATION
Valerio Cutini

105
DISASTER RESILIENCE AND THE SOCIAL
FABRIC OF SPACE
Ann Carpenter

114
URBAN PATTERNS AND DISASTER RISK:
The informal city on the hills
Milton Montejano Castillo

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-Rm 201

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INTEGRATION OF HOUSING SCHEMES,
SOCIAL INTERACTION AND RESIDENT
WELL-BEING
Maria Lay, Márcia Lima

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A MORPHOLOGICAL STUDY ON THE RELA-
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AND VITALITY OF URBAN BLOCKS:
Examples in central area of Beijing and Tianjin
Qiang Sheng

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underpinnings of job opportunities
Ann Legeby

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019
EXAMINING SPACE TRANSFORMATION IN
APARTMENT-BASED HOUSING UNITS IN
ISTANBUL USING SPACE SYNTAX PARAM-
ETERS
Mehmet Emin Şalgamcıoğlu, Alper Ünlü

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NERUDAIN CONSTRUCTION: the case of
Isla Negra
Franciney Franca, Margarita Greene

021
THE INFLUENCE OF SPATIAL ORGANIZA-
TION OF THE HOME ON INHABITANT
ACTIVITY
Sonit Bafna, Earle C. Chambers

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037
A POROUS URBAN FABRIC: The structures
and scales of london's peri-urban develop-
ment from 1880 to 2013
Ashley Dhanani, Laura Vaughan

038
FROM COURTYARD TO MONUMENT: Effect
of changing social values on spatial configura-
tion of "the cities of the holy shrines" in Iraq
Mohammed Hussein

041
TURNING BARRIERS INTO ALLEYWAYS:
Unsolved transitions from Old Barcelona to the
Post- Cerdà city
*Antonio Millán-Gómez, Marisol Jiménez Rivera, Julio
Alan Latre Cabrera, Victor Diaz-Asensio García*

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046
UNSUPERVISED CLASSIFICATION OF
EVOLVING METROPOLITAN STREET
PATTERNS
Miguel Serra, Jorge Gil, Paulo Pinho

060
MEASURING THE STRUCTURE OF GLOBAL
TRANSPORTATION NETWORKS
Sean Hanna, Joan Serras, Tasos Varoudis

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FOREGROUND NETWORKS DURING URBAN
EVOLUTION: The effect of length and connec-
tivity on street network integration
Ermal Shpuza

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086
WHAT IS URBANITY ABOUT?
Douglas Aguiar

094
DESIGNING DIFFERENCE: Interpreting and
testing Jane Jacobs' criteria for urban diversity
in space syntax terms
Sara Sardari Sayyar, Lars Marcus

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085
A STUDY ON THE LEAD-LAG EFFECT OF
SPATIAL CONFIGURATION AND ECONOMIC
FACTORS: Focusing on spatial configuration
and the change of the hub of employment
Kyoung Yong Kim, Young Ook Kim

089
SPATIAL CONFIGURATION AND BID RENT
THEORY: How urban space shapes the urban
economy
Laura Narvaez, Alan Penn, Sam Griffiths

121
MEASURING THE INFLUENCE OF SPATIAL
CONFIGURATION ON THE HOUSING
MARKET IN METROPOLITAN LONDON
*Stephen Law, Kayvan Karimi, Alan Penn, Alain Chiara-
dia*

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ANALYZING THE SOCIO-SPATIAL CON-
STRUCTION OF A UNIVERSITY CAMPUS:
Aegean university as public space of student
community
Berna Yaylalı, Ela Çil, Isın Can, Pınar Kılıç-Çalgıcı

119
INTEGRATING THE RECREATIONAL SPACES
OF RANGPUR CITY CORPORATION, BAN-
GLADESH: A perspective from space syntax
Tasneem Tariq, Farida Nilufar

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035
THE SYNTACTIC ROLE OF "LYWAN" IN
NORTHERN MESOPOTAMIAN HOUSES
Alper Ünlü, Mehmet Emin Şalgamcıoğlu

039
MORPHOLOGICAL ANALYSIS OF THE
TRANSFORMATIONS OF KONAK SQUARE IN
IZMİR
*İşin Can, Ela Çil, Berna Yaylalı-Yıldız, Pınar
Kılıç-Çalgıcı, Koray Velibeyoğlu*

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CENTRALITY IN BEYAZIT SQUARE,
ISTANBUL
Ayşe Serma Kubat, Özlem Atalay, Özlem ÖZER

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A REVISED REPRESENTATION FOR SPACE
SYNTAX ANALYSIS BASED ON URBAN
STREET SPATIAL ATTRIBUTES
Sang Kyu Jeong, Yong Un Ban

057
SPACE SYNTAX ANGULAR BETWEENNESS
CENTRALITY REVISITED
*Tasos Varoudis, Stephen Law, Kayvan Karimi, Bill
Hillier, Alan Penn*

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097
UNFOLDING THE PATTERNS OF INFORMAL-
ITY IN THE CITY OF QUERETARO
Claudia Ortiz, Miguel Angel Llamas Estrada

099
A COMPARATIVE ANALYSIS OF URBAN
ARCADES IN "ISTIKLAL STREET"
ISTANBUL AND AN EVALUATION OF THEIR
POTENTIALS OF USE
*Ervin Garip, Mehmet Emin Şalgamcıoğlu, Fitnat Cimsit
Kos, Fulya Menderes*

115
THE SPATIAL LOGIC OF STREET MARKETS:
An analysis of Santiago, Chile
*Rodrigo Mora, Francisco Bosch, Carlos Rothmann,
Margarita Greene*

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17:30
Plenary Session
Closing Lecture
SPACE SYNTAX: Progress and prospects
John Peponis

19:30
Conference Dinner

SPACE SYNTAX SYMPOSIUM 9TH SEOUL KOREA

31 October - 2 November, 2013

KEYNOTE SPEAKERS

01. Bill Hillier - University College London, UK
02. Dominique Perrault - DPA LAB, France
03. Alan Penn - University College London, UK
04. Young Ook Kim - Sejong University, Korea
05. Renee Chow - UC Berkely, USA
06. Masao Furuyama - Kyoto Institute of Technology, Japan
07. Hawoong Jeong - KAIST, Korea
08. Marc Barthelemy - CEA-Institut de Physique Théorique, France
09. Juval Portugali - Tel Aviv University, Israel
10. John Peponis - Georgia Institute of Technology, USA

31st October

9:30
Space Syntax Workshop
Software Workshop
Akkie Van Nes, Tasos Varoudis
Teaching & Researching Workshop
Daniel Koch

14:30
Opening Ceremony

15:30
Coffee Break

16:00
Public Lectures
THE NOW AND FUTURE OF SPACE
SYNTAX: from structures and models to theory
Bill Hillier
TOWARD URBAN INTEGRATION
Dominique Perrault

19:30
Welcome Cocktail

1st November

8:30
Registration

9:00
Opening Lecture
THE CITY, HUMANITY AND SCIENCE:
The two cultures and the creation of value
Alan Penn

9:30
Spatial Culture of East Asian Cities
A NEW URBANISM OF SEOUL SEEN
THROUGH THE PRISM OF ITS HETERO-
GENEOUS NETWORK
Young Ook Kim
QUESTIONS FOR URBAN DESIGN:
Lessons from China
Renee Chow
JAPANESE URBAN STRUCTURE AND
CULTURAL CHARACTERISTICS
Masao Furuyama

11:00
Coffee Break

11:30
The Science of Cities
THE PRICE OF ANARCHY AND BRAESS
PARADOX IN TRANSPORTATION
NETWORKS
Hawoong Jeong
TOWARDS QUANTITATIVE URBANISM
Marc Barthelemy
HOW COMPLEXITY, NETWORK AND BIG
DATA MAY FACILITATE OUR UNDER-
STANDING OF CONTEMPORARY CITIES?
Juval Portugali

13:00
Walk to Seoul City Hall (Annex)

13:30
Lunch

14:30
Panel Discussion
Bill Hillier, Dominique Perrault, Renee Chow, Juval Portugali - Modulator: Alan Penn

15:30
Coffee Break

16:00
Seoul City Tour

2nd November

8:30
Registration

9:00
Plenary Session
072
TOWARDS A PSYCHOLOGY OF SYNTAC-
TICAL READINGS: The case of applying
a Cognitive Task Analysis method in
acquiring and utilizing configuration-
related knowledge
Konstantinos Ioannidis
075
STRUCTURE OF ATTENTION AND THE
LOGIC OF VISUAL COMPOSITION
Katherine Wright Johnson, Sonit Bafna
079
ON SPATIAL WAYFINDING: Agent and
human navigation patterns in virtual and
real worlds
Nicolas Orellana, Kinda Al-Sayed

10:30
Coffee Break

11:00
Parallel Session 1

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076
WHAT SYNTAX DOES NOT KNOW:
Movement triggers beyond integration
Vincent Langenfeld, Michael Rist, Ruth Conroy Dalton, Christoph Hölscher
080
STREET CHOICE LOGIT MODEL FOR
STROLLING VISITORS IN SHOPPING
DISTRICT
Ko Kawada, Tatsuya Kishimoto, Akiyoshi Fukai
082
IN THE INTELLIGIBILITY MAZE OF SPACE
SYNTAX: A space syntax analysis of toy
models, mazes and labyrinths
Lingzhu Zhang, Alain Chiaradia, Yu Zhuang

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001
EDUCATING ARCHITECTURE STUDENTS
TO DESIGN BUILDINGS FROM THE
INSIDE OUT : Experiences from a
research-based design studio
Sven Schneider, Saskia Kuliga, Christoph Hölscher, Ruth Conroy-Dalton, André Kunert, Alexander Kulik, Dirk Donath
004
NETWORKED ARCHITECTURAL INTER-
FACES: Exploring the effect of spatial con-
figuration on urban screen placement
Ava Fatah gen. Schieck, Kinda Al-Sayed, Efsthathia Kostopoulou, Mortiz Behrens, Wallis Motta
007
HOW SPACE SYNTAX CAN BE APPLIED
IN REGENERATING URBAN AREAS:
Applying macro and micro spatial analyses
tools in strategic improvements of 8 Dutch
neighbourhoods
Akkelies van Nes, Manuel López, Laura de Bonth, Dirk Verhagen, Simone Waayer

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066
EPIMETHEAN ARCHIVES: A Stieglerian
approach to socio-spatial memory exterior-
ization in Hillier and Portugali
Frederik Weissenborn
067
THE ARCHITECTURAL INTERFACE
INSIDE-OUT: Interior-exterior relations,
spatial models, and configurational
Daniel Koch

069
RURAL DOMESTIC SPACE AND THE
ITALIAN IMMIGRATION IN SOUTH
BRAZIL: Transmission of Culture through
space organization
Decio Rigatti, Elio Trusiani, Livia Piccinini

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048
A SYNTACTIC ARCHITECTURAL DESIGN
METHODOLOGY: Integrating real-time
space syntax analysis in a configurative
architectural design process
Pirouz Nourian, Samaneh Rezvani, Sevil Sariyildiz
050
SPACE SYNTAX FOR GENERATIVE
DESIGN: On the application of a new tool
Richard Schaffranek, Michael Vasku
062
SPOT WITH PATHS, AND INTERACTIVE
DIAGRAM WITH A LOW COMPLEXITY
ISOVIST ALGORITHM
Pablo Miranda Carranza, Daniel Koch, Asmund Izaki

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091
WALKABILITY: Perceived and measured
qualities in action
Ozlem Ozer, Ayse Sema Kubat
107
UNDERSTANDING WALKABILITY: Dealing
with the complexity behind pedestrian
behavior
Eunyoung Choi
108
STREETS FOR PEOPLE: Sustaining acces-
sible and sociable streets in Pasir Gudang
City Centre
Sharifah Salwasyed Mahdzar

12:30
Lunch

14:00
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073
ACCESSIBILITY IN PUBLIC SPACES:
Spatial legibility for visually impaired people
Ozlem Belir, Deniz Erinsel Onder
077
AESTHETIC AND EMOTIONAL
APPRAISAL OF THE SEATTLE PUBLIC
LIBRARY AND ITS RELATION TO SPATIAL
CONFIGURATION
Saskia Kuliga, Ruth Conroy Dalton, Christoph Hölscher
084
(IN)ACCESSIBLE CAMPUS: Space syntax
for universal design
Teresa Heitor, Rita Nascimento, Ana Tomé, Valério Medeiros

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011
VISIBILITY ANALYSIS, SIMILARITY AND
DISSIMILARITY IN GENERAL TREND OF
BUILDING LAYOUTS AND THEIR FUNC-
TIONS
Ehsan Abshirini, Daniel Koch
015
HOW STRONGLY PROGRAMMED IS A
STRONG PROGRAMME BUILDING?: A
comparative analysis of outpatient clinics in
two hospitals
*Kerstin Sailer, Rosica Pachilova, Efsthathia Kosto-
poulou, Raymond Pradinuk, Darlene MacKinnon, Ton Hoofwijk*

018
EXAMINATION OF SPATIAL CHARACTER-
ISTICS INFLUENCING SALES BY TENANT
TYPES IN SHOPPING MALLS
Eunmi Kong, Young Ook Kim

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028
INTERGRATING BICYCLE NETWORK
ANALYSIS IN URBAN DESIGN:
Improving bikeability in Trondheim by com-
bining space syntax and GIS-methods
using the Place Syntax Tool
Bendik Manum, Tobias Nordstrom
029
CAN SPATIAL FORM SUPPORT URBAN
ECOSYSTEM SERVICES?: Representing
patches and connectivity zones for bees
using space syntax methodology
Lars Marcus, Meta Berghauser Pont
031
INTEGRATING LAND WITH WATER
ROUTES: PROPOSAL FOR A SUSTAIN-
ABLE SPATIAL NETWORK FOR KERANI-
GANJ IN DHAKA
Farida Nilufar, Labib Hossain, Mahbuba Afroz Jinia

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A CONNECTIONIST APPROACH TO
PEDESTRIANS MOVEMENT IN URBAN
CENTRES
Decio Rigatti, Fábio Lúcio Zampieri, Vanessa Dorneles, Cláudio Mainieri de Ugalde, Andrea da Costa Braga
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ORIGIN-DESTINATION WEIGHTED
CHOICE MODEL AS A NEW TOOL FOR
ASSESSING THE IMPACT OF NEW
URBAN DEVELOPMENTS
Kayvan Karimi, Ed Parham, Eva Friedrich, Pete Ferguson
061
URBAN VALUE: Measuring the impact of
spatial layout design using space syntax
Stephen Law, Tim Stonor, Sammir Lingawi

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096
A CONFIGURATIONAL EXPLORATION OF
PEDESTRIAN AND CYCLIST MOVE-
MENTS:
Using Hangzhou as a case study, China
Xiaoling Dai, Wenbo Yu
098
COMBINING SPACE SYNTAX WITH GIS-
BASED BUILT ENVIRONMENT
MEASURES IN PEDESTRIAN WALKING
ACTIVITY
Sugie Lee, Kyung Wook Seo
110
DEFINING A STRATEGICAL FRAMEWORK
FOR URBAN PEDESTRIANIZATION
PROJECTS: Assessment of walkability in 3
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Ayşe Sema Kubat, Ozlem Ozer, Ayşe Ozbil

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16:00
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WALK, LOOK, REMEMBER: Art galleries
as spaces facilitating memory
Jakub Krukar, Ruth Conroy Dalton
078
SEEING THE AXIAL LINE: Evidence from
wayfinding experiments
Beatrix Emo, Ruth Conroy Dalton

083
MEASURING THE CHANGES IN AGGRE-
GATE CYCLING PATTERNS BETWEEN
2003 AND 2012 FROM A SPACE SYNTAX
PERSPECTIVE
Stephen Law, Fernanda Sakr, Max Martinez

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012
SPATIAL LAYOUT, SOCIAL NETWORKS
AND INNOVATION IN ORGANIZATIONS
Jean Wineman, Yongha Hwang, Felichism Kabo, Jason Owen-Smith, Gerald Davis
013
VISIBILITY AND PERMEABILITY RELA-
TIONS IN THREE-DIMENSIONAL
CULTURAL ENVIRONMENTS: The Ash-
molean Museum as a case study
Athina Lazaridou
017
VISIBILITY AND EXPOSURE IN WORK-
SPACES
Mateus Paulo Beck

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MORPHOLOGICAL TRANSFORMATION OF
HISTORICAL CENTRES IN TIANJIN
Yao Shen, Kayvan Karimi, Qing Xia
036
USING SPACE SYNTAX AND HISTORICAL
LAND-USE DATA TO INTERROGATE NAR-
RATIVES OF HIGH STREET 'DECLINE' IN
TWO GREATER LONDON SUBURBS
Sam Griffiths, Ashley Dhanani, Ellul Claire, Muki Haklay, David Jeevendrampillai, Nikolina Nikolova, Patrick Rickles, Laura Vaughan
040
DISTILLING 'URBAN KERNEL' FROM THE
REVIVAL PROCESSES FROM WAR
DAMAGE IN JAPANESE LOCAL CITIES
Tsuyoshi Kigawa, Masao Furuyama, Kyung Wook Seo

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CONFIGURATIONAL ANALYSIS ASSOCI-
ATED WITH VERTICAL TRANSITION ON
MULTILEVEL PEDESTRIAN MOVEMENT
Xiaoyu Song, Yu Zhuang, Xiaoling Dai
056
SPACE SYNTAX ANALYSIS INTEGRATING
STREET AND RAILWAY NETWORKS: A
case study in Tokyo
Masaya Fujitani, Tatsuya Kishimoto
106
REVIVING THE INLAND WATERWAYS OF
DHAKA: A morphological approach towards
an Integrated transportation system
Amreen Shajahan, Farida Nilufar

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HOW CITY SPACES AFFORD OPPORTU-
NITIES FOR RIOTS
Kinda Al-Sayed, Sean Hanna
111
ESTIMATION OF THE RISK OF SNATCH-
ING IN A SUBURB: Case study of Soka,
Saitama Prefecture, Japan
Tomofumi Fujii, Yuki Sasaki, Tatsuya Kishimoto
112
EFFECTS OF SOME SEGMENTS
FEATURES ON RESIDENTIAL CRIME IN
TWO BOROUGHs
Antonio Tarcisio Reis, Mariana Dutra, Graziella Zago

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3rd November

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9:00
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The Spatial Flaws of New Towns: Mor-
phological comparison between a Chinese
new and old town through the application
of space syntax, spacematrix and mixed
use Index
Yu Ye, Akkelies van Nes
088
A STUDY OF URBAN DENSITY IN
SHENZHEN: The relationship between
street morphology, building density and
land use
Haofeng Wang, Su Shi, Xiaojun Rao
090
SPACE SYNTAX, LANDSCAPE
URBANISM AND THE PERI-URBAN CON-
DITION: The case of Bologna and Modena
in Italy
Olimpia Cermasi, Sophia Psarra

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003
SYNTHETIC SPACE SYNTAX: A generative
and supervised learning approach in urban
design
Kinda Al_Sayed
005
COMBINING SPACE SYNTAX AND
SHAPE GRAMMAR TO INVESTIGATE
ARCHITECTURAL STYLE: Considering
Glenn Murcutt's domestic designs
Ju Hyun Lee, Michael J. Ostwald, Ning Gu
006
LAYOUTS OF OBLIQUE GEOMETRY AND
THE CONSTRUCTION OF DRAMATIC
SPACE AT HOME
Antigoni Katsakou

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065
BEYOND ANALYTICAL KNOWLEDGE: The
need for a combined theory of generation
and explanation
Sophia Psarra
068
NETWORK BUZZ: Conception and
geometry of networks in geography, archi-
tecture and sociology
Lars Marcus, Sara Westin, Lasse Suonpera Liebst
070
CHOREOGRAPHING EXPOSURE: Theatri-
cal configurations of architectural disjunc-
tion
Daniel Koch

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CENTRAL PLACES AND MODALITY
ENVIRONMENTS: An historical architec-
ture of urban places
Stephen Read, Jorge Gil
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'HUMAN VERSUS MACHINE': Testing
validity and insights of manual and auto-
mated data gathering methods in complex
buildings
Kerstin Sailer, Rosica Pachilova, Chloë Brown
058
SYNTACTIC APPROACH TO ELECTRIC
MOBILITY IN METROPOLITAN AREAS:
NE 1 district core, segment map
Eiman Y. ElBanhawy, Ruth Conroy-Dalton