

# **PROCEEDINGS**

of the

## **INTERNATIONAL CONFERENCE**

on

# **CHANGING CITIES III**

*Spatial, Design, Landscape & Socio-economic Dimensions*

**Under the aegis of**

The Department of Planning and Regional Development, University of Thessaly  
The Greek Ministry of Tourism

Editor:

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*University of Thessaly*

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In collaboration with:

- **The Department of Product & System Design Engineering**, University of the Aegean, Syros Island, Greece;
- **Syros Institute- Research Institute for sustainable development, cultures and traditions**, Syros Island, Greece;
- **The Association of Greek Planners (SEMPXPA)**;
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## FORWARD

The 1st international conference on 'Changing Cities', which was hosted on Skiathos island, 18-22 June 2013, had started as an idea in 2012. The initial concept was to organise an academic event creative, inspiring, stimulating, and above all, international. There had been a belief that such an academic event may contribute in revitalizing academia and promoting tourism in Greece - hit by the economic crisis of public debt in the Eurozone. Given that during the last years, both societies and cities in Greece have been dramatically changing, shrinking in economic, spatial and demographic terms, we have chosen Changing Cities as the main theme of this series of conferences. Our aspiration had been to provide an international forum for transaction of ideas on cities and bring together architects, urban designers, landscape designers, urban planners, urban geographers, urban economists, urban sociologists and demographers, to investigate new challenges. This goal became a reality since the 1st Changing Cities conference gained strong interest of academics and researchers from many countries and regions around the world; Greece and the Balkans, south Europe and Mediterranean countries, northwest Europe, Middle East and Asia, Far East, North America, Latin America and Africa. A total of about 460 abstracts and 320 papers had been submitted in the conference – most of them, about 60% from abroad.

The 2nd Changing Cities conference, Porto Heli, Peloponnese, Greece, 22-26 June 2015, was also fruitful academically since it attracted the attention of scholars, not only from Greece, the Balkans and Europe, but also from far-away countries like USA and Canada, Brazil, Chile, Colombia in Latin America, and China, Japan and Australia in the far-east. We received about 500 abstracts and more than 350 papers. Among the scholars participating, there were about 185 Greek academics and researchers. This indicated that despite shortage of research funds, salary cuts, and broken morale, university teachers and researchers in Greek state universities were trying hard to keep a high-level academic status. Besides, the number of contributions by scholars from abroad (63%) emphatically pointed the international character of the conference.

The results of the 3rd Changing Cities conference, Syros Island, Greece, 26-30 June 2017, points that the series of conferences on Changing Cities is getting established in the international academia as a significant bi-annual international forum. We have received 485 abstracts and 200 papers from many countries around the globe – honouring our efforts as Organising Committee. The contribution by Greek researchers and scholars is 27.42% while that of foreign academics reaches 72.58%; this indicates the international character of the conference. Regarding foreign academics, many of them are from neighbouring countries such as Italy (69), Turkey (37), Cyprus (11), and

Serbia (6); but also many are from distant countries such as Brazil (27), USA (16), UK (16), Poland (11), and Netherlands (10).

The strong interest for this conference by academic communities allows us to have thoughts about organising the 4th Changing Cities conferences in two years' time, spatially hosted in a different Greek sea resort – probably Santorini Island, or Crete.

I would like first to thank the Organising Committee, the keynote speakers, and the members of the international scientific board who supported enthusiastically the academic organization of this conference. I would especially like to thank those colleagues of the Scientific Committee who have also pre-organized special sessions in this conference. I would like to thank all the academic, political and scientific organisations which supported this conference in many different ways: University of Thessaly; The Municipal Authority of Syros Island; the Greek Ministry of Tourism; The Greek National Tourism Organisation (GNTO); Finally, I would like to thank the shipping companies 'Blue Star Ferries' and 'SuperFast Ferries' which sponsored sea travel to and from Syros Island.

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# TABLE of CONTENTS

Organizing Committee .....	iii
Scientific Board .....	iv
Forward .....	ix
Table of Contents .....	xi

## KEYNOTE SPEECHES

- **Prof. Taner Oc**, Editor of Journal of Urban Design  
Honorary Professor, The Bartlett School of Planning, UCL  
Faculty of the Built Environment, London, UK  
and **Elisabete Cidre**, UCL, Bartlett School of Planning  
*Heritage and Regeneration in Changing London*..... 3

## PRE-ORGANIZED SPECIAL SESSIONS

### URBAN NATURES FOR CHANGING CITIES

*organized by Prof. A. Ippolito, Università degli Studi di Roma "La Sapienza", Italy*

---

- **Temporary public landscape. Potential and risks of the public spaces in the Italian provincial town**  
*M. Aprile*..... 25
- **Fair natures in emerging minor urbanities. A green guide for seven categories**  
*R. Belibani, A. Capanna*..... 34
- **Patterns of Participative Governance in Planning and Management of Urban Green Spaces. Initial Assessments through the European and Greek experience**  
*S. Chaldezou, Y. Theodora*..... 45
- **Natural spaces river land in the urban context area**  
*D. Cialdea, N. Quercio*..... 62
- **New performances in urban nature. Recovery examples for the city crossing green pathways**  
*D. Cialdea*..... 79
- **Green infrastructures and biodiverse urban gardens for regenerating urban spaces**  
*M. Clemente, F. Bianconi, M. Filippucci, L. Salvati*..... 94

---

**Proceedings** ..... **xi**  
of the International Conference on **Changing Cities III:**  
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● <b>Urban natures for public spaces</b> <i>M. Clemente</i> .....	103
● <b>Urban natures as a new model of interaction between city and environment: a political and normative interpretation</b> <i>D.S. Damiano</i> .....	114
● <b>Models of knowledge and development of the urban vegetal architecture. Villa Celimontana in Rome</b> <i>L. D. Carlo, M.F. Mancini, L. Paris, F. Pierdominici, W. Wahbeh</i> .....	119
● <b>Urban natures for changing cities</b> <i>A. M. Ippolito</i> .....	131
● <b>Urban natures for urban resilience. Time-phases design for Changing Cities</b> <i>M. Marino</i> .....	145
● <b>Landscape by people: The landscape as glocalized resource</b> <i>C. Stivali</i> .....	156
● <b>Neither urban nor rural: landscape composition and land-use changes in the Mediterranean fringe</b> <i>I. Tombolini, S. Pili, L. Salvati</i> .....	164
● <b>Modern management of nature in the city</b> <i>A. Veisz</i> .....	172

## **PUBLIC SPACE AND SUSTAINABLE REGENERATION**

*Organized and chaired by Prof. M. Sepe, CNR-Università di Napoli Federico II, Italy*

● <b>Public space and sustainability: achieving livability through multimedia and urban design</b> <i>M. Sepe</i> .....	181
● <b>Issues on urban design of public space: social and spatial identifications in the case of 4 central squares in Athens</b> <i>K. Advelidi, A. Vitopoulou, G. Gemenetzi, K. Gortsos, F. Vlastou, E. Massou</i> .....	194
● <b>A critical overview on the outcomes of mending of the suburbs. Case studies and experiments G124.</b> <i>R. Belibani, A. Capanna</i> .....	208
● <b>DiverCity – intercultural perception for space</b> <i>K. Lehmann</i> .....	219
● <b>Incremental housing strategy. A possible approach for social and urban development</b> <i>M. Plastina</i> .....	230
● <b>A sequence of urban rooms. Public space as a regenerative structure</b> <i>L. A. Pezzetti</i> .....	236
● <b>Sustainable regeneration of academic public spaces. A choice of case studies</b> <i>E. D. Rynska, U. Kozminska, A. Tofiluk, K. Zinowiec-Cieplik</i> .....	249
● <b>Strategies for urban regeneration in Brazil</b> <i>C. Sanna, R. Secchi, P. Pineschi, E. Paez, M. Colazza, M. S. Ristruccia</i> .....	260

- **Studies for a precise intervention – public spaces in a central area in Brasilia, Brazil**  
*G. Tenorio, B. Kronenberger*..... 268
- **Sport and leisure as elements for the regeneration of public spaces in the Catalan region**  
*S. G. Troncone*..... 278

## **WATERFRONTS FOR HUMAN FLOURISHING**

*Organized and chaired by Prof. T. Townshend, Newcastle University UK  
and Prof. D. Babalis, Università degli Studi di Firenze, Italy*

- **Safeguarding old barracks and influencing positively nearby waterfront environment**  
*D. Babalis*..... 291
- **Re-designing urban waterfronts preserving heritage and improving urban environment. The case of Plomari**  
*E. Maistrou, K. Moraitis, D. Anastasiadis, E. Ioannatou, A. Konidi, G. Koussoulos, V. Malkakis, A. Benetou, G. Nikas, X. Xanthopoulou*..... 299
- **Waterfronts and Cultural Heritage. Questions and Challenges. The Case of Hydra**  
*E. Maistrou*..... 311
- **Urban landscape transformations through waterfronts' redesign. A new field to develop design tools and research approaches in architectural education**  
*D. Polychronopoulos, M. Grigoriadou*..... 321

## **SUSTAINABLE DEVELOPMENT, CULTURAL HERITAGE AND SPATIAL PLANNING IN SYROS, GREECE**

*Organized and chaired by Prof. J. Stephanou, Honorary professor of NTUA, President of Syros Institute, Prof. G. Pozoukidou and Dr. E. Linaki, Aristotle University of Thessaloniki, Greece*

- **Tangible and intangible cultural assets as means for sustainable urban planning and place making. The case of Ano Syros, Greece**  
*G. Pozoukidou, E. Linaki* ..... 333
- **Cultural heritage management and development strategy: the case of Ermoupolis-Syros**  
*Z. Paparsenou*..... 345
- **Protection and heritage management of the historical centre of Thessaloniki, Greece: the designation of 199 buildings of the early 20<sup>th</sup> century**  
*M. Selevista, M.M. Vyzantiadou*..... 356

## **SOCIAL AND URBAN INFORMALITY: MIGRATION, MULTINATIONAL AND MULTICULTURAL SOCIETIES**

*Organized and chaired by Prof. K. Moraitis and E. Konstantinidou,  
National Technical University of Athens, Greece*

---

- **Planning «Informality»**  
*K. Moretti* ..... 373
- **Occupation of an Urban Territory - the Duality of Nature and the Human**  
*A. Swiny, Y. Hadjichristou*..... 380
- **Absurd: the significative role of informality**  
*K.-O. Yenias*..... 392
- **Institutionalized Informal Urbanism on the Fringes of Mount Parnitha**  
*A. Zomas, M. Papavasileiou*..... 399

## **CULTURAL HERITAGE AND CHALLENGES OF TOURISM**

*Organized and chaired by Prof. Z. Enlil, Yildiz Technical University, Turkey*

---

- **Discontent and resentment in tourist-historic sites: Re-thinking tourism via the perspectives and attitudes of local residents and local businesses**  
*A. Altanlar, Z. Enlil, D. Kalkan Acikkapi* ..... 411
- **A new approach for sustainable tourism as a driver of conservation of the cultural heritage: Oleo tourism**  
*K. Manisa, B. Yerliyurt*..... 422
- **Space of craftsmen: A case study of tourism effects on Şişhane**  
*O. H. Yeğenağa, Y.S. Özer*..... 433

## **RESILIENT CITY – GOVERNANCE, NATURE, FORM, PEOPLE AND ECONOMY**

*Organized and chaired by Prof. T. Mrđenović, University of Beograd, Serbia*

---

- **Resilience and Sustainability: The Mutual Relations**  
*T. Mrđenović* ..... 447

## **NEW APPROACHES IN HISTORIC CENTERS PRESERVATION**

*Organized and chaired by Prof. D. Dimelli, Technical University of Crete, Greece*

---

- **Ancient city gates and modern checkpoints of Nicosia for the morphological theory of attractors**  
*A. Camiz* ..... 455
- **Revitalizing the urban archaeological palimpsest - infilling the city fabric**  
*K. Demiri*..... 466
- **How would you design your home? A research in collective design**  
*K. Varvatou, K. Sakantamis*..... 476

## URBAN PRESSURE IN COASTAL AND ISLAND AREAS: THE CHALLENGES IN IMPLEMENTATION OF MARITIME SPATIAL PLANNING IN GREECE

Organized and chaired by Prof. S. Avgerinou-Kolonia,  
National Technical University of Athens, Greece

- 
- **Coastal urbanization as a result of the absence of an integrated maritime spatial planning approach**  
S. Avgerinou-Kolonia, M. Rampavila..... 2135
  - **Current attitudes and lessons learnt in Maritime Spatial Planning: a focus on governance issues in Europe**  
S. Kyvelou-Chiotini..... 489
  - **Privatization of public land, spatial planning and *natural capital***  
D. Litsardou, R. Klabatsea ..... 501
  - **Urban pressure in coastal areas of Greece: the case of Corinthiakos Gulf**  
M. Papageorgiou, O. Christopoulou, T. Kostopoulou..... 515
  - **Coastal space as a means for urban development. The case of Faliron Bay in Athens**  
E. Spanogianni, Y. Theodora..... 526

## 'SAILING CITIES': SEASCAPE IDENTITY AND AEGEAN TOURISTIC PORT'S NETWORK

Prof. K. Moraitis, A. Mentekidou, National Technical University of Athens, Greece

- 
- **Establishment of networks between the islands of Northeastern Aegean Sea, in order to promote their seascape identity**  
A. D. Mentekidou..... 539
  - **Combined use of port facilities to host international sailing events as well operate as terminals of high capacity amphibious aircraft**  
S. Bouzeas, S. M. Gouloumis ..... 549
  - **Santorini, down and across how access re-frames insular identity**  
R. Lava..... 556
  - **Tourism and tragedy: the case of Lesbos**  
T. S. Terkenli..... 560
  - **Nodes of a Networked Seascape**  
A. Zomas, M. Papavasileiou..... 568

## METHODOLOGICAL TOOLS OF ANALYSIS FOR CREATING STRATEGIES OF INTERNAL URBAN TECHNOLOGIES

Organized and chaired by Prof. N. Marda & Prof. G. Parmenidis,  
National Technical University of Athens, Greece

- 
- **Mapping connections in online learning communities: architectural knowledge creation in the 'connectivist' paradigm**  
O. Ioannou..... 579

---

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- **Crisis Control and Provisional Evacuation Management Scheme in Sana'a City**  
*H. Nafa, M. Saeed*..... 590
- **Sensing the urban landscape: The challenge of data visualization and multisensory mapping**  
*T. Petras* ..... 599
- **Design by mapping the relational city**  
*A. Stamatopoulou*..... 606
- **Using Expanded Cinema design principles as an urban intervention tool**  
*O. Venetsianou*..... 618

**BOTTOM UP PLANNING INITIATIVES IN THE URBAN SPACE.  
A VEHICLE FOR A FURTHER DEMOCRATIZATION OF THE URBAN  
PLANNING PROCEDURE?**

*Organized and chaired by Prof. K. Serraos, National Technical University of Athens, Greece*

---

- **Civil society and institutional practices towards democratization of urban planning: case studies on three German cities**  
*K. Serraos, E. Asprogerakas, A. Chazapis, G. Gkoumopoulou, P. Voulelis* ..... 629
- **Athens revisited: Bottom up initiatives and organizational terms**  
*N. Anastasopoulos* ..... 640
- **For a civic-familial Athens: Exploring the cultural background of participatory initiatives**  
*M. Kiourti* ..... 649
- **A systematic correlation of public participation procedures with characteristics of areas addressed: The case of Athens metropolitan area**  
*A. Vassi, K. Athanasopoulos, F. Vlastou* ..... 658

**UNDER COLLECTIVE CONSTRUCTION**

*Organized and chaired by Prof. C. Siddi, University of Calgari, Italy*

---

- **“Under Collective Construction”. About the participatory and social potential in city-making**  
*C. Siddi* ..... 673
- **Current trends and future prospect to develop a multi-scale landscape identity**  
*S. Mocci* ..... 684
- **Creative spaces. The landscape design as an experimental laboratory**  
*C. Sciarrone, M. Pasquali* ..... 694



---

## INTEGRATED SUSTAINABLE ENERGY SPATIAL PLANNING

*Organized and chaired by Dr. N. Koutsoumarkos, Hellenic Association of Urban and Regional Planners (SEMPXPA), Greece*

---

- **A Co-planning Approach for Area-Based Holistic Energy Planning: The Experience of INTENSSS-PA project**  
*I. Giannouli, C. Zuidema, K. Salemik, K. Gugerell, S. Cantero-Celada, S. Blathra, C. Christidou, K. Leonhart-Petersen, A. M. Marinero-Peral, A. Tasopoulou, A. Papaioannou, N. Koutsoumarkos.....* 699
- **Defining sustainability-aimed urban metabolism indicators**  
*Y. Song, A. Timmeren, A. Wandl.....* 711

## INTEGRATED URBAN INTERVENTIONS, RESILIENT CITIES AND METROPOLITAN AREAS: CHALLENGES AND POLICIES

*Organized and chaired by Prof. E. Thoidou, Aristotle University of Thessaloniki, Greece*

---

- **From factory to symbol of identity: the resilience process of disused economic sites**  
*J. Cenci.....* 725
- **Changing approaches to urban intervention in Greece: The Integrated Territorial Investment (ITI) as a tool for sustainable urban development**  
*G. Katsavounidou.....* 734
- **Designing buildings for increasing the urban resilience**  
*A. Krstic-Furundzic.....* 740

## ORIGIN OF METROPOLISES AND TRANSFORMATIONS OF ARCHITECTURE IN THE 21st CENTURY

*Organized and chaired by Prof. A. Giacumacatos, Athens School of Fine Arts, Greece*

---

- **The impact of capital flows on urban growth in transition periods: Athens urban transformation (1875-1909)**  
*A. Ntonou Efstratiadi, P. Dragonas.....* 755
- **Induced stratification**  
*A. Castagnaro, F. Izzo.....* 766

## MAIN THEME SESSION

### EUROPEAN CITIES AND MIGRATION: SPATIAL IMPACTS OF OUT-MIGRATION AND IMMIGRATION

---

- **Naples Historic Center Formation and Management: The Influence of Socio-Economic Mobility on the City Spatial Features and Urban Planning**  
*M. Al Gammal.....* 773

---

#### Proceedings

of the International Conference on **Changing Cities III: Spatial, Design, Landscape & Socio-economic Dimensions**  
Syros, Delos, Mykonos Islands, Greece • June 26-30, 2017  
ISBN: 978-618-5271-12-1

● <b>Morphogenesis and social structure in modern Mediterranean cities: the case of Athens</b> <i>C. Bakalis, S. Chtouris</i> .....	784
● <b>The historic abandoned settlement as a potential strategic resource for a sustainable reception of immigrants</b> <i>C. C. Falasca, A. Gigante</i> .....	794
● <b>Welcoming cities: new strategies for contemporary urban requalification in the migration era</b> <i>F. Ficcadenti, R. Belibani</i> .....	805
● <b>Spatial aspects of housing policy developed in the aftermath of the recent refugee crisis in Greece</b> <i>G. Gemenetzi, M. Papageorgiou</i> .....	813
● <b>Introvert Boundaries and Vulnerable Cities: the design of Public Space as an Opportunity for the Managing of Migratory Flows and the Affirmation of Multiculturalism</b> <i>A. Gritti, G. Setti</i> .....	825
● <b>Diffusion of suburbanisation. Theoretical approach</b> <i>M. Mayer-Wydra</i> .....	837
● <b>Housing emergency and minimum requirements for reception: contribution to the strategy of resilience</b> <i>I. Montella, C. Tonelli</i> .....	850
● <b>Impact of population dynamics on spatial development of Belgrade urban region</b> <i>T. Nikolić, J. Petrić, T. Bajić</i> .....	861
● <b>The Impact of Migrations on the Spatial Characteristics of the City of Gdańsk</b> <i>L. Nyka, J. Szczepanski</i> .....	872
● <b>A guideline for intercultural city</b> <i>B. Petrella</i> .....	882
● <b>Ancienne; fragile; transitoire. The Panier case study; Marseille</b> <i>N. Suraci, G. La Delfa, A. Geuna</i> .....	893
● <b>An examination a relationship between migration-place attachment in refugee camps in the context of the image of the city and its components</b> <i>S. Tapki</i> .....	901
● <b>Refugees; migration and inclusive communities through design: an ‘urban interior’ approach to resilient cities</b> <i>C. Vains</i> .....	912
● <b>An evaluation of social impacts of spatial and functional changes in a historical urban site: Kuzguncuk</b> <i>N.Z. Gülersoy, S. Seçmen, G. Kuzey, O. Kargül</i> .....	927
● <b>Unravelling the urban challenge of ethnic and cultural diversity</b> <i>E. Zippelius</i> .....	939

## THEMATIC SESSIONS

### URBAN DESIGN IN PLANNING

● <b>Menteşe In History: Four Different Period; Four Different Urban Texture</b> <i>M. Aktaş, A. Sakarya</i> .....	953
● <b>Urban transformations in a coastal city and movement of people in public open spaces</b> <i>F. Antocheviz, C. Arsego, A.C. Braga, A.T. Reis, F. Zampieri</i> .....	965
● <b>Assessment of social and spatial effects of urban design in Athens: insights for a methodological approach</b> <i>K. Avdelidi, G. Gemenetzi, A. Vitopoulou, E. Massou, F. Vlastou, K. Gortsos</i> .....	977
● <b>Urban densification and daylighting: Existing daylight levels in Swedish multi-family housing as a base for future daylight requirement</b> <i>I. Bournas, M. Lundgren, M. Alenius, M.C. Dubois</i> .....	987
● <b>Neighborhood: different perceptions of the meaning by natives and immigrants in Athens during economic crisis: Examining the case of Kypseli</b> <i>M. Charalampidi, C. Desi-Louka, S. Yiannoudes</i> .....	998
● <b>Transforming a small city through urban planning by integrating urban green spaces. Case Study: City of Nafpaktos</b> <i>S. Ch. Fouseki, K. Sotiropoulou, V. Protopapa, D. Karvelas, E. Bakogiannis, I. Kyriazi</i> .....	1008
● <b>Residential choices and preferences in Athens: Implications for city planning</b> <i>G. Gemenetzi, V. Mourati, E. Zervas</i> .....	1014
● <b>Environmental Interiorities: Design through real-time data collection and analysis</b> <i>V. Geropanta, A. Karagianni, P. Parthenios</i> .....	1024
● <b>Examining the Role of Architectural Technology in Future Cities</b> <i>S. Habibi</i> .....	1032
● <b>Supports; patterns and infrastructural processes in open-ended design</b> <i>G. Kalnis</i> .....	1042
● <b>Prison and city: Reintegration of the “Korydallos” prison in Athens, Greece</b> <i>A. Kalymniou, K.A. Liapi, V. Petridou</i> .....	1051
● <b>Connected yet private: the design of multi-household housing in Japan</b> <i>J. McIntosh, Y. Kuboshima,</i> .....	1060
● <b>An Analytical Culture-led Approach to the Urban Revitalization of Historical Center and Walled Cities</b> <i>X. Lu, L. Pezzetti</i> .....	1071
● <b>The Ghost Town of Famagusta, Cyprus</b> <i>R. Makhoul Vassiliou</i> .....	1083
● <b>Urban interfaces and aesthetic evaluations</b> <i>A.T. Reis, A. F. Panzenhagen, V. L. Gerson, F. Bonoldi</i> .....	1092

● <b>Evaluation of urban waterfronts as public spaces</b> <i>S. Seçmen, H. Türkoğlu</i> .....	1103
● <b>Gentrification and urban design in the urban fabric of Rotterdam</b> <i>P. Stouten</i> .....	1116
● <b>Towards a form for transgression: Civil disobedience in urban milieu</b> <i>A. Tsarouchi</i> .....	1127

## CITIES AND HEALTH

● <b>Ecology and Design in Developing Ecosystem Services in Urban Regeneration Processes</b> <i>M. L. Delendi</i> .....	1139
● <b>Industrial city and health: first industrial cities in early 1819 to modern industrial cities</b> <i>S. Ch. Fouseki, D. Karvelas, E. Bakogiannis, I. Kyriazi</i> .....	1147
● <b>The preliminary works of a study on the design of healing gardens for patients with mental disorders</b> <i>E. Kamperi, A. Paraskevopoulou, C. Papageorgiou, M. Papafotiou, N. Demiris, M. Economou, C. Theleritis, M. Kitsonas</i> .....	1157
● <b>Therapeutic landscape design for older persons health and well-being</b> <i>C. Kershaw, J. Cornwall, J. McIntosh, B. Marques</i> .....	1163
● <b>Smart systems for rehabilitation and independence</b> <i>J. Lim, J. McIntosh, B. Marques, J. Cornwall, E. R. Rodriguez-Ramirez</i> .....	1171
● <b>Primary school pupils' perceptions of a typical urban school ground</b> <i>A. Paraskevopoulou, M. Panou</i> .....	1182

## SUSTAINABLE URBAN LANNING AND DEVELOPMENT

● <b>Transformation of the city identity: Causes and Effects</b> <i>M. Aboutorabi, B. Zalloom</i> .....	1191
● <b>GIS; VGI and open data during emergency: an experimental approach towards the resilient city</b> <i>L. Barbieri, D. De Ioris</i> .....	1201
● <b>Physical landscape and social diversity: a study of Australian cities</b> <i>I. D. Bishop</i> .....	1209
● <b>The strategic role of Universities for the sustainable regional and urban planning</b> <i>G. Calvano, G. Mangialardi, N. Martinelli, A. Tursi</i> .....	1217
● <b>Waterfront Development Management in Greece? The Case of “Lipasmata” in Piraeus</b> <i>T. A. Daamen, T. Papadopoulos</i> .....	1228
● <b>Well thought-out compactness at infra-local scale: determining the qualitative criteria linked to the limits of objective compactness when creating a predominantly residential block</b> <i>I. de Smet, D. Laplume</i> .....	1242

● <b>Eco-cities: Strategies of Rebuilding Communities for Resilient and Sustainable development in Egypt with Particular Emphasis on Aswan</b> <i>A. Elnokaly, A. Elseragy</i> .....	1253
● <b>Urban Space Living in a changing city: sidewalks of Curitiba</b> <i>H. M. Faria, c. de A. Lima</i> .....	1264
● <b>The Vacant City: is there anything that we can do?</b> <b>The Land of València; a case study</b> <i>G. i. Diaz, Fernando</i> .....	1274
● <b>A novel local development model paradigm: The case of Ippokratios race</b> <i>A. Goulas, M. Pappa, G. Theodosiou</i> .....	1287
● <b>Climate governance in Cape Town and Oslo:</b> <b>Moving towards co-creational leadership?</b> <i>T. Vedeld, H. Hofstad</i> .....	1294
● <b>Configurational analysis of the city of Sines: contributions to the sustainability of urban planning</b> <i>B. Lopes, R. Guerreiro</i> .....	1315
● <b>Urban morphology of Western military architecture in the urban development of Vietnam: the case study of Hue City</b> <i>V. N. Duc, A. Alici</i> .....	1326
● <b>Sustainable landscape design; key ideas for effective implementation</b> <i>A. Nikologianni, K. Moore, P. Larkham</i> .....	1338
● <b>Urban network of 'green' and 'blue' corridors as a tool of metropolitan and environmental planning. Case study research: the northeastern part of Athens</b> <i>E. Ntafa</i> .....	1347
● <b>The renaissance of tramway as a challenge for Transit Oriented Development: A pilot project in the city of Thessaloniki</b> <i>A. Papagiannakis, A. Yiannakou, D. Pateraki</i> .....	1357
● <b>Assessing local stakeholders' perceptions of the urban waterfront through the use of Q methodology</b> <i>T. Papatheochari, S. Niavis, H. Coccossis</i> .....	1371
● <b>Visual impact: The case of wind turbines in Samos presentation of potential sites under specific context</b> <i>F. Skalidi, D. Tsakou</i> .....	1382
● <b>Assessing the effect of Resilient Green Infrastructure on land values at the neighborhood level in the city of Cali, Colombia</b> <i>S. Grafakos, A. Tsatsou, L. D' Acci, N.E. Ramirez Aranda</i> .....	1389
● <b>Evaluating the effect of cool materials on microclimatic parameters under different climatic conditions. Application in the city of Thessaloniki</b> <i>S. Tsoka, E. Litserinou, K. Tsikaloudaki</i> .....	1401
● <b>Evaluation of nuclear power plants in respect to sustainability: Mersin City example</b> <i>S. Turgut, H. Berkmen</i> .....	1412
● <b>The role of Carrying capacity as a Quantitative method for Urban Sustainable Development</b> <i>P. Voulellis, K. Serraos</i> .....	1420

- **Actor Analysis in Decision Making Process of Urban Renewal in China: The Way to Achieve Sustainability**  
*T. Zhuang, Q. K. Qian, H. J. Visscher, M. G. Elsinga*..... 1432

---

**URBAN LANDSCAPES; LANDSCAPE PLANNING AND DESIGN**

---

- **Types and representations of terrain vague in the cinematic city**  
*E. Asimakopoulou*..... 1445
- **Increase security by recreating urban rivers in Tehran**  
*E. Bigdeli, O.R. Rahimi* ..... 1455
- **Intercultural narratives beyond borders**  
*L. Crespi, B. Di Prete, A. Rebaglio, R. Trocchianesi* ..... 1459
- **A map, thousand cities**  
*U. Domblás*..... 1471
- **Comparative approach of Izmir and Thessaloniki’s eco-landscape**  
*A. Chavrali, T. Sidiropoulou, C. Petropoulou*..... 1481
- **Therapeutic Landscapes: the role of culture**  
*W. Hatton, B. Marques, J. McIntosh* ..... 1495
- **The “urban sprawl” effect on the out-of-town real estate market**  
*A. Kiakou*..... 1504
- **Palmscaping. Tracing the multiple journey of the Palm tree  
The case of Mesolonghi; Greece**  
*C. Makedonopoulou*..... 1516
- **Recipro-city: synergistic processes from informal actions...**  
*A. Manca, C. Salaris*..... 1528
- **Removing disability: the restorative powers of landscape design**  
*J. McIntosh, B. Marques, M. McKone* ..... 1540
- **Water-potential-mapping for urban flood/drought resilience:  
A holistic approach to sustainable spatial planning and design by augmenting  
use; reuse and storage capacity of storm water in South East Queensland**  
*K. Ozgun, A. Moulis, P. Leardini* ..... 1549
- **Landscape changes: Quantitative representation of structure and spatial  
distribution of land uses in the Larger Urban Zones of Heraklion**  
*N. Rempis, G. Tsilimigkas* ..... 1562
- **The impact of the coastal development projects in the urban landscape  
of Heraklion**  
*N. Rempis, G. Alexandrakis*..... 1570
- **Athens - unauthorized: Unplanned but more planning than you would believe**  
*B. Röe* ..... 1581
- **Small city and a bridge. Landscape perspective**  
*A. Sas-Bojarska* ..... 1591

---

**ARCHITECTURAL DESIGN AND NEW TECHNOLOGIES**


---

- **Theoretical Outlines for a Complex Approach to Architecture**  
*F. Alves, V. Rato* ..... 1605
- **At school as in the city: spaces of imagination**  
*F. Bonfante* ..... 1615
- **What about commons in higher education?**  
*E. Frangedaki* ..... 1625
- **The innovative materials and technologies use as a means  
of architectural expression in urban lighting**  
*E. Skafida*..... 1633

---

**URBAN CULTURES AND PUBLIC OPEN SPACES**


---

- **Morphological analysis of squares in Europe’s common cultural context**  
*I. Alistratovaite-Kurtinaitiene* ..... 1645
- **Ladies who do ‘unboxing’ of their groceries. From Internet anecdote  
to contemporary material feminism applied to urban thinking**  
*A. Alonso Albarracin* ..... 1656
- **Human behavior and activity in public spaces**  
**The case of Monastiraki square in Athens**  
*C. Charalampaki, M. Kourouvani, D. Nikolaou*..... 1664
- **Autobiographical urbanities and design regression:**  
**Effrontery towards the urban; or the city as a game**  
*A. Dimitrakopoulos*..... 1675
- **Tactical Urbanism and the production of the common**  
**- an approach to emerging urban practices**  
*A. Farias, A. Gonçalves*..... 1685
- **Disputes for memory’s place and artistic action against urban intervention:**  
**a Brazilian case**  
*E. Marzulo, R. Capelato* ..... 1696
- **Narrating migration. Mnemonic traces connecting here and there  
and feeling “at home” away from home**  
*S. Moulara* ..... 1704
- **Interconnected realities: Transforming public space through digital networks**  
*K. Ntampiza* ..... 1716
- **Resource characteristics of architecture in Open House initiatives**  
*Y. Okamura, T. Nohara, A. Tanaka* ..... 1723
- **Inclusive playground for Children with Disabilities**  
*B. Sah, S. Z. Sadri*..... 1730
- **Palimpsest industry: industrial heritage and intangible cultural heritage  
in the creative city. A comparative study of the Old Truman Brewery  
in London and Technopolis in Athens**  
*S. Sarri*..... 1741

- **The city as a model for spatial design: museums; the new town squares**  
*K. Tzortzi, D. Monioudi-Gavala* ..... 1754

---

## HISTORICAL CENTERS AND BUILT HERITAGE MANAGEMENT

---

- **Comparative Remarks on Design Principles; Concepts and Terms used in Urban Conservation**  
*N. Apostolopoulou, A. Rodi* ..... 1765
- **The Recreation of an Urban Centre: The Case of the Abdullah Gul University Sümer Campus in Kayseri; Turkey**  
*N. Baturayoğlu Yöney\*, B. Asiliskender* ..... 1775
- **Reloading 21st century cities with cultural energy. The transformation of gas factories into cultural hotspots in Amsterdam and Athens**  
*T. Chatzi-Rodopoulou*..... 1786
- **Place-identity and urban tourism: a galaxy of social representations of places in capital cities**  
*A. S. de Rosa, L. Dryjanska, E. Bocci*..... 1797
- **Towards the preservation of visual identity of small historical towns**  
*D. Dijokiene, A. Vete* ..... 1808
- **Revitalizing Alexandria through its symbolic significance of heritage; urban form; and the distinctive spirit of place**  
*A. Elseragy, A. Elnokaly, M. Sabbagh*..... 1819
- **Landscape Conservation Policy and Tourism Developments in the Traditional Settlement of Oia; Santorini Island; Greece**  
*T. Ishimoto, Y. Okamura, K. Eguchi*..... 1835
- **The Aegean vernacular as vacant signifier: projections of meaning by modernist and post-modern architects**  
*N. Magouliotis* ..... 1847
- **Showcasing the heritage of historic towns as a vehicle for development planning. Case study: Langadia; Gortynia; Greece**  
*E. Maravelia, A. Koumpouli, M. Pateraki, V. Daskalakis, E. Kamontou, V. Katsimpoulas, I. Kavvada, M. Kilia, M. Kostagianni, I. Kourouni, D. Mpartzis, N. Papailiou, M. Vasila, E. Vasileiou, E. Maistrou, E. Konstantinidou* ..... 1858
- **Residents' perceptions about participation in cultural heritage displaying**  
*V. D. Spanos, O. Christopoulou* ..... 1869
- **When city branding meets ...geology**  
*V. D. Spanos* ..... 1879
- **Social and Spatial Changes In Urban Historic Neighbourhoods: Case of Cihangir District - Istanbul**  
*M. Ö. Kınacı, N. Z. Gülersoy*..... 1885



---

**ENVIRONMENTAL URBAN PLANNING**


---

- **Waterscapes in transformation: insights on landscape accessibility challenged by new infrastructures for climate resilience: The case of the Flemish Coastal area: Uitkerkse Polders**  
*S. Pillen, K. Scheerlinck, E. Van Daele* ..... 1903
- **The proposed Park Road between Itatiaia main center and Penedo township: reflections upon the interests of the county administration and the communities involved**  
*I. Silveira, J. Rodrigues* ..... 1913
- **Climate Adaptation Strategies in Mediterranean Metropolises**  
*S. Tsoumalakos, O. Christopoulou* ..... 1923

---

**GREEN ARCHITECTURE AND URBAN PLANNING**


---

- **Deep renovation in changing cities: Densification and real-estate value for cost-effective energy targets in the ABRACADABRA strategy**  
*A. Ferrante, A. Fotopoulou, E. Cattani, G. Semprini* ..... 1935
- **The importance of green infrastructure planning in urban sustainability: Case study Ankara-Turkey**  
*N. Shakouri, M. Güneş* ..... 1947

---

**TRANSPORTATION PLANNING AND POLICY IN CITIES**


---

- **Niterói; RJ; Brazil; The Waterwais crisis and the “boalt revolt”**  
*M. Azevedo* ..... 1957
- **The notion of “sustainable intelligence” in a “smart” road network. The case of Tsimiski str; a most important commercial axis in the center of Thessaloniki**  
*S. Vougias, K. Anastasiadou* ..... 1968

---

**URBAN PLANNING LAWS; REAL ESTATE AND PROPERTY RIGHTS**


---

- **Spatial planning system’s structure. Focus on urban development: Urban layout planning, plot arrangement – compensation acts, urban planning implementation acts**  
*T. Gkegkas, E. Stylianidis, P. Farmaki* ..... 1981

---

**URBAN ECONOMIES AND SPATIAL IMPACTS**


---

- **Spatial configuration of industrial development corridors: configurational impacts of the road expansion in urban industrial sites of Porto Alegre – Brazil**  
*D. Altafini, A. Braga, F. Zampieri* ..... 2001
- **Where do Greeks work during the economic crisis? A quantitative study of the spatial concentration of Greek employees**  
*E. Anastasiou, S. Manika* ..... 2012

---

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ISBN: 978-618-5271-12-1

- **Urban metabolism under pressure three major Greek cities transforming through 20<sup>th</sup> century**  
*K. Christoforaki*..... 2024
- **Changing local urban spaces: the case of housing projects**  
*M. Corrêa; M. L. Silva* ..... 2036
- **Cyclades Archipelago: Regenerating productive landscapes**  
*F. Pitoglou*..... 2045
- **Expanding cities through summer residential suburban development**  
*M. Stenou*..... 2057

## **PLACE MARKETING AND CITY BRANDING**

---

- **Space; identity and memory policies for the Jewish Community of Thessaloniki: a diachronic approach**  
*I. Frangopoulos, G. Kazantzi, M. Evdou, N. Karanikolas*..... 2067
- **Branding areas in transition: Balkan cities**  
*E. G. Gavra, K. Gkioufi*..... 2080

## **SHRINKING CITIES AND DIVIDED CITIES**

---

- **The housing emergency in Palermo between rights and legality**  
*F. Lo Piccolo, A. Giampino, V. Todaro*..... 2089
- **Urban regeneration policies against spatial impacts of economic crisis**  
*S. Manika, E. Anastasiou, K. Manika*..... 2098

## **MIGRATION, MULTINATIONAL AND MULTICULTURAL SOCIETIES**

---

- **The development of a landscape: a *Little India* in the Pontine Plain**  
*S. Boca*..... 2109
- **Sociospatial integration of Haitian immigrants in *Lajeado*; Brazil: a configurational study**  
*F. Braun-Spinelli, A. Braga*..... 2118
- **The effects of higher education students on the housing market from the Studentification Perspective**  
*T. Tuncer*..... 2128

**Author Index**..... 2149

**Subject Index** ..... 2155

**Sponsors** ..... 2165

# Public Space & Sustainable Regeneration



Organized and chaired by:

**Prof. M. Sepe**

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## **Sport and leisure as elements for the regeneration of public spaces in the Catalan region**

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### **Abstract**

In the Catalan region, after the fall of the dictatorship, a process of democratization of the cities begun. Especially the research will focus on the process of democratization of public open spaces and the practice of sports. Sports facilities are considered to be part of a system of basic equipments, to be included in a plan of reconfiguration of outdoor spaces and services for the citizen in general. The experimentation on this issue in the Catalan region has led to the definition, on one hand, of the sports pavilion, and on the other to the integration of sports and school services.

*Keywords: public space, leisure, Catalan region, sport-for-all, equipment*

### **1. INTRODUCTION**

The work presented in this article is part of the research conducted for the Ph.D. thesis with the title "Theoretical and practical aspects in the design of architecture for sports: functional integration and settlement strategies". The thesis studies the evolution of facilities for sport and leisure since the post-war years till today. Although this topic is already studied by historians, sociologists and geographers, the experimentation and construction of buildings for leisure has yet to be fully investigated by architectural research.

In the first phase of the research has been studied the contribution of several disciplines that had introduced new paradigms and themes about the typological and settlement characteristics of the sport spaces.

The study does not focus on facilities specialized for the competitions, as many publications on stadia and sport palaces are already edited, but it deals with multifunctional facilities facing with the urban scale, related with the context in which are located and with a high level of attractiveness. My research will focus on facilities related to this.

#### **1.1 'De-sportification' of sport and new settlement forms**

Since the end of the Sixties and during the Seventies appeared the phenomenon named by the sport historians as Jogging Revolution. This is the era of the switch from sport as a specialised activity to leisure in which sport figures as part of a new and better way of life.

In the Italian context, an important reference is the work of the sociologist Nicola Porro<sup>1</sup>.

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<sup>1</sup> Professor of Sociology at Facoltà di scienze motorie, Università di Cassino. He was president of the UISP association (Unione italiana sport per tutti) and of EASS (European Association of Sociology of Sport).

According to him, the expansion of the physical-motor practice, known in Italy in the last three decades of the Twentieth Century, brought back to a more general transformation of lifestyles which involved all the industrially mature societies. He notes, according with the theories of Inglehart and Knopp<sup>1</sup>, a silent post-materialism revolution in which there was a simultaneous process of sportification of society and de-sportification of sport.

The outlines of the changing of the sport phenomenon given by sociologists and geographers introduce the issue of a transformation of the settlement forms of the spaces designed to the practice of sports. Running, as other sports, is no more performed exclusively in the specially fitted spaces (stadia, sport palaces, ecc.): sport is incorporated in the city<sup>2</sup> both by a more free use of open public spaces and by the construction of multifunctional facilities for leisure.

## 1.2 Peculiarities and invariants of the leisure centre: a comparative approach

It was useful for the research purpose to frame the theme of the leisure complex in a wider spectrum. In this way I worked to focus the relationship among architecture, functional organization and customer. In this three main factors were recognized the key elements in setting of sports space. Taking this line of work it is possible to identify five main time-spans:

- 1900-1920: patronage and mutual association of self-support play an essential role in the organization of leisure
- 1920-1940: authoritarian, patronising and relief structures organize leisure in a political and hierarchical system
- 1950-1970: spread of the welfare-state policy related to the democratization of leisure
- 1970-1990: the increase of associative experience based mostly on voluntary action 'take place' of the state organization
- 1990-2016: the beginning of the debate about the organization of a 'Second Welfare' promoted mainly by private system

This periodization helps to make evidence of the relationship among customer, uses and settlement's characters of spaces for sports practice. Based on this it a first hypothesis was drawing up about the selected context for the comparison (Figure1):

- for the period 1950-1970 it considered the English case and the experimentation on multi-purpose buildings and civic centres. The leisure centre
- for the period 1970-1990 the Spanish case offers many suggestion, not only for the 'Barcelona model'<sup>3</sup>, but also for a range of architectural experiments on the issue of 'sport for all'. The district equipment
- for the period 1990-2016 the experience of the South/Central-American countries and the Brazilian Sesc<sup>4</sup> that provides an interesting instances on the 'Second Welfare' opportunities. The second (welfare) opportunity

<sup>1</sup> Inglehart, R., 1996, *Modernization and Postmodernization. Cultural, Economic and Political change in 43 societies*, Princeton University Press, Princeton; de Knopp, P., 1998, *Sport, Turism: a State of the Art*, in "European Journal for Sport Management", vol. 5, 2, pp. 5-20.

<sup>2</sup> Porro N., 2001, *Lineamenti di sociologia dello sport*, Carocci, Roma

<sup>3</sup> Related to the assignment of the 1992 Olympic games, it was being promoted a set of urban fabric renewal initiatives and had successfully developed the urban environment and its public spaces.

<sup>4</sup> The *Serviço Social do Comércio* is a non-profit private institution, kept by businessmen in the trade of goods, services and tourism. It aimed primarily for the welfare of their employees and family but open to the general community.



**Figure 1:** London, Heamstead civic centre, Basil Spence, 1964; Barcelona, Perril sports centre, Bach-Mora, 1989; Monterrey, Community center San Bernabé, Agustín Landa Vértiz, 2011

## 2. METHODOLOGY AND CASE STUDY

Referring to the time-spans presented in the introduction the comparative work was organized among different contexts. The comparative analysis will be diachronic: cross-cutting through the identified spans, comparing different environments, Welfare policies and the architectural and settlement's characters; synchronic: comparing case-studies studied in their peculiarities, with the aim to trace the experimentation on Welfare sport architectures in a specific geographical context and period of time.

The research aims to:

- clarify the relationship between "main issues" (as invariants) and architectural design
- assess the functional requirements and set out the architectural characters (interdependent variables) that are the constitutive elements of typology.
- codifying invariants and peculiarities of case-studies

### 2.1 Methodology

Compared to the overall goals this article aims to deepen the time span 1970-1990 and the Catalan case. In order to achieve the objectives it is preferred, after a brief introduction, focus on sport's architecture taken into consideration. Themselves will offer opportunities to a more general discussion on the Catalan architectural.

The analysis of this theme is based upon, at first, general texts on the architectural and urban matter of Barcelona. It was then examined the issue of the promotion of sport-for-all and its architecture in Catalonia. Then it was conducted an examination of journals at the Biblioteca de Catalunya and the library of the Col·legi d'Arquitectes de Catalunya.

The collected documentations has been indexed according to defined criteria (place, architect, typology, construction years) and organized interpretive profiling that summarize the settlement and architectural characters.

Through a redrawing of a selection of these architectures started the identification and comparison of the constituent architectural elements of the projects.

### 2.2 The Catalan case

*The political change of the late 1970s was [...] the right time to believe that the age-long breach between culture and local government would be closed so that both sectors could work in harmony. The efforts made in this sense, both by the architects forming part of the government and by those others who, though not part of it, have contributed their design, began a new era of extraordinary vitality in Catalan architecture. Indeed, when compared*

*with the rest of contemporary architecture in Europe, the present state of Catalan architecture is unique in regard to the amount of output and its wide scope. [...] Our particular contribution in response to this challenge lies in understanding and struggling for architecture as a necessity.*

(Josep Lluís Mateo<sup>1</sup>)

The development of sports practice is inherently commingled with the social and political conditions of the country. Sixte Abadia Naudi, the sport historian, compares the democratic transition of Spain to the dissemination of sports practice “*para todos*”. In the first period, 1975-1979, sport associations are the main promoters of the indispensable<sup>2</sup> reorganization of leisure activities. From 1979 on, it is the charter of self-government which stated that sports policy would be the exclusive competence of the Generalitat, so for the first time during peacetime, this regional Catalan institution was able to organize sports.

In the same year the *Manifesto*, edited by Asociaciones de Vecinos de Barcelona, finds the main set of problems of the city, among which « *Sports equipment should be obtained, deprivatizing sports areas, to municipal ones, rearranging free zones for the construction of new equipment for the practice of sports. It will be extremely important to coordinate actions with school, cultural and sports facilities.*»<sup>3</sup> This piece clarifies that the understanding of sport they are looking at is the one of “*de Vecinos*”, of “*deporte para todos*”, to be integrated with the educational and cultural ones.

Sport is considered to be part of a system of basic equipments, to be included in a plan of reconfiguration of outdoor spaces and squares<sup>4</sup>. Therefore it is important that it is reached a widespread diffusion of these facilities within the city and that they are linked to other services as well (for example, a civic centre or a school).

### 3. PAVILLIONS AND SCHOOLS: TWO POSSIBLE SPORT'S FACILITIES

*Sports facility is currently, in a developed society, the base of the practice of sport. Today you can not talk about sports minimally qualified without talking about adequate facilities. It is clear that, understanding the social phenomenon of sport as a whole, there are many opportunities to develop physical, recreational and sporting activities without having conventional facilities, since the natural settlement (beaches, Collserola mountains, parks and the city port) can be used by citizens to do sports activities. However, it seems clear that the natural environment is insufficient to develop the quanti-qualitative levels of sport and any efficient sport's policy requires a good allocation of sport's installation.*

(Enric Truñó<sup>5</sup>)

<sup>1</sup> in *Architecture and power*, in 'Quaderns d'arquitectura i urbanisme', n 164, 1985. Josep Lluís Mateo Ph.D. architect. Projects professor at ETSAB and professor of Architecture and Design at ETHZ since 2002. Editor for ten years of the journal Quaderns since 1981

<sup>2</sup> The investigation *El Espanol y el deporte: datos de una encuesta* conducted in 1975 by ICSA-Gallup pointed out a lack of facilities for sports claimed by people as a social need

<sup>3</sup> Associació de Veïns de Sarrià. *A tots els ciutadans*. Sarrià, publicació de l'Associació de Veïns, 1979

<sup>4</sup> *Reconstrucción de Barcelona* by Oriol Bohigas was published in 1986 and that was determining for the drawing up of the 'Barcelona Model' and its successful nomination to host the Olympic Games

<sup>5</sup> in *La ciutat de les anelles. L'esport a la Barcelona Olímpica*, edicions 62, Barcelona 1987. Enric Truñó was councilman of the City Council between 1979 and 1998, being the councilor responsible for the 1992 Summer Olympics. As Councilor for youth created the Department of Youth (1979-1997) to implement the youth policy of the council

According to Bohigas<sup>1</sup>, Barcelona was a city already done<sup>2</sup> at the beginning of the eighties and has to be regenerated. Therefore projects have to resolve specific and situated problem that have a their own dynamics, within an existing possibilities.<sup>3</sup> Sports facilities, for their public and popular nature, can include this dynamic force, but, using the words of Ignacio Paricio, «*the insertion of these specific buildings into a residential plot can hardly be done without traumas to the urban fabrics or to the functionalism of the installations*»<sup>4</sup>.

The theme of the relationship between specific dimensional necessities and grafting in a consolidated context is dealt with in the design of services facilities of a neighborhood: in particular, as mentioned, sports equipment is often combined with school facilities, both of which require a significant increase and should be in every neighborhood of the city. This issue has led to the development of an experiment on the school typology that incorporates sports services into its own structure.

A second settlement of sports facilities has been the definition of a specific type for indoor sports: the sports pavilion. These facilities are built in Barcelona as well as throughout the Catalan region to provide citizens with a sheltered place suitable for both smaller sporting events and different types of recreational activities.

The article therefore focuses on the study of the architectural character of the sports pavilion, on the other hand, and, on the other, on the recognition of peculiarities of some facilities built in Barcelona.

### 3.1 Sports pavilion: setting of a typology

*The issue that concerns us, the sports building, is a frequent program on the boards that implies a type of public construction in which converge some of the characteristics of the new task. Particularly three of them are often present: the reference to the city, the importance of the structural component and the forecast of the intense and hard public use of the facilities.*

(Ignacio Paricio<sup>5</sup>)

The Real Decreto núm. 1668 /1980 of 31-7-1980 sets the transition of Physical Culture and Sports services from the State Government to the Government of Catalonia (Generalitat de Catalunya). The Direcció General de l'Esport was founded as a body that will directing sport in Catalonia.

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<sup>1</sup> Oriol Bohigas was professor at ETSAB since 1964 and in 1977 was appointed director, a position he left in 1980 to become delegated of the urban area of the City Council until 1984. Since then he became minister of urban development council, a position from which he determined the urban policy of Barcelona.

<sup>2</sup> in *Diàlegs a Barcelona. Oriol Bohigas-Oscar Tusquets*, the two architects explain the town planning strategy adopted for Barcelona, a city that has no expansionist vocation, rather manifested a will to reconstruct the city already built.

<sup>3</sup> Several studies have been published on the urban strategies implemented in Barcelona during the 1980s. At this stage, reference was made to Bohigas texts including: *Per una altra urbaitat*, in *Plans i projectes per a Barcelona. 1981/1982*, Ajuntament de Barcelona 1983; *Reconstrucció de Barcelona*, Edicions 62, Barcelona 1985

<sup>4</sup> in *Más urbanos, más amplios, más fuertes. Los edificios del deporte*, in "A&V Monografías de Arquitectura y Vivienda", n. 33, 1992.

<sup>5</sup> in *Más urbanos, más amplios, más fuertes. Los edificios del deporte*, in "A&V Monografías de Arquitectura y Vivienda", n. 33, 1992. Ignacio Paricio Obtains the title of architect at ETSAB, 1969. Since 1981 is professor of Construction at UPC. Main publication about his works are: *Documentos de Arquitectura*, Revista del Colegio de Arquitectos de Almería, n. 13, 1990; *Construcciones. Lluís Clotet e Ignacio Paricio*, in "A&V Monografías de Arquitectura y Vivienda", n. 43, 1993.



Eight years after its foundation the Direcció organizes the exhibition "Vuit anys d'arquitectura per a l'esport"<sup>1</sup> at the museum and research centre on sport "Dr. Melcior Colet". The catalog of this exhibition shows the work's path conducted in this time span that had the intention of «*minimally cover the entire region of Catalonia, helping to sport's frames, sort them, regulate them and try to place them in many cases at the level of the best sports structures in Europe regarding its functionality, services, pavements, hygiene, comfort, etc.*»<sup>2</sup>.

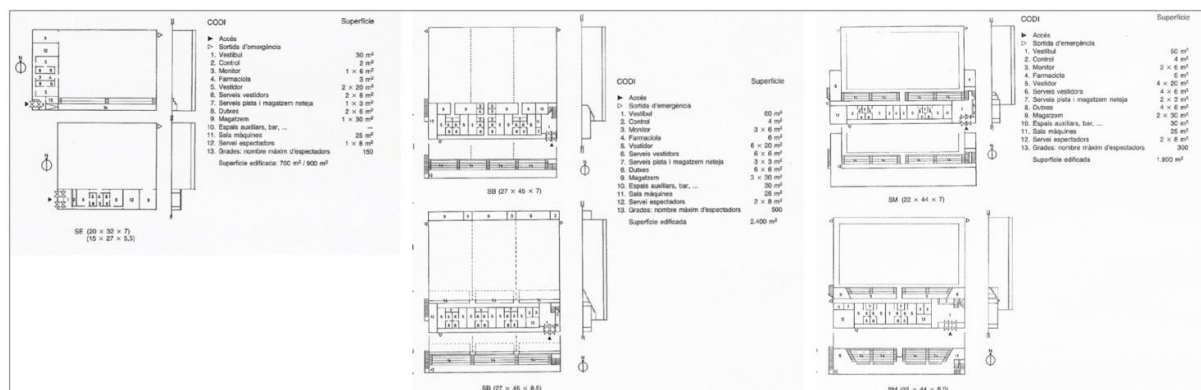
This ambitious project sets at the basis three basic principles:

- facilities are at the service of sportsman rather than the spectator, in order to guarantee maximum functionality and comfort
- buildings have maximum performances at the lowest possible cost, which does not mean cost-effective constructive quality, but the actually constructed square meters are minimal in relation to their performance
- do not limit the space to a single sports practice, but design it suitable for as many uses as possible

In order to achieve this, and therefore the construction of hall for the practice of sports, in a high architectural quality at low cost the Direcció General de l'Esport sets a series of datasheets with the minimum requirements that define a "mòduls tipus"<sup>3</sup>.

This datasheets specify both with short captions and with plan and section schemes an organization-type of spaces.

The datasheets are drawn up for different type of facilities: indoor and outdoor swimming pool, open air fields, athletics track, ect. For the indoor equipments are formulated three different classes of sports pavilion (Figure 2) : hall type S.E. (20x30m), S.M (22x44m), S.B. (27X45m).



**Figure 2:** plan and section schemes taken from the datasheets: hall type S.E., S.M., S.B.

These directions provide the elements from which architects move in the design of the sports halls. For this typology indeed there is not an architectural tradition from which drawing on as, we will see later, it was for school.

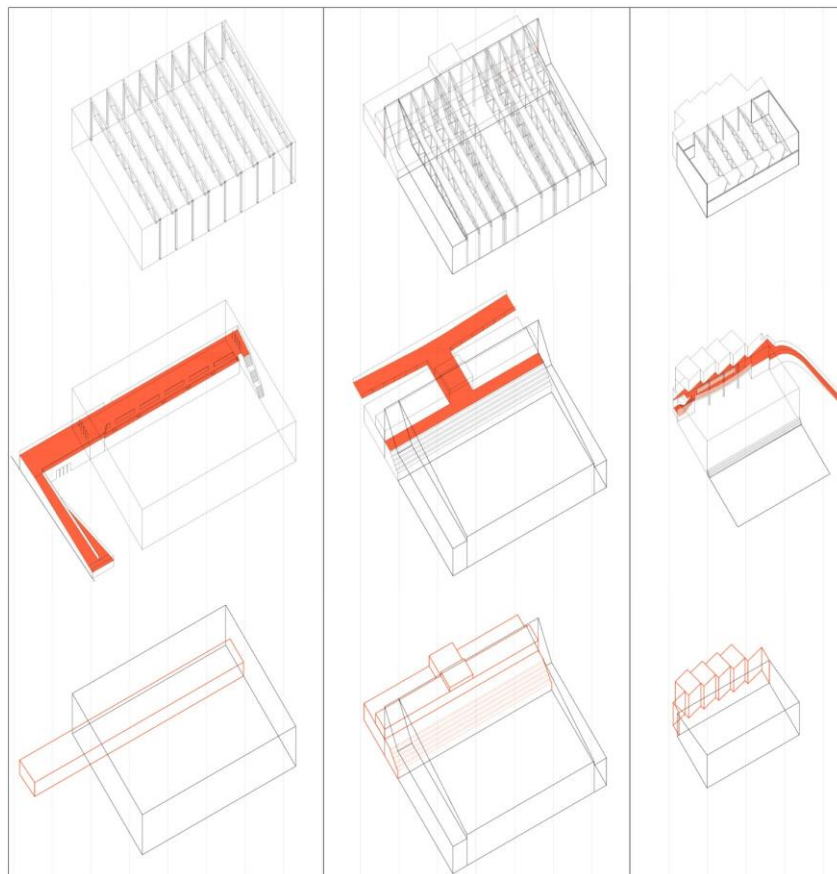
<sup>1</sup> The catalog is published on the occasion of the exhibition with the title: *Vuit anys d'arquitectura per a l'esport. Catàleg de l'exposició*, Generalitat de Catalunya, Direcció General de l'Esport, Barcelona 1988

<sup>2</sup> Josep Lluís Vilaseca i Guasch, Director General de l'Esport de la Generalitat de Catalunya, in the Introduction to *Vuit anys d'arquitectura per a l'esport. Catàleg de l'exposició*

<sup>3</sup> The sheets, still used, are a collection of documents that briefly outline the typological requirements and regulatory aspects established by the Catalan Sports Council for the basic network facilities.

Studying some of these buildings, it is possible to recognize the architectural elements used to meet the technical and qualitative requirements. It has also been noted that despite the fact that pavilions refer to different classes, these elements remain constitutive design elements (Figure 3). These are:

- the relationship between the volume of the sports hall and the services one: the part containing services differ volumetrically and structurally from the main hall and retain their own figurative autonomy
- the organization of path: the paths for spectators and players are autonomous. The players' services are preferably located at the same level of the sports field and underneath the spectator's space, that is at a higher level to provide a good view of the playground through a balcony. Only some of the larger pavilions are equipped with stands
- the structural elements of the sports hall: a sequence of reticular beams arranged orthogonal to the field represent the structural theme of the sports hall. The beams do not always have a symmetrical design: their profile is related to the internal organization of the spaces and the ways to bring in an indirect light. In turn it determines the volumetric shape of the sports hall



**Figure 3:** study of the architectural elements of three sports pavilion: relationship between volume of sports hall and services, organization of path, structural elements of sports hall. Sports pavilion Raval, Jordi Farrando, 1989; Sports pavilion l'Escala, Llorens Geli i Batllori and Juan Luis Sancha, 1985, Sports pavilion La Floresta, Victor Rahola Aguade, 1984.

### 3.2 School: vertical organisation of district services

*Perhaps the interesting novelty of this current experience -beyond their scope- is the appearance, sometimes discreetly, other times more explicit, of a form of design that wants to explain what about public, and therefore what is centrally urban, can mean a schools equipment, especially when it appears in the already built city. [...] This work, which is not strictly educational nor pedagogical in a restrictive sense of the term, may become, however, a truly civic task.*

(Ignasi de Solà-Morales<sup>1</sup>)

When Manuel Brullet i Tenas in *L'Arquitectura Escolar a Catalunya i la seva evolució*<sup>2</sup> makes the evolution of architecture for schools presents the last span, 1977-1986, with the title *L'escola com a equipament integrat*. This slogan synthesizes the way in which schools are designed: not only the place of education but as a cultural and social center for the community living in a district. Its spaces have to be intended to offer different services during the all day. For this reason «*must be defined clear architectural spaces, allowing use change and emphasise the unity and complexity of cultural relationships.*»<sup>3</sup>

These words shape a cultural reorganization in which cultural and recreational organizations look at sport as an activity that can be integrated into their program. Architects called to design new schools, encouraged by school building sports development programs<sup>4</sup>, developed interesting solutions to integrate the spaces of sports into the school building.

In Barcelona this experimentation of school typology is measured with some antecedents called *Escoles Actives*<sup>5</sup>: schools built in the period 1957-1970 and conceived with a high degree of polyvalence of the common spaces that assumed a key role in the planimetric organization of the school. Until then it is mainly about private institutions. Examples are the ones designed by MBM arquitectes<sup>6</sup>: Escola Sant Jordi (Figure 4) where around a central collective place (square) are organized classrooms (private spaces) searching an analogy with the urban structure.<sup>7</sup> Covering a range of terraces for the children recreation and a playground. These experiences have behind us an important season for Barcelona's school building. In 1916 was founded the Oficinas de la Comisión de la Cultura in which the advisory was the pedagogue Manuel Ainaud and Josep Goday was the architect of the Grups Escolars de Barcelona<sup>8</sup>. Among the built schools, eight in all, there is Escola Baixeras (Figure 5) in which «*classrooms (...) are grouped around a vestibule that humanizes and gives physiognomy to this central place that, on the other hand, is used for exercising, (...) for singing and for*

<sup>1</sup> in *El públic i el domèstic en l'Arquitectura escolar*, in "Mostra d'Arquitectura escolar". Ignasi de Solà-Morales was an architect and a philosopher. In addition to his professional works, he was professor of Architectural Composition at ETSAB and a scholar on Catalan architecture.

<sup>2</sup> in "Mostra d'arquitectura escolar", Generalitat de Catalunya, 1986

<sup>3</sup> David Mackay, *Funcionalisme?*, in "Mostra d'arquitectura escolar", Generalitat de Catalunya, 1986

<sup>4</sup> 1982: Plans d'Instal·lacions Esportives Escolars; 1987: A l'escola més esport que mai

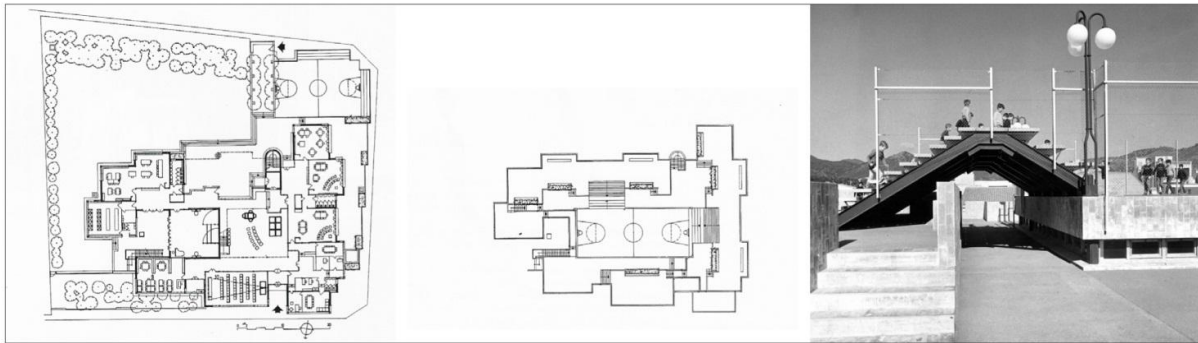
<sup>5</sup> several schools, mostly private, are part of this group that follow a renewed pedagogical movement.

<sup>6</sup> MBM arquitectes was founded in 1951 by Josep Martorell and Oriol Bohigas. In 1962 David Mackay was included.

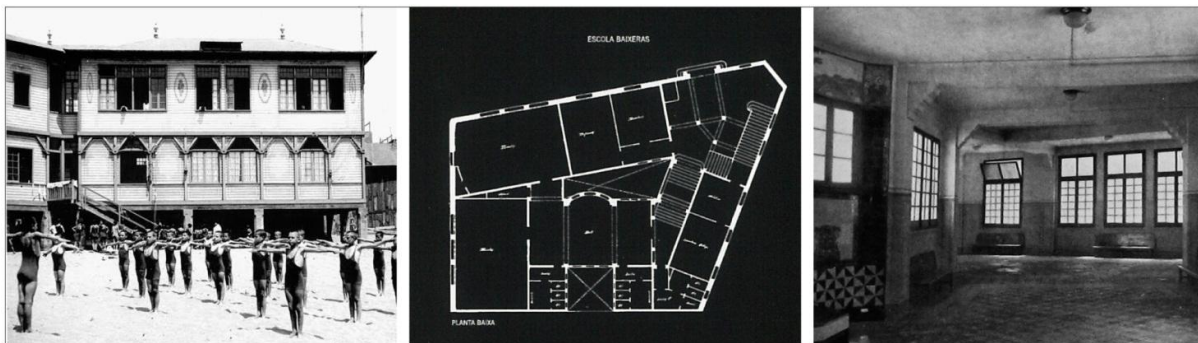
<sup>7</sup> This building refers to the pedagogical direction of Ramon Fuster i Rabés (1916-1976) author of *L'educació, problema social* (1965)

<sup>8</sup> *Les construccions escolars de Barcelona* is a book that the Comisión de Cultura de la ciudad edited in 1922, as a summary of studies, projects and other examples to settle the problem of the dimension and the obsolescence of schools in Barcelona.

music»<sup>1</sup> and the Escola de Mar «in which the ecological rhythms - and their sports derivations - were extolled as pedagogical bases»<sup>2</sup>.



**Figure 4:** Barcelona, Escola Sant Jordi, MBM arquitectes, 1969



**Figure 5:** Barcelona, Escola de Mar, Josep Goday, 1922; Barcelona, Escola Baixeras, Josep Goday, 1917

These backgrounds provide some design ideas that are addressed and developed by architects during the 1970s and 1990s. The works of Jaume Bach and Gabriel Mora<sup>3</sup> offer an interesting view on this subject.

In the Alzina School (Figure 6,a), located in the Sant Andreu district in Barcelona, the architects organize the block in three areas: one is dedicated to outdoor recreation; the building of the primary school that is shaped like a three-story parallelepiped volume and brings to the cover two outdoor playing fields; the secondary school building, taller than the first and volumetrically autonomous compared to this, of a trapezoidal shape to connect the first building with the back street. The patio with the accesses to the schools is among this two buildings.

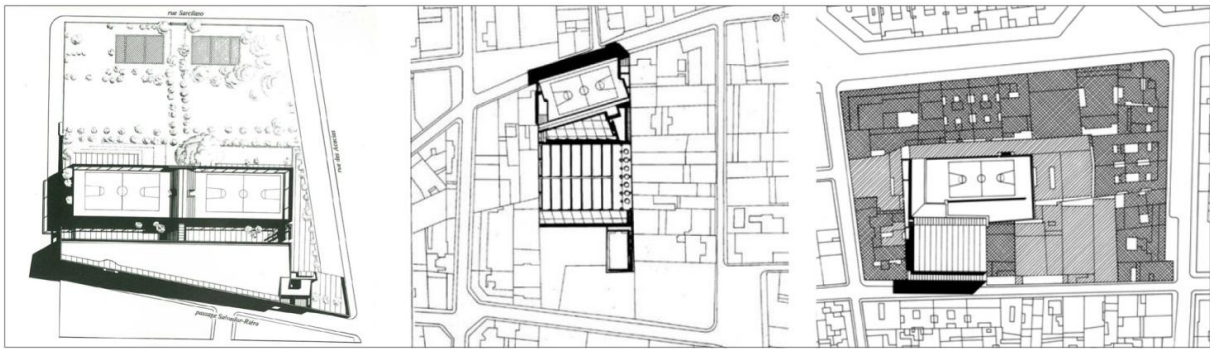
<sup>1</sup> Josep Goday, *Rèplica documentada de l'Arquitecte Josep Goday i Casals als comentaris crítics inserits al número 9 de la revista AC*, in 'Arquitectura i urbanisme', n. 4, 1933

<sup>2</sup> Oriol Bohigas, *La arquitectura deportiva en Catalunya*, in *Barcelona. Arquitectura y ciudad. 1980-1992*, Gustavo Gili, Barcelona, 1990

<sup>3</sup> Both graduated from ETSAB during the 1960s. In 1976 they founded Bach-Mora arquitectos. Several publications are about their works. Among these: Collens, D. L., Sola-Morales, I., *Bach-Mora arquitectos*, Gustavo Gili, Barcelona 1996; Savi, V., *Bach-Mora*, Gustavo Gili, Barcelona 1987

The J. M. Jujol School (Figure6,b) rebuilds the edge of the building curtain and opens with a big arc to the Placeta de Sant Miquel. From here you can enter the back patio: the portico designed by J. M. Jujol that had hosted the Mañach laboratories and is recovered for student recreational activities and open the community after school time. Here again the school building roof provides additional equipment for the community hosting a open-air sports field.

Architects Bach-Mora again in the Gracia district faced with the development of a multi-sports building growing in height in a dense and consolidated urban context. (Figure6,c) The building rationally differentiates the functions: from minor to greater structural light, from minor to greater need for natural light, from major to lower turnout. Ignasi de la Sola Morales, referring to the work of these architects, speaks of an elegant eclecticism that formally defines a precise typological choice and an efficient functional organization.



**Figure 6:** a, Alzina School; b, J. M. Jujol School, 1987; c, Sports center Perril, 1989.  
All works by Bach-Mora arquitectes.

#### 4. CONCLUSIONS

This short review of projects shows how in the Catalan region the will to spread sport at different levels has been supported by a real investment in the construction of sports equipment. These buildings are not for the agonistic competitions, for the practice of high-level sport such as the facilities of Barcelona '92, but they are designed to provide a service to those who want to practice sports every day. Till now there is no literature that offers a systematic study of these buildings. This first study has shown how even these "minor" structures respond to settlements model and show clarity in the architectural composition of project elements. These projects can still provide useful elements for the design of sports facilities within the consolidated urban fabric of our cities.

#### References

1. Porro N., 2001, *Lineamenti di sociologia dello sport*, Carocci, Roma
2. Rail G., 1998, *Sport and Postmodern Times*, State University of New York Press, Albany
3. Inglehart, R., 1996, *Modernization and Postmodernization. Cultural, Economic and Political change in 43 societies*, Princeton University Press, Princeton
4. de Knopp, P., 1998, *Sport, Turism: a State of the Art*, in "European Journal for Sport Management", vol. 5, 2, pp. 5-20

5. Santacana C., 2014, *Sport, society and collective identity in contemporary Catalonia*, in "Catalan historical review, n. 7
6. Josep Lluís Mateo, J. L., 1985, *Architecture and power*, in 'Quaderns d'arquitectura i urbanisme', n 164
7. Truñó, E., 1987, *La ciutat de les anelles. L'esport a la Barcelona Olímpica*, edicions 62, Barcelona
8. Bohigas, O., 1986, *Reconstrucción de Barcelona*, edicions 62, Barcelona
9. Paricio, I., 1992, *Más urbanos, más amplios, más fuertes. Los edificios del deporte*, in "A&V Monografías de Arquitectura y Vivienda", n. 33
10. AA.VV., 1988, *Vuit anys d'arquitectura per a l'esport. Catàleg de l'exposició*, Generalitat de Catalunya, Direcció General de l'Esport, Barcelona
11. AA.VV., 1986, *Mostra d'arquitectura escolar*, Generalitat de Catalunya, Departament d'Ensenyament, Barcelona



# Author Index

## A

Aboutorabi M., 1191  
 Aktaş M., 953  
 Al Gammal M., 773  
 Alenius M., 987  
 Alexandrakis G., 1570  
 Alici A., 1326  
 Alistratovaite-Kurtinaitiene I., 1645  
 Alonso Albarracín A., 1656  
 Altafini D., 2001  
 Altanlar A., 411  
 Alves F., 1605  
 Anastasiadis D., 299  
 Anastasiadou K., 1968  
 Anastasiou E., 2012, 2098  
 Anastasopoulos N., 640  
 Antocheviz F., 965  
 Apostolopoulou N., 1765  
 Aprile M., 25  
 Arsego C., 965  
 Asiliskender B., 1775  
 Asimakopoulou E., 1445  
 Asprogerakas E., 629  
 Athanasopoulos K., 658  
 Avgerinou Kolonia S., 2135  
 Avdelidi K., 194, 977  
 Azevedo M., 1957

## B

Babalis D., 291  
 Bajić T., 861  
 Bakalis C., 784  
 Bakogiannis E., 1008, 1147  
 Barbieri L., 1201  
 Baturayoğlu Yöney N., 1775  
 Belibani R., 34, 208, 805  
 Benetou A., 299  
 Berkmen H., 1412  
 Bianconi F., 94  
 Bigdeli E., 1455  
 Bishop I.D., 1209  
 Blathra S., 699

Boca S., 2109  
 Bocci E., 1797  
 Bonfante F., 1615  
 Bonoldi F., 1092  
 Bournas I., 987  
 Bouzeas S., 549  
 Braga A.C., 965, 2001, 2118  
 Braun F., 2118

## C

Calvano G., 1217  
 Camiz A., 455  
 Cantero Celada S., 699  
 Capanna A., 34, 208  
 Capelato R., 1696  
 Castagnaro A., 766  
 Cattani E., 1935  
 Cenci J., 725  
 Chaldezou S., 45  
 Charalampaki C., 1664  
 Charalampidi M., 998  
 Chatzi Rodopoulou T., 1786  
 Chazapis A., 629  
 Christidou C., 699  
 Christoforaki K., 2024  
 Christopoulou O., 515, 1869, 1923  
 Chtouris S., 784  
 Cialdea D., 62, 79  
 Cidre E., 3  
 Clemente M., 94, 103  
 Coccossis H., 1371  
 Colazza M., 260  
 Cornwall J., 1163, 1171  
 Corrêa M., 2036  
 Costopoulou T., 515  
 Crespi L., 1459

## D

D' Acci L., 1389  
 Daamen T.A., 1228  
 Damiano D.S., 114  
 Daskalakis V., 1858

---

### Proceedings

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 ISBN: 978-618-5271-12-1



De Ioris D., 1201  
de Rosa A.S., 1797  
de Smet I., 1242  
Delendi M.L., 1139  
Demiri K., 466  
Demiris N., 1157  
Desi-Louka C., 998  
Di Prete B., 1459  
Dijokiene D., 1808  
Dimitrakopoulos A., 1675  
Domblás U., 1471  
Dryjanska L., 1797  
Dubois M.C., 987  
Duc V.N., 1326

## E

Economou M., 1157  
Eguchi K., 1835  
Elnokaly A., 1253, 1819  
Elseragy A., 1253, 1819  
Elsinga M.G., 1432  
Enlin Z., 411  
Evdou M., 2067

## F

Falasca C.C., 794  
Faria H.M., 1264  
Farias A., 1685  
Farmaki P., 1981  
Ferrante A., 1935  
Ficcadenti F., 805  
Filippucci M., 94  
Fotopoulou A., 1935  
Fouseki S. Ch., 1008, 1147  
Frangedaki E., 1625  
Frangopoulos I., 2067

## G

Gaja i Díaz F., 1274  
Gavra E.G., 2080  
Gemenetzi G., 194, 813, 977, 1014  
Geropanta V., 1024  
Gerson V.L., 1092  
Geuna A., 893  
Giampino A., 2089  
Giannouli I., 699  
Gigante A., 794  
Gkegkas T., 1981

Gkioufi K., 2080  
Gkoumopoulou G., 629  
Gonçalves A., 1685  
Gortsos K., 194, 977  
Goulas A., 1287  
Gouloumis S.M., 549  
Grafakos S., 1389  
Grigoriadou M., 321  
Gritti A., 825  
Guerreiro R., 1315  
Gugerell K., 699  
Gülersoy N.Z., 927, 1885  
Güneş M., 1947

## H

Habibi S., 1032  
Hadjichristou Y., 380  
Hatton W., 1495  
Havrali A., 1481  
Hofstad H., 1294

## I

Ioannatou E., 299  
Ioannou O., 579  
Ippolito A.M., 131  
Ishimoto T., 1835  
Izzo F., 766

## K

Kalkan Açikkapi D., 411  
Kalnis G., 1042  
Kalymniou A., 1051  
Kamontou E., 1858  
Kamperi E., 1157  
Karagianni A., 1024  
Karanikolas N., 2067  
Kargül O., 927  
Karvelas D., 1008, 1147  
Katsavounidou G., 734  
Katsimpoulas V., 1858  
Kavvada I., 1858  
Kazantzi G., 2067  
Kershaw C., 1163  
Kiakou A., 1504  
Kilia M., 1858  
Kiourti M., 649  
Kitsonas M., 1157  
Klabatsea R., 501

- Konidi A., 299  
 Konstantinidou E., 1858  
 Kostagianni M., 1858  
 Koumpouli A., 1858  
 Kourouni I., 1858  
 Kourouvani M., 1664  
 Koussoulos G., 299  
 Koutsomarkos N., 699  
 Kozminska U., 249  
 Kronenberger B., 268  
 Kuboshima Y., 1060  
 Kuzey G., 927  
 Kyriazi I., 1008, 1147  
 Kyvelou-Chiotini S., 489
- L**  
 La Delfa G., 893  
 Laplume D., 1242  
 Larkham P., 1338  
 Leardini P., 1549  
 Lehmann K., 219  
 Leonhart Petersen K., 699  
 Liapi K.A., 1051  
 Lim J., 1171  
 Linaki E., 333  
 Litsardou D., 501  
 Litserinou E., 1401  
 Lo Piccolo F., 2089  
 Lopes B., 1315  
 Lu X., 1071  
 Lundgren M., 987
- M**  
 Magouliotis N., 1847  
 Maistrou E., 299, 311, 1858  
 Makedonopoulou C., 1516  
 Makhoul Vassiliou R., 1083  
 Malkakis V., 299  
 Manca A., 1528  
 Mangialardi G., 1217  
 Manika K., 2098  
 Manika S., 2012, 2098  
 Manisa K., 422  
 Maravelia E., 1858  
 Marinero Peral A.M., 699  
 Marino M., 145  
 Marques B., 1163, 1171, 1495, 1540  
 Martinelli N., 1217
- Marzulo E., 1696  
 Massou E., 194, 977  
 Mayer-Wydra M., 837  
 McIntosh J., 1163, 1171, 1495, 1540  
 McKone M., 1540  
 Mentekidou A.D., 539  
 Mocci S., 684  
 Monioudi-Gavala D., 1754  
 Montella I., 850  
 Moore K., 1338  
 Moretti K., 373  
 Moulara S., 1704  
 Moulis A., 1549  
 Mourati V., 1014  
 Mpartzis D., 1858  
 Mrdjenović T., 447
- N**  
 Nafa H., 590  
 Niavis S., 1371  
 Nikas G., 299  
 Nikolaou D., 1664  
 Nikolić T., 861  
 Nikologianni A., 1338  
 Nohara T., 1723  
 Ntafa E., 1347  
 Ntampiza K., 1716  
 Nyka L., 872
- O**  
 Oc T., 3  
 Okamura Y., 1723, 1835  
 Özbay Kınacı M., 1885  
 Özer Y.S., 433  
 Ozgun K., 1549
- P**  
 Paez E., 260  
 Panou M., 1182  
 Panzenhagen A.F., 1092  
 Papadopoulos T., 1228  
 Papafotiou M., 1157  
 Papageorgiou C., 1157  
 Papageorgiou M., 515, 813  
 Papagiannakis A., 1357  
 Papailiou N., 1858  
 Papaioannou A., 699  
 Paparsenou Z., 345

Papatheochari T., 1371  
Papavasileiou M., 399, 568  
Pappa M., 1287  
Paraskevopoulou A., 1157, 1182  
Parthenios P., 1024  
Pasquali M., 694  
Pateraki D., 1357  
Pateraki M., 1858  
Petras T., 599  
Petrella B., 882  
Petrić J., 861  
Petridou V., 1051  
Petropoulou C., 1481  
Pezzetti L.A., 236, 1071  
Pili S., 164  
Pillen S., 1903  
Pineschi P., 260  
Pitoglou F., 2045  
Plastina M., 230  
Polychronopoulos D., 321  
Pozoukidou G., 333  
Protopapa V., 1008

## Q

Qian Q.K., 1432  
Quercio N., 62

## R

Ramirez Aranda N.E., 1389  
Rampavila M., 2149  
Rato V., 1605  
Rebaglio A., 1459  
Reis A.T., 965, 1092  
Rempis N., 1562, 1570  
Ristuccia M.S., 260  
Rodi A., 1765  
Rodrigues J., 1913  
Rodriguez-Ramirez E., 1171  
Röe B., 1581  
Rynska E.D., 249

## S

Sabbagh M., 1819  
Sadri S., 1730  
Saeed M., 590  
Sah B., 1730  
Sakantamis K., 476  
Sakarya A., 953

Salaris C., 1528  
Salemik K., 699  
Salvati L., 94, 164  
Sanna C., 260  
Sarri S., 1741  
Sas-Bojarska A., 1591  
Scheerlinck K., 1903  
Sciarrone C., 694  
Secchi R., 260  
Seçmen S., 927, 1103  
Selevista M., 356  
Semprini G., 1935  
Sepe M., 181  
Serraos K., 629, 1420  
Setti G., 825  
Shakouri N., 1947  
Siddi C., 673  
Sidiropoulou T., 1481  
Silva M.L., 2036  
Silveira I., 1913  
Skafida E., 1633  
Skalidi F., 1382  
Song Y., 711  
Sotiropoulou K., 1008  
Spanogianni E., 526  
Spanos V.D., 1869, 1879  
Stamatopoulou A., 606  
Stenou M., 2057  
Stivali C., 156  
Stouten P., 1116  
Stylianidis E., 1981  
Suraci N., 893  
Swiny A., 380  
Szczepański J., 872

## T

Tanaka A., 1723  
Tapkı S., 901  
Tasopoulou A., 699  
Tenorio G., 268  
Terkenli T.S., 560  
Theleritis C., 1157  
Theodora Y., 45, 526  
Theodosiou G., 1287  
Thomas G., 1060  
Timmeren A., 711  
Todaro V., 2089  
Tofiluk A., 249

- Tombolini I., 164  
Tonelli C., 850  
Trocchianesi R., 1459  
Troncone S.G., 278  
Tsakou D., 1382  
Tsarouchi A., 1127  
Tsatsou A., 1389  
Tsilimigkas G., 1562  
Tsoka S., 1401  
Tsoumalakos S., 1923  
Tuncer T., 2128  
Türkoğlu H., 1103  
Tursi A., 1217  
Tzortzi K., 1754
- V**  
Vains C., 912  
Van Daele E., 1903  
Varvatou K., 476  
Vasila M., 1858  
Vasileiou E., 1858  
Vassi A., 658  
Vedeld T., 1294  
Veisz A., 172  
Venetsianou O., 618  
Vete A., 1808  
Visscher H. J., 1432
- Vitopoulou A., 194, 977  
Vlastou F., 194, 658, 977  
Vougiass S., 1968  
Voulelis P., 629, 1420  
Vyzantiadou M.M., 356
- W**  
Wandl A., 711
- X**  
Xanthopoulou X., 299
- Y**  
Yeğenağa O.H., 433  
Yenias K.-O., 392  
Yerliyurt B., 422  
Yiannakou A., 1357  
Yiannoudes S., 998
- Z**  
Zalloom B., 1191  
Zampieri F., 965, 2001  
Zhuang T., 1432  
Zinowiec-Cieplik K., 249  
Zippelius E., 939  
Zomas A., 399, 568  
Zuidema C., 699



# Subject Index

## A

Abdullah Gül University Sumer Campus, 1775  
 absurd, 392  
 access, 556  
 accessibility as socio-economic value for waterscapes, 1903  
 activism, 1998  
 actor analysis, 1432  
 actual residence, 1014  
 adaptation strategy, 1923  
 add-ons, 1935  
 adoption of a public space, 1528  
 Aegean, 1847  
 Aegean open sea, 568  
 aesthetic evaluations, 1092  
 Afthereta-unauthorized, 1581  
 agro-forest systems, 164  
 air corridors, 1455  
 alternative tourism, 422  
 America's Cup, 549  
 amphibian aircraft, 549  
 analytics, 579  
 anthropology, 649  
 archaeological remains, 466  
 architectural education, 321  
 architectural heritage, 356  
 architectural identity, 1819  
 architectural lighting, 1633  
 architectural overwriting, 236  
 architectural projections, 618  
 architectural technology, 1032  
 architecture, 649, 1605, 1615, 1847  
 arrangement and compensation acts due to urban layout, 1981  
 artistic against-intervention, 1696  
 Aswan, 1253  
 Athens, 784  
 attractors, 455  
 Australian cities, 1209  
 autobiography, 1675

## B

balkans, 2080  
 barren lands, 1455  
 Belgrade, 861  
 borders, 1459  
 Bosphorus, 411  
 bottom up, 373  
 bottom-up participation, 1528  
 boundaries, 1083  
 Brasilia, 268  
 bridge, 1591  
 brownfield site, 725  
 brownfield, 208  
 buffer zone, 380  
 building design, 740  
 building information modeling, 172  
 built environment, 1032  
 built heritage management, 773  
 built heritage, 345

## C

carrying capacity, 1420  
 CartoDb visual program, 590  
 case study, 1051  
 Catalan region, 278  
 cement canals, 1455  
 central Athens, 194  
 central part of the city, 1645  
 changes in local urban space, 2036  
 children with disabilities, 1730  
 Cihangir neighborhood, 1900  
 cinematic city, 1445  
 citizen and governance, 684  
 citizen science, 156  
 city, 219, 1591, 1730  
 city branding, 1879  
 city brochures, 1797  
 city center development, 1819  
 city formations, 2024  
 city making, 673  
 city planning, 1147  
 city planning, 526  
 civil disobedience, 1127

civil society, 629  
climate adaptation, 1338  
climate change, 452, 1201, 1923  
climate change and landscape resilience, 1903  
climate transformation, 1294  
coastal area, 1562, 1570  
coastal city, 965  
coastal landscape, 62  
coastal urban space, 526  
coastal urbanization, 2135  
coastal zone, 515  
co-creational leadership, 1294  
co-existence, 998  
co-habitation, 476  
collaborative design of homes, 476  
collaborative processes, 1480  
collective design, 476  
collective memories, 1459  
collective self-build, 1528  
commons, 156, 1625  
commons standards, 1625  
commonwealth, 1685  
communities, 805  
compact city, 1935  
compact growth, 164  
comparative approach, 1481  
complexity, 1605  
concepts-terms in urban conservation, 1765  
conflict, 590  
connectivity, 579, 1060  
conservation, 927  
contemporary architecture, 766  
contemporary public spaces, 1696  
cool materials, 1401  
Corinthiakos gulf, 515  
craftsmen, 433  
creative economy, 1858  
creativity, 1741  
criteria of reasonable compactness, 1242  
cultural, 927  
cultural heritage, 321, 345, 422, 1869  
cultural identity, 2080  
cultural impacts, 556  
cultural landscape, 1495  
cultural tourism, 411  
culture, 1287  
culture's preservation; seasonality, 2056

culture-led approaches, 1071  
cultures of participation, 640  
Curitiba-Brazil, 1264  
Cyclades Archipelago, 2045  
cycle network, 1008

## D

data contextualization, 579  
data visualization, 599  
daylight factor, 987  
daylighting, 987  
decision making process, 1432  
democratization of planning, 629  
densification, 987, 1242, 1935  
design, 766, 1163  
design strategies, 1024  
design studio course, 321  
desire of place, 556  
Deskati, 1879  
development, 766  
development corridors, 2001  
development projects, 1570  
development strategy, 345  
diffusion model, 837  
digital commons, 1625  
digital survey, 119  
digital technologies, 1171  
digitally expanded cinema, 618  
disability, 1540  
dispersed urbanization, 164  
diversity, 219, 939  
domestic, 1656  
dwellers appropriation of space, 2036

## E

East-West, 1516  
eco-cities, 1253  
eco-landscape approach, 1481  
economic crisis, 2098  
economic growth, 1287  
economic reinforcement, 2045  
economic sustainability, 1060  
ecosystem services, 156, 1139  
ecosystem-based management, 489  
education, 1217  
eHealth, 1171  
elderly, 1163, 1171  
emergency, 1201

- emotion, 684  
 employed by economic activity, 2012  
 enhance the quality, 1455  
 Envimet, 1401  
 environment, 1455, 1947  
 environmental impact assessment, 1591  
 environmental parameters, 1024  
 environmental planning, 1913  
 environmental policy, 1347  
 environmental tools, 1347  
 equipment, 278  
 Ermoupolis, 345  
 escapism, 2057  
 essential housing models, 850  
 ethnic groups, 872  
 ethnicities, 939  
 Europe, 1645  
 European heritage days, 1723  
 European Union, 734  
 evaluation, 590  
 expandable housing, 230  
 expanded cinema, 618  
 experimentation, 694
- F**
- family, 649  
 feedback systems, 1171  
 feminism, 1656  
 feral cities, 380  
 first-time visitors, 1797  
 fishing boat harbor, 568  
 fitness equipment, 1163  
 flexible, 373  
 flexible models to contrast marginalization, 260  
 flood management, 1139  
 flood risk, 1389  
 form, 1127  
 formal, 373  
 fragmentary archaeological sites, 466  
 fringes, 1504  
 functional change, 927
- G**
- game, 1675  
 gasworks, 1786  
 Gdańsk, 872  
 gemeinschaft/gessellschaft, 640  
 gentrification, 1116, 1471, 1885  
 gentrification projects, 433  
 geodatabase, 684  
 geographical variables, 670  
 geology, 1879  
 German cities, 629  
 GIS, 1201  
 GIS mapping, 1549  
 globalisation, 156, 1191, 1471, 1696  
 Greater Athens, 977  
 Greece, 515, 536, 813, 1228  
 Greek cities, 734  
 Greek landscape, 1516  
 green areas, 208, 249  
 green categories, 34  
 green corridors and public spaces, 260  
 green guide, 34  
 green infrastructure, 94, 103  
 green infrastructure benefits, 1389  
 green network, 1347  
 green pathways, 79  
 green/blue corridors, 1347  
 groundwater, 1455
- H**
- hacktivism, 1716  
 haitian immigrants, 2118  
 Hamburg, 229  
 health, 1163  
 health planning – methods, 1147  
 healthy cities, 1147  
 hedonic pricing model, 1389  
 Heraklion, 1562, 1570  
 heritage, 893  
 heritage buildings, 1819  
 heritage designation and management, 356  
 heritage urban landscape, 236  
 high street, 1819  
 higher education, 2128  
 historic environment, 291  
 historic garden, 119  
 historic memory, 1083  
 historic settlement, 794  
 historical center, 1071, 1808  
 historical city center, 25  
 holistic energy planning, 699  
 hospitality, 825  
 housing, 805



housing emergency, 2089  
housing market, 2128  
housing policies, 813, 2089  
housing projects in Rio de Janeiro, 2036  
housing rehabilitation, 813  
human behavior, 1157, 1664  
human topographies, 380  
human urban environments, 1116

**I**

ideal residence, 1014  
identity, 556, 765, 893, 902, 1326, 1459, 1471  
image, 2080  
immigrants, 794  
impairment, 1540  
improving urban environment, 299  
inclusive design, 1540  
inclusive playground, 1730  
incremental housing strategies, 230  
independent living, 1060  
indigenous knowledge, 1495  
industrial cities, 1147  
industrial heritage, 432, 1741, 1786  
infill architecture, 466  
informal, 373, 1581  
informal actions, 1528  
informal cities, 850  
informal settlements, 825  
informality, 392, 399  
inner city regenerations, 1071  
institutional/participatory planning, 629  
insular, 556  
intangible cultural heritage, 1741  
intangible heritage, 1858  
integrated and objective compactness, 1242  
integrated coastal zone management, 1371, 2135  
integrated urban & transport planning, 1357  
interactive and digital media, 618  
interactivity, 579  
interconnection, 1716  
intercultural city, 882  
intercultural potential, 1459  
interdisciplinary, 1605  
interpersonal communication, 1797  
intersensoriality, 599, 606  
inventory, 987

Itatiaia county, 1913  
Izmir, 1481

**J**

Japan, 1060  
Jews, 2067  
journey, 1516

**K**

Kayseri, 1775  
Kuzguncuk, 927

**L**

Lajeado / RS, 2118  
land use, 1562  
land use changes, 194  
land values, 1389  
landscape, 132, 1591, 1947  
landscape architecture, 1163, 1540  
landscape conservation, 1835  
landscape design, 103, 1182, 1338  
landscape identity, 684  
landscape metrics, 1562  
landscape planning, 2109  
landscape preservation, 79  
landscaping, 1455  
land-sea interaction, 489  
Larissa, 1504  
latent conflicts, 2089  
law, 1127  
learning community, 579  
learning patterns, 589  
legal system, 2135  
legislation, 114, 1382  
leisure, 278  
Lesvos, 560  
light management, 1633  
lighting applications, 1633  
limit, 1127  
listed buildings, 356  
liveability, 939  
Living Labs, 699  
local development, 1287  
local identity, 1858  
local media, 1716  
localisation, 1191  
Location Quotient (LQ), 2012  
long-term change, 673

low carbon, 1338  
 Lower Silesian Voivodeship, 837  
 Lüneburg, 219

**M**  
 management and planning of territory, 114  
 manufacture, 433  
 Maori, 1495  
 mapping, 606, 1445  
 marine spatial planning, 515  
 maritime governance, 489  
 Maritime Spatial Planning, 489, 2135  
 mature as ethics, 156  
 meaning, 392  
 Mediterranean, 1923  
 Mediterranean basin, 164  
 medium sized cities, 1371  
 memory, 466  
 memory policies, 2067  
 mending the suburbs, 208  
 mental healthcare facilities, 1157  
 mental maps, 998, 1741  
 Metropolis, 1455  
 Metropolitan areas, 1923  
 microclimate simulation, 1401  
 migrant, 784, 882  
 migrants' routes, 825  
 migration, 219, 805, 872, 893, 902, 912, 2109  
 military architecture; landscape, 1326  
 minimum requirement, 850  
 minor urbanity, 34  
 mobility, 1913  
 models, 805  
 modernism, 1847  
 monumental buildings, 345  
 morphogenesis, 784  
 morphological transformations, 965  
 morphology, 1242, 1645  
 mountainous settlement, 1858  
 movement of people and vehicles, 965  
 multiculturalism, 766, 825  
 multi-family housing, 987  
 multi-household, 1060  
 multinational, 998  
 multiscale identity, 684  
 multitude, 1685  
 museum space, 1754

**N**

natural heritage, 501  
 natural resources, 114  
 natural structure, 1412  
 nature as method, 156  
 nearly zero energy, 1935  
 need, 392  
 neighbourhood, 998  
 neoliberal capitalism, 1685  
 network, 568  
 network, 1217, 1716  
 new technology, 1615  
 New Zealand, 1495  
 Nicopolis, 1869  
 non-planning, 1581  
 northeastern Aegean, 539  
 North-South, 1294  
 nuclear energy, 1412

**O**  
 observation tools, 1664  
 Oia, 1835  
 old barracks, 291  
 oleo tourism, 422  
 open green spaces, 45, 1008  
 Open House London, 1723  
 open space, 694  
 open street maps, 599  
 open-ended design, 1042  
 Opole Voivodeship, 837  
 other, 1516  
 overproduction, 1274

**P**  
 palm tree, 1516  
 Park Road, 1913  
 participation, 476, 673, 1371, 1581, 1869  
 participatory culture, 649  
 participatory decision making, 699  
 participatory planning, 45, 373, 526  
 patterns, 1042  
 pedestrians, 1264  
 perception of tourism, 411  
 PGIS, 684  
 physical landscape, 1209  
 place attachment, 902  
 place branding, 539, 1858  
 place identity, 1797  
 place memory, 1696

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planetary urbanization, 399  
planning, 658, 1581  
planning adaptive methodology, 850  
planning Green Infrastructure, 1947  
planning strategies, 1116  
playground equipment, 1171  
political and scientific discourse, 194  
pontine plain, 2109  
popular uprising presence, 1957  
population dynamics, 861  
port-city interface, 1228  
position, 1412  
post-modernism, 1847  
post-occupancy, 1605  
post-socialist city, 1645  
PPS, 1136  
preserving heritage, 299, 311  
prime city plan, 684  
prison-city, 1051  
privacy, 1060  
private and public, 1723  
proactive vs retroactive, 640  
process, 1042  
production of ethnicity, 2118  
productive landscapes, 399  
Profitopolis, 1642  
project, 208  
property price, 1504  
protection of the environment, 1420  
prototyping, 1042  
psychopathology, 1675  
public access, 1723  
public design, 45  
public dialogue, 45  
public good, 501  
public land, 501  
public open space, 25, 103, 965  
public participation, 658  
public space, 45, 94, 194, 268, 278, 752, 836, 998, 1103, 1459, 1664, 1716, 1730  
public spaces and buildings, 236  
publicness, 1103  
pupil participation, 1182

**Q**  
Q methodology, 1371  
quality of life, 181, 526  
questionnaire survey, 1182

**R**

real estate bubble, 1274  
real estate value, 1935  
real-time data, 1024  
rebuilding communities, 1253  
reception, 794  
reconstruction, 1083  
reconversion, 725  
recovery, 794  
recycle, 694  
rediscovery, 1103  
reduction of CO2 emissions, 740  
reduction of energy consumption, 740  
ree software, 1625  
refugee camp, 902  
refugee crisis, 560, 813  
refugees, 912  
regeneration, 62, 208  
regeneration strategies, 1228  
regional development, 699  
relational city, 606  
renewable energy sources, 1382  
renewable energy technologies, 740  
repellers, 455  
requalification, 805  
residential satisfaction, 1014  
residents, 1869  
resilience, 62, 447, 640, 850, 1389  
resilient city, 882, 912, 1201, 1253  
resource, 156  
resource characteristics, 1723  
restoration and adaptive reuse of industrial buildings, 1775  
reuse, 291  
revitalization, 1819  
Rio de Janeiro-Niterói connection, 1957  
river valleys, 1455  
riverbeds, 1455  
Rome, 164  
rural landscape, 2109

**S**

safeguard, 114  
sailing, 549  
Samos, 1382  
Santorini, 556, 1835  
school, 1615

- school planting, 1182  
 seacoast, 2057  
 seascape, 568  
 seascape network branding, 539  
 segregation, 939  
 self-construction, 694  
 sensory mapping, 599  
 Serbia, 861  
 sewer, 1455  
 shared housing, 1060  
 sharing, 694  
 short-term actions, 673  
 sidewalks, 1264  
 significant, 392  
 Şiřhane, 433  
 small town, 1808  
 smart city, 1008, 1024, 1032, 1968  
 smart street, 1968  
 social and human approach, 673  
 social and spatial effects, 977  
 social change, 927  
 social conflicts, 1957  
 social diversity, 1209  
 social exclusion, 1445  
 social housing, 230  
 social identifications, 194  
 social integration, 784  
 social methodologies, 640  
 social regeneration, 684  
 social representations, 1797  
 social space, 640  
 social structure, 784  
 social sustainability, 1060  
 social variables, 658  
 socientize, 156  
 socio-cartography, 2067  
 socio-cultural identity, 1191  
 socio-cultural sustainability, 1060  
 socio-economic crisis, 560  
 socio-economic mobility, 773  
 software in higher education, 1625  
 South-European countries, 2089  
 space syntax, 1315, 2118  
 spaces of the urban collective, 156  
 spatial analysis, 1315  
 spatial autocorrelation, 2012  
 spatial changes, 773  
 spatial configuration, 2001  
 spatial design, 1754  
 spatial division, 1083  
 spatial effects, 813  
 spatial governance, 45  
 spatial impact, 2001  
 spatial impacts of migration, 872  
 spatial planning systems, 1981  
 spatial planning, 501, 699, 1504, 1981  
 spatial quality, 1338  
 spatial statistics, 2012  
 sport even, 1287  
 sport-for-all, 278  
 square, 1645  
 strategic planning, 489  
 strategies, 447, 490  
 student lifestyle, 2128  
 student mobility, 2128  
 studentification, 2128  
 suburban development, 2057  
 suburbanization, 837  
 Sümerbank, 1775  
 supports, 1042  
 surface temperature, 1401  
 sustainability, 34, 114, 156, 181, 447, 711,  
     794, 977, 1217, 1294, 1325, 1326,  
     1338, 1389, 1412, 1947  
 sustainable, 1432  
 sustainable city development, 1008  
 sustainable design, 132  
 sustainable development, 311, 501, 1032  
 sustainable industrial cities, 1147  
 sustainable intelligence, 1968  
 sustainable masterplanning, 291  
 sustainable mobility, 1968  
 sustainable planning, 1968  
 sustainable regeneration of public spaces,  
     249  
 sustainable regeneration, 773  
 sustainable strategies, 1253  
 sustainable tourism, 422  
 sustainable transportation, 1008  
 sustainable urban development, 734, 1765  
 Syros Island, 333, 345  
 system, 1605  
 system approach, 447  
 systematic correlation, 658

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**T**
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tactical urbanism, 1685  
tag cloud, 684  
taxonomy, 1754  
Technopolis, 1786  
temporary urban spaces, 912  
temporary use, 893  
terminals, 555  
terrain vague, 1445  
territory-city, 399  
Tethys, 1879  
therapeutic garden design, 1157  
therapeutic landscapes, 1495  
therapy, 1675  
Thessaloniki, 207, 1481, 2067  
third place, 1516  
threats, 1591  
time-phases design, 145  
to rethink the existing city, 260  
top down, 373  
tourism, 560, 2045, 2057  
tourism development, 411, 1835  
tourism support, 411  
town squares, 1754  
townscape, 1808  
traditional local expertise, 1858  
traditional settlement, 333, 1835  
tramway, 1357  
transformation, 1786  
transgression, 1127  
transit oriented development, 1357  
transitory, 893  
transplantation, 1516  
transport accessibility, 1357  
transport crisis, 1957  
TripAdvisor, 1797  
Twentieth century, 2024

## U

universal design, 1730  
universities, 249  
university and city, 766, 1217  
urban, 1389  
urban adaptation, 1201  
urban and regional planning, 882  
urban area, 1947  
urban Atlas, 1562  
urban centers, 268  
urban change, 373

urban competitiveness, 526  
urban conservation, 1885  
urban culture, 1754  
urban design, 25, 103, 181, 321, 526, 953,  
977, 1014, 1092, 1116, 1139, 1664, 1675  
urban design assessment tools, 977  
urban design processes, 606  
urban design strategies, 1765  
urban development, 45, 526, 953, 1287  
urban ecology, 1549  
urban economics, 2001  
urban ecosystem, 172  
urban form, 164, 861, 939, 1326, 1357  
urban gardens, 94  
urban governance, 1294  
urban governance and planning, 1228  
urban green, 103  
urban green spaces, 1008  
urban happiness, 181  
urban health, 1147  
urban heritage, 773, 927, 1326, 1808  
urban historic neighbourhood, 1885  
urban history, 455  
urban hydrological cycle, 1549  
urban identity, 1191  
urban interfaces, 1092  
urban interiors, 912  
urban interpretative tools, 236  
urban intervention, 734, 1765  
urban justice, 1685  
urban landscape, 25, 172, 1471, 1481,  
1570, 1633  
urban layout planning, 1981  
urban legislation, 1913  
urban life, 1051, 1664  
urban lighting, 1633  
urban livability, 181  
urban marketing, 25  
urban metabolism indicator, 711  
urban metabolism set, 711  
urban morphology, 455, 1741  
urban nature, 34, 79, 103, 114, 132, 145  
urban nature management, 172  
urban palimpsest, 466  
urban pattern, 953  
urban planning, 333, 1008, 1315, 1347, 2109  
urban planning implementation acts, 1981  
urban policies, 433

urban politics, 953  
urban pressure, 515  
urban regeneration, 45, 94, 236, 2681071,  
1116, 1274, 1528  
urban regeneration policies, 2098  
urban region, 861  
urban reintegration, 1051  
urban renewal, 1432  
urban requalification, 1696  
urban resilience, 145, 725, 740  
urban rivers, 1455  
urban safety, 882  
urban screens, 618  
urban shape, 1083  
urban shrinkage, 2098  
urban space, 599, 953, 1103, 1264  
urban sprawl, 1504  
urban structure, 872  
urban sustainability, 977, 1264  
urban texture, 1455  
urban thermal, 1401  
urban tissue continuity, 1051  
urban transformation, 1191, 2024  
urban transitions, 1445  
urban waterfronts, 299, 311, 1103  
urban wildlife and ecology, 380  
urbanism, 1656  
urbanity, 268

user-driven methods, 1024  
ustainable development, 1420

## V

vacant city, 1274  
vacation home, 2057  
vegetal architecture, 119  
vernacular, 1847  
VGI and open data, 1201  
villa Celimontana, 119  
visibility analysis, 1382  
visual identity, 1808  
visual impact, 1382

## W

walled cities, 1071  
waterfront, 321, 1371  
waterfront development, 1228  
waterfront urban space, 291  
wellbeing, 1163  
Westergasfabriek, 1786  
wheelchair athletes, 1540  
wilderness, 1540  
WSUD, 1549

## Y

YouTube, 1656



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