Architecture schools are fundamental depositories of knowledge and abilities, which have contributed productively for a long time to the growth of studies on architecture and the city.

The aim of this book is to share the results of research work carried out under the patronage of EAAE and ARCC in the main European and American architecture schools on the issue of the city and its recent transformations. Through the comparison of different points of view, the goal is to highlight the need for a broad and open discussion, appropriate to the vastness and complexity of the problems faced.

The well known sentence by Leon Battista Alberti, “The house is like a small city and the city is like a large house”, is a brief indication of the subjects of the volume: the widespread phenomena of urbanization of large parts of the world, the problems of so-called shrinking cities and the severity of the effects of climate change and energy issue. Architectural and urban contents are also main themes in EU policy where the crucial role of Architecture has been stressed in many documents concerning the development of European cities.

These arguments are developed in a thematic interweaving that goes from architecture and city’s analytical and design techniques to those connected with organization, construction, security, planning, conservation and practice of a profession whose role has taken on ever greater responsibility within the human destiny.
Cities in Transformation
Research & Design
Ideas, Methods, Techniques, Tools, Case Studies

edited by
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Adalberto Del Bo, Ilaria Valente

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# Table of Contents

## VOLUME ONE

23  Foreword  
*Stefano Francesco Musso*

25  Urban Transformations: Research and Design  
*Adalberto Del Bo*

32  Occupying space and re-ordering place: Looking forward and backward in 21st century Lahore  
*Masood A. Khan*

42  Teaching Architecture. The Troubled School  
*Daniele Vitale*

## PART ONE  
NEW SCENARIOS OF THE CITY AND DWELLING

55  Thinking the City  
*Martina Landsberger*

1. **THEORY AND TOOLS FOR DESIGN**

61  In Search of a *Modus Operandi* for a Specific Urban Architecture. A Critical Approach to the Collective Amnesia of Urban Design  
*Nicolai Bo Andersen*

69  What is the Role of Architecture in the Contemporary City? Structure and Form of the Design of the City. The Case of Milan  
*Pellegrino Bonaretti*

78  The Transformation of Cities  
*Emilio Corsaro, Raffaele Mennella*

85  Redefining Modern Housing Settlements. The Hypothesis of "Adequate Discontinuity"  
*Francesco Costanzo*

92  Somewhere / Nowhere  
*Carlo Gandolfi*

100  Landing Areas  
*Alessandro Isastia*
109  The Elemental Unit of the City
   Raffaella Neri

116  Picturesque Tools in the Idea of Modernity. Learning from John Soane
   Laura Anna Pezzetti

126  Revealing the Urban Plan. The Configurational Analysis
    as a Support for the Evaluation of Urban Plans and Projects
   Valerio Cutini, Giovanni Rabino

133  Places in Transformation.
    Designing the Urban Identity Reinterpreting the New Needs
   Marichela Sepe

142  Do Public Housing Companies Design our Cities like Large Houses
    and our Houses like Small Cities?
   Karel Vandenhende

2. TYPOLOGY

149  Understanding Privacy in Domestic Space:
    A Study of Transformation of Urban Houses in the Context of Dhaka
   Catherine Daisy Gomes, Farida Nilufar

158  The Convivial Housing Modus for “Singletown”
   Sylvain De Bleeckere, Sebastiaan Gerards

166  Transferring Single-family Home Qualities to Multi-family Housing
   Amelie Mayer, Ulrike Sturm, Peter Schwehr

175  Compose the Siedlung: The Project Of Niddatal (1925-1930)
    vs The Project Of Riedberg (1997-2017) in Frankfurt
   Manlio Michieletto

183  Process Typology and Formative Processes of Middle Eastern Urban Open Spaces
   Giulia Annalinda Neglia

192  Authentic Communal Housing in America
   Marc Roehrle

3. ARCHITECTURE OF THE CITY: TOWN AND CITY PROJECTS

201  Challenging the Concept of “Informal” in Sub-Saharan African Cities.
    The Case of Maxaquene A, Maputo, Mozambique
   Jørgen Eskemose Andersen

211  Archi-objects of Desire in the Information Age and their Future Role
    in City Positioning. Medellin, Colombia as Case Study
   Juan Pablo Aschner Rosselli

219  Public Space in the Microcosmopolis.
    Two New Business Districts of Manchester and Salford
   Eamonn Canniffe

227  Delirious Tirana
   Isotta Cortesi

235  Spontaneous Public Space: Resource or Nonsense?
   Ester Dedé
Designing in the Historic Centers: Strategies and Tactics in the Transformation of Collective Open Spaces
*Michele Di Santis, Francesco Lenzini, Xianya Xu*

The Grammar of Public Space. Reclamation, Functional Restoration, Redesign and Urban Reorganisation of Lorenzo Berzieri Square in Salsomaggiore Terme (Parma)
*Emilio Faroldi*

Density. New frontier for Post-soviet Urbanism. Minsk Case Study
*Filippo Lambertucci*

Living Utopia - Leaving Utopia. Brussels: Modernist Urban Forms Evaluated against Pre-Existing Row Houses
*Gérald Ledent, Olivier Masson*

Process of Morphological Transformation and the Emerging Pattern of Built-Form along Gulshan Avenue in Dhaka
*Farida Nilufar, Nuzhat Zereen*

Milano: a New Dock on the Site of the Porta Genova Railway Station
*Giovanni Cislaghi, Marco Prusicki*

Contemporary Mutations in the Complexity of Bogotá
*Claudio Rossi*

The idea of Complementary Uses to the Residential in the City Growth Strategies
*Ana Ruiz*

“Soundscape” and the Identity of the Place. The Case Study of Kichijoji Station Area, Tokyo
*Pega Sanoamuang, Darko Radovic*

Space as a Place for Social Interaction: the Cases of Housing in Bangkok
*Sutida Sattayakorn*

Modern Moscow: from City Planning to City Improvement. Autobiography of the Place
*Yuriy Volchok*

A Hope for Athens
*Sotirios Zaroulas*

4. METHODS AND TECHNIQUES

A Different Approach: CastelloZINE. Tools and Methodology of Civil Journalism Applied to the Urban Context
*Barbara Cadeddu, Valeria Piazza, Patrizia Salis*

Mixing Algorithms in Urban Analysis and Transformation
*Mike Christenson*

Happiness in the City. Experimental Teaching and Research in the Methodological Design of the Collective Space of the City
*Roberto de Paolis, Marinella Ferrara, Danilo Morigi*

The City as an Organism
*Matteo Ieva*
Blocks, Schools and Books
Dirk Janssen, Katrijn Apostel

Building for Diversity: Residential Areas as a Socio-spatial Context for Diverse Neighbourhoods
Angelika Juppien, Alex Willener

Teaching as Research: Vomero, Storkterrein and Other Places
Pasquale Miano, Giorgia Aquilar

New Urban Conditions: Epistemological and Pedagogical Issues
Andrzej Piotrowski

Rione Luzzatti in Naples: Conforming Measure of an Intervention of Urban Redevelopment
Federica Visconti, Renato Capozzi

Athens in Crisis: Education on the Issue of Emergencies. Beyond Didacticism
Ariadni Vozani

PART TWO
CITIES BETWEEN HISTORY AND FUTURE

Learning from the Historic City
Michele Caja

1. RECONSTRUCTION AND URBAN RENEWAL

Astrakhan: Principles of Reconstruction of Historically-Composed Development and their Use for Planning of New Central Territories
Oleg I. Adamov

Potsdam and the Brandenburg Region: Monumentality as Principle for Urban and Territorial Construction
Ivan Brambilla

Between Heritage Conservation and Urban Renewal. A Case Study: Paris, from Haussmann to the Present Day
Alessio Cardaci, Antonella Versaci

Reconstructing the Cambel’s Yali at Bosporus
Francesco Collotti, Serena Acciai

The Fluidity of Scale and Time in Jože Plečnik’s Ljubljana
Jennifer Gaugler

The Paddington Terrace House: An Example of Incrementally Accommodating Change from the House to the City
Corey T. Griffin

Recomposition’s Paradoxes. A Research Case Study on a Concert-hall in Ferrara
Alessandro Massarente

Munich, Urban Development: Model and Form of the Modern City
Nicola Panzini

Urban Renewal in the Late Nineteenth Century. The Case of Via Dante in Milan
Pierfrancesco Sacerdoti
515 Duisburg 1945: *Stunde Null?*  
*Benedetta Stoppioni*

522 Westernization Effects on the Planning and Architectural Approaches in Historic Commercial Center of Kadikoy between Late 19th and Early 20th Centuries  
*Ege Uluca Tumer*

2. HERITAGE, CONSERVATION AND TRANSFORMATION

531 The Archaeology of Urban Change: 19th Century Jaffa  
*Yoav Arbel*

539 Libya of the Post-war Reconstruction. Recreation of a Tradition: the Jebal Nafousah and the Routes to Ghadames between the Artisan and Touristic Economy  
*Paola Cofano*

548 Dealing with Change in the World Heritage Site of Old Rauma  
*M. Anca Dumitrescu*

557 Archaeology and Architectural Design: Projects for Alexandria (Egypt) and Aria-Herat (Afghanistan)  
*Luisa Ferro*

566 Managing Transformations in Historic Urban Cores between Conserving and Developing. A Case Study  
*Mariacristina Giambruno, Raffaella Simonelli*

575 The Medina of Tripoli, Libya. The Future of an Urban Living Heritage and Cultural Landscape  
*Ludovico Micara*

584 Working Techniques and Restoration Methods for Plaster Decorations on Façades in New and Old Design  
*Søren Vadstrup*

3. REPRESENTATION AND URBAN IMAGE

591 The GIS *Forma Urbis Romae* Project: Creating a Layered History of Rome  
*Allan Ceen, James Tice*

600 Perspective, Visual Perception and Urban Planning  
*Sylvie Duvernoy*

608 Imperatives of Craft: Making in Beginning Design as it Prefigures Urban Response  
*James Eckler, Karl Wallick*

617 Mapping the Spatial Identity of a Location Relying on Methods from Visual Art  
*Yvonne Knevels, Oswald Devisch*

625 Culture as a Determinant of City Form. The Case of the Former Jewish District in Lodz  
*Małgorzata Hanzl*

635 Reviewing Design References with Diagrams  
*Guilherme Lassance*
4. CRITICAL REVISION, MEMORY, IDENTITY

645 Industrialisation of the Building of Post-War Residential Estates in Milan. Specific Features, Issues, Strategies for Conservation
Francesca Albani

654 Planning in the Gray Zone, Challenges and Opportunities: The Case of Independent Zoning Plans in East Jerusalem (work in progress)
Michal Braier

662 Forgotten Project: Plan de la Ribera, 1964-1972, Barcelona
Nadia Fava

671 The Antimodernist Polemic as Rhetorical Construct: Prince Charles and “populist realism”
Federico Ferrari

680 New Models for the Foundation Cities in Puglia and Basilicata
Graziella Fittipaldi, Francesco Scricco

689 Memory, Values and Destiny of Twentieth Century Inheritance
Giovanna Franco

697 Architecture. Essay On The City
Gaetano Fusco

707 Chinese Architectural Education in the Rapid Economic Development
Han Linfei

713 From Alberti to Team 10: Towards a Welfare Humanism
Nelson Mota, Gonçalo Canto Moniz, Mário Krüger

722 Managing Memory in City. Case-study of Complex of the Federal Secretariat for National Defense (Generalstab Building)
Milica Muminović, Vladimir Parežanin, Darko Radović

730 The Contemporary City in a Deceiving Search of Identity
Roberto Recalcati

738 Evolution of Moscow Housing Development
Stanislav A. Sadovsky

744 Identity and Transformation. The Designing of the Historical Urban Landscape
Fabrizio Toppetti
VOLUME TWO

773 Regaining Lost Time: Design and Architectural, Urban and Environmental Resources
   Ilaria Valente

781 City’s Architecture and Research by Design
   Ferran Sagarra Trias

788 Italian Architecture of the Twentieth Century. Issues and problems
   Franco Purini

PART THREE
STRATEGIES FOR SUSTAINABILITY

797 Sustainability Strategies (for Cities in Transformation)
   Marco Bovati

1. SUSTAINABLE URBAN AND LANDSCAPE DESIGN

811 Khedivial Cairo: An Evolved Metabolism
   Eman M. Abdel Sabour, Stephen Luoni

819 Setting Priorities: Sustainability, Environmental Health, and Embedded Value Judgments for the Urban Design Process
   Anirban Adhya, Philip D. Plowright

828 A Morpho-energetic Optimization Tool for a Low Energy and Density Reasoned City Area
   Laëtitia Arantes, Olivier Baverel, Daniel Quenard

836 Urban Acupuncture: Improving the Public Space between the Socialist Block of Flats and the Old City in Bucharest
   Cosmin Caciuc

844 Transformation of Urban Landscapes
   Antonia M.A. Chiesa

852 How Environmental and Energy Issues Shape the Cities: A Case-Study in Barcelona, Spain
   Giovanni Marco Chiri, Helena Coch Roura, Alessandra Curreli, Ilaria Giovagnorio

861 An Integrated Approach to Urban Transformation for Polycentric Development of Settlement Areas
   Calogero Montalbano

871 Concept - Ecological City
   Maxim Poleschuk

2. ARCHITECTURAL AND URBAN REGENERATION

879 Territories of Energy and Urban Shape
   Pepe Barbieri, Alberto Ulisse

887 Strategies for the Regeneration of Suburban Sprawl. Case Studies in Rome
   Alessandra De Cesaris
Sustainable Façade Technologies: High-rise Building Retrofitting
Kyoung-Hee Kim

Living the Compact City: the Case of San Salvario in Turin
Silvia Malcovati, Stefano Suriano

The Regeneration of Public Housing Neighbourhoods. The Example of Tor Bella Monaca in Rome
Domizia Mandolesi

Regenerating Public Residential Areas in the Modern City
Carlo Alessandro Manzo

Reinhabiting, the House, the Street and the City
Márdia Márta, Pere Puertes, Roger-Joan Sauquet, Anna Puigjaner

Continuity of Urban Culture. Challenges and Opportunities Facing Urban Conservation
Valeria Pracchi, Heba Elsayed

Chinese Puzzle: A Tangle of Space in Shanghai’s Shikumen Architecture
Peter Wong

3. ECOLOGICAL LIVING: FORMS, TYPOLOGIES, TECHNIQUES

Domestic Green Spaces in Contemporary Cities
Elisa Bernardi

Methodology for the Implementation of Solar Strategies in Architecture
Doris Ehrbar, Ulrike Sturm, Peter Schwehr

Groundscrapers. Vitalizing the Tradition of the Urban Low Rise, Mixed Hybrid Building
Susanne Komossa, Nicola Marzot, Roberto Cavallo

Unité 2.0: Housing in Time of Austerity
Luca Lanini

Urban Transformation, Energy Consumption and CO2 Emission
Monica Lavagna, Paco Mellià, Paolo Pileri, Viktoriya Sendyureva

Sober, Sustainable and Urban: Recent Housing Experiences
Marco Lucchini

The Rational Maintenance of Social Housing (with a Warlike Modesty)
Marina Montuori, Barbara Angi, Massimiliano Botti, Olivia Longo

Building Products Made from Recovered Paper and Cardboard: Applicability and First Conclusions
Rossana Paparella

Solar Control in the Architectural Composition
Stefano Perego

Vegetation, Architecture and Sustainability
Katia Perini

The Sufficient House: Housing Design for Suburban Bangkok Based on Sufficiency Economy Philosophy
Saithiwa Ramasoot
Plants: a Model for Design? Plant Plasticity, Mutation and Adaptability: Qualities Open to Interpretation
Patricia Ribault, Sara Lubtchansky, Patrick Nadeau

Form of the Settlement, Energy and Housing Typologies. Contemporary Research and Education in Architecture
Francesca Scotti

Advocating for Agility, Adaptability + Appropriateness: Innovations + Inspirations for an Environmental Design of the 21st Century
Brian R. Sinclair, Somayeh Mousazadeh, Ghazaleh Safarzadeh

4. METHODS AND TECHNIQUES: EDUCATION FOR SUSTAINABILITY

The Adaptive City
John Brennan

Education for Sustainable Architecture: Professional Competencies and Responsible Ethics
Bing Chen

To a “Integrated Multiscale Project” Design Method. Transecting Sections and Action Contracts
Roberta Ingaramo, Angioletta Voghera

Performance and Form: New Pedagogical Approaches to Designing the Building Envelope as an Adaptive Interface
Ulrike Passe, Robert Demel

PART FOUR
INFRA STRUCTURES, LAND AND LANDSCAPE

Structures of Picturesque
Giancarlo Floridi

1. LAND AND URBAN SHAPE

Schools as Catalysts for the Urban Environment
Ulrike Altenmüller-Lewis

Residential metropolization process and new forms of urban centralities
Priscilla Ananian

Stand-By Landscapes: Designing Residual Spaces for Urban Regeneration. “Small Green Ring” Landscape Promenade: An Experimental Case Study on Milano Navigli Areas
Anna Arioli

Historical Evolution of Urban Segregation: Mechanisms of Differentiation Through Space and Time
Nadia Charalambous

The Border as a Place of Experience
Andrea di Franco

Examining Material Flows for the Study of a Settlement. A Historical Perspective
Leila Marie Farah
Squares and Streets without Town. Settlement Patterns in Puglia's Landscape: the Borgo Segezia
Anna Bruna Menghini

Learning from Ksour. The Valleys of the Drâa and the Ziz in pre-Saharan Morocco
Carlo Moccia

The Waterfront Project for the Historic Centres: The Case of the Redevelopment of the Historic Port of Cala di Palermo
Sebastiano Provenzano, Giuseppe Pellitteri

Cities of Salt. Toward a New Analysis Method for a New Planning Strategy
Giuseppe Rociola

Activating Emptiness: Bricolage of Japanese urban context
Marja Sarvimäki

Notes for a Design for the 900 km Nile City
Pier Paolo Tamburelli

Copenhagen - Øresund - Malmö: city borders and construction of the landscape
Carlotta Torricelli

The Carbon-neutral Settlement of Broeset. Towards a new paradigm in urban planning?
Dag Kittang

2. INFRA STRUCTURES

The Next Generative Infrastructure for Detroit
Constance C. Bodurow

Urban Mobility Footprints
Fabio Casiroli

Regional Infrastructures
Sara Queen

Landscape as Infrastructure: Ideas for Urban transformation of Placa de les Glories as a New Public Node for Barcelona, Spain
Arunjyoti Hazarika

New Element of Settling (NER) as Search of Future City
Ilia G. Lezhava

Knowledge and Design for Assembled Urban Landscapes
Rejana Lucci

Stefano Sabatino

Infrastructure and the Just City
Maurizio Sabini

Identity and Landscape along the Way from Jaffa to Jerusalem
Alessandra Terenzi
1317 Railway Station between Architecture and City. Western Models, Chinese Cases and Urban Transformation
*Zhen Chen*

3. TERRITORY AND FORM

1327 Inventory, Assessment and Evaluation of Historic Resources in HemisFair Park for the New Master Plan
*William Dupont, Sedef Doganer, Saadet Beeson, Adriana Munoz, Laura Carrera*

1336 Defining the Metropolitan Central Park, a Special Item in the Contemporary Open-Space-System
*Joan Florit Femenias*

1344 Growing Cities, Growing Roofs: Vegetative Systems’ Response to Urban Runoff
*Elizabeth J. Grant, Shouib Ma’bdeh*

1352 War Ruins, Peace Landscapes, Metropolitan Nomadism. ["Natura Artificialis" and Urban Mobility | Olympiapark-München]
*Andreina Maahsen-Milan*

1360 Instrumental Restitching and Perceptual Rotation: Spatial Recalibration Strategies for Monumental Parks in Historic Cities
*Deborah A. Middleton*

1370 Landscapes of Survival: the OASIS System in the Contemporary Mediterranean City
*Veronica Salomone*

1378 Philadelphia Green Structures
*Kate Wingert-Playdon*

4. METHOD AND TECHNIQUES

1385 Cybertown: Another Façade of the Postindustrial City
*Leonard R. Bachman*

1394 Retooling Architectural Pedagogy: Community-based Design in Haiti
*Jim Lutz, John Comazzi*

*Alessandra Como*

1411 Archetypes in-formation. Strategies of Transition in Architecture and Urban Design
*Yannis Zavoleas, Panayotis Tournikiotis*
Reconstructing the Cambel’s Yali at Bosporus
Francesco Collotti, Serena Acciai
Università degli Studi di Firenze, Italy

Foreword. Istanbul and Sedad Hakki Eldem, the Past as Building Material

“Istanbul, the city where geography provokes history”, wrote Brodskij.
“Town that is built up upon herself “and that lives as she always has lived, not by substitution but by addition”. Town where the ancient is truly a source of design, “whose karma is in being a crossroads of civilization”, that Bridge that Pamuk too sees in his Istanbul.

In this port which is in reality a mosaic of ports, in this city made up of many cities that in the end are only one, there exist characteristics which distinguish the architecture: above all the constant presence of water, even as a horizon which runs through the constructed fabric, and then the legacy of the ancient city, that is the erosion of classicism as a principle of architecture.

Sedad Hakki Eldem, architect of Istanbul, who worked for and with Istanbul for all his long life, realized in the metropolis on the Bosporus his greatest architecture. Fragments of constructed city which are integrated as contributions of Modern into that genealogy of architectures that lead to the evolution of the city in time.

This research, and the here presented pilot-project, have their starting point in the PhD Research developed in our Doctorate School by Serena Acciai, focusing the case history of Sedad Hakki Eldem, architect of the turkish Modern.

Aristocratic architect, descendent of a wealthy Ottoman family, Eldem was educated between Munich and the Academy of Fine Arts of Istanbul and early in his career began to design the great architecture of the city, beginning with the Topkapi Palace. Eldem read his city as an Ottoman but also and above all through the surveys, drawings, and engravings of Western scholars.

Particularly important are Müller-Wiener, German archeologist who discovers by surveying all of Sultanahmet, thus bringing the past to life, and I. Melling, German architect who in the 19th century arrived in Istanbul for a brief stay and remained eighteen years to sketch views of the Bosporus.

Melling worked as Imperial Architect, not only engraving many detailed drawings of the Sultan’s palaces, Ottoman society, and representing some views...
PART TWO. CITIES BETWEEN HISTORY AND FUTURE

Constantinople and its environs, but also the architect who was committed to build pavillions, furniture and palaces on the Bosphorus shores for the Sultan’s sister.

On the surveys plans of the archaeologists Sedad Hakki Eldem traces his proposals or Istanbul.

Following the Melling’s engravings Eldem starts his research/survey/project of the Bosporus’ shores.

Eldem was intimately involved in the architectural and urban experience of the city and her memory. He worked for Istanbul through those elements which Aldo Rossi defined constitutive of the architecture of a city – monuments and houses – and today his works remain scattered throughout the city as exemplifications of the image of the epoch and society which Eldem wanted in a way to capture and make available to the masses.

The Experience of Ottoman House

Starting from the experience of Istanbul and extending the research to a human settlement at geographic scale, Eldem wrote about the Byzantine influence and wondered what contaminations and suggestions the Ottomans might have found before becoming Turks, seeking and investigating as always the typology of the Turkish House.

The Ottoman town is by him described as fragments of imaginations.

You could catch glimpses of the houses over their high garden walls, and discovering views of a courtyard through open gates. The inhabitants of these houses would generally ask you in, and show you higly-decorated rooms, or take you to sofa-halls, laid with solid beams scrubbed white as ivory over generations.

Eldem continually wonders about the work on the building type of the Turkish House. TURKISH HOUSE? A “Western construction”? An open question... as is the nature of the term “Turkish” employed by the Europeans to indicate the cultural and religious ethnicities of the heterogeneous population of the Ottoman Empire.

The typical Ottoman house has specific characteristics that give it its peculiar place in the universal history of home types. Its origins and its relationship to the house types of the neighboring areas make a fascinating case study for the understanding both of the cultural phenomena of the Ottoman universe and of the processes involved in making architecture in general, Ottoman or not.

The experience of architecture oscillates constantly between the generality of type and the specificity of site. We have to critic the concept of context and

mannered environmentalism. The traits of type and the constituents of the site should remain inseparable. Composed, in other words re-composed.

According to Maurice Cerasi the open question is that

the Ottoman house was a synchretic product of a multiethnic society from the seventeenth century onwards, with the imperial court acting as a powerful catalyst [...] the relationship of house type to urban structure and urban culture is obviously very important in Ottoman towns no less than in other cultures.⁸

The Ottoman house: a border wall defining a garden, the wall is so sized and shaped to resist against earthquake, the timber structure of the house, fragile and flexible at the same time, covers only a part of the garden: a light wooden-frame construction with brick or earth infill is set on the stone walls.

“The houses seemed to be set on retaining walls or on the ground, any sense of permanency was rare”: this is a concept of settlement connected to “the institutional and psychological context of Ottoman society”⁹.

A garden courtyard (more garden than courtyard) is the center of the family life.

“Organization and volume composition resembled the Far Eastern pavilion systems”.

Functional spaces are at the ground floor level or in outbuildings in the garden.

The upper floor is a cluster of square or rectangular rooms/oda, unmarked by functional specialization but defined by elements such sequence of windows, niches and walled cupboards, fireplace, symmetrical ceiling decoration with central focal point, perimeter seating.

The ottoman house is what in french language is called savoir vivre.

First of all it is a way of life, is a lifestyle, is a way for pleasant life.

*The Yali Architecture between East and West*

In the general and long–lasting experience of Istanbul as Byzantine and later – Ottoman town, the human settlement and the creation of a landscape along the shores of the Bosporus is a unique and extraordinary artifact.

The yali architecture (system of building and sequence of gardens, walls and terraces) is at the same time type and site specific principle of settlement on the Bosporus. The recent chaotic development of the channel shores is forgetting the ancient principles which ruled for centuries the Istanbul’s extension eastwards, creating a pleasure’s and representative space’s system (palaces, mansions, gardens, terraces) integrated to the pre-existing small villages.

The yali architecture in the Bosphorus is a settlement’s principle, continuing, organizing and in work setting an original greek byzantine landscape marked by small objects, water streaming downhill, systems of terraces probably erected by peasants.

⁸ Ibid.
⁹ Ibid.
PART TWO. CITIES BETWEEN HISTORY AND FUTURE

The yalı architecture, figure between Ottoman tradition and European architecture is a particularly experience in the controverse westernization of Istanbul.

The history of settlement along the shores of the Bosporus in the Ottoman period is rather exceptional in comparison with standard aspects of Ottoman urban culture. In the major centers of the Empire, the residential fabric was organized in rather introverted districts or mahalles, with limited architectural display of social status. Instead, the topography of the Bosporus would be exploited by local and foreign elites of the eighteenth century to construct a veritable showcase of social representation and urban rituals, generating something comparable to a broad boulevard in a baroque European city.10

The huge work on the yalıs proposed by Sedad Hakki Eldem consists not only in built examples but also in few important contributions of scientific literature, where he involves his student’s classes in reconstructing the often lost landscape of the Bosporus.

Sedad Hakki Eldem investigates the origins and the characteristics of the ancient and old buildings which might be read/reread in a modern light. Do the great buildings of the past remain in Istanbul as sorts of footprints in the successive design of the city? Does that manner of constructing the waterfront, the Emperors’ Palaces, remain in the history of the identity of the buildings on the Bosporus?

It is certain that with his endeavors (the systematic classification of the architecture of the Bosporus and the establishment of survey and design seminars for students of the Academy of Fine Arts of Istanbul, among others)11 and with his designs for the new yalı on the Bosporus, Eldem contributed in a decisive manner to the memory and the acknowledgement of the highly particular value of this architectural heritage.

In fact it is not a coincidence that the first representations of Turkish houses in European publications coincide with the blossoming of exoticism and the discovery of the different as a central point in the self-definition of the Enlightenment, and it was precisely the publication of the work of travelers and artists such as Allow and Bartlett and the already above mentioned Melling that dictated the first panoramic views of the yalı, those grand wood dwellings along the Bosporus.

That Eldem took as an initial source of inspiration for his work a copy of the Voyage pittoresque de Constantinople et des rives du Bosphore of Melling indicates the importance of Western representations in the formation of the concept of the Turkish House and the importance of intertextual references.

It all begins with the Amcazâde Hüseyin Yalısı, structure dating to 1689 which can be defined the archetype of this building\(^1\). The building which can now be seen on the Bosporus, near Anadoluhisari, is only a fragment of the original and elaborate plan of the summer estate of the Köprülü family, organized according to the usual disposition in selamik and haremlik, here however placed far apart from one another.

All that remains of this constellation of architectural elements is the building with a central plan which rotates about a fire while all around the divanhane, a great room made up of low seats placed under the windows that repeatedly open onto the sea, unfolds.

“All comes from the Orient” wrote Luciano Semerani [“and the sensual, magic, and illusionary essence of ancient architecture is hidden”]\(^13\), but in this building on the Bosporus all is still manifest; in fact it remains throughout the centuries as an incunabulum of Ottoman architectural art. From the archetype to the realization of a modern interpretation of these residences on the Bosporus – Eldem in the 60s finds himself with the opportunity to design new yalı on the Bosporus for that new, illuminated clientele, industrialists and businessmen who were the natural evolution of the Ottoman elite and who had renewed the practice of the dwellings on the water, that manner of living on the water’s edge treating the Bosporus almost as a “theater of life”, comparable in this to the Grand Canal of Venice.

Although these commissions engaged Eldem for individual buildings, at a certain point their number became so great that the context could no longer be confined to the site of each yalı; it inevitably became a more choral question, or rather the image of the skyline of the Bosporus through a reconstruction of fragments of the two banks wherein the yalı were the principal element.

**The Case History of Yali Cambel**

In the main stream of researches supported by the Department of History of the BU Bogaziçi University (Özyar, Girardelli), the Department of Architecture drawing/survey history design of the University of Florence (Colotti with Acciai) is developing the pilot project for the refurbishment of the garden at Halet in Arnavtkoi, on the European side of the Bosporus.

The most striking feature of the Cambel yalı is that it develops the original type of coastal settlement in its ambivalent, urban and rural dimension.

On the top, strawberry fields of the typical Bosporus sort cilek.

For similar estates, access to the shore was essential for both infrastructural and prestige reasons. Equally important was the inclusion in the property of a large portion of land, to be exploited for both social and productive, agricultural purposes.\(^14\)

Part of the reasearch is the survey of the garden, of the walls’s sequence and trying hypothesis about the water’s system flushing downhill. As in the

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\(^{14}\) P. Girardelli, *Landscape in context*, cit.
1. S. Acciai, Sketch of the elevation in gold
2. Cambel's yali at Arnavtkoi, beginning of XX century (source DAI Istanbul)

470
byzantine tradition a water reservoir was provided on the top of the property, maybe connected with a water-vaine streaming on the flanks of the Bosporus topography.

First of all we needed trimming the overgrown small plants and cutting not authochtone trees.

Focus of the project is the compatible reuse of this place as studies center of the Boğaziçi University, refurbishing the sequence of terraces as mesire (collective garden surrounded by walls).

Conservation of the heritage by means of the project: construction is, according to us, not far from re-construction.

Conservation, maintenance and the compatible reuse of the living heritage and of the cultural landscape is the mission, therefore this project consists in:

- rediscovering the way of the water;
- conservation and restoration of the terraces;
- maintenance of the complex system of retaining walls and draining net;
- disveiling the original topography as spectacular point de vue toward the surrounding landscape;
- re-construction of the underground system of baths and spaces, especially of the serdab the Persian declination of the Turkish bath;
- replanting of the original autochthone trees.

In this way we are re-discovering this garden maybe once belonging to the Sultan's gardener.

And all this learning from the past used as building material

- according to the nature, never against;
- listening to the topography;
- seeking the way of the water.