

Istanbul Technical University – Department of Architecture
MIM 312E - Architectural Design VI, 22255
 Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour : M 13:30-17:30 / R 13:30-17:30
Course Room : ÇATI 1
Course Credit : 5
Course Web Site : -

Course Instructor: Assoc.Prof.Dr. Mehmet Emin ŞALGAMCIOĞLU
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Office no: -

Project Studio Description

Design Studio's leading strategies primarily includes the investigation for a sustainable built environment. In this context, the contradiction between private and public, the relating parameters between them; dealing with the strategies that emerges a locality within the metropolitan city dealing with global features; sustainability of local dynamics; Service Production, Temporary Accommodation, Leisure, and Performance Center, etc. are suggested key design processes for this term of the studio. The following key assumptions through the studio process are Design investigations based in speculative and non-speculative architectural mediums; appropriate technologies for production and architectural design; Investigating the novel design trends emerging at our time; and Representing the architectural production that is rapidly changing. **Contemporary CO-EXIST** theme reflect the highly intellectual life reflected by the temporary accommodation design challenge as well as the physical confrontations that urban people see in everyday life. The relation of urban built environment and accommodation spaces is the key issue in this studio. TEMPORARY ACCOMMODATION + TRAINING + LEISURE ++ etc. is always a part of the progressing urban life and with the effect of this spatial organization; it may cause to minimize the conflicts and contradictions in the society. Public vs. Private is also an emerging issue in the essence of these spaces. Minimizing the conflicts within the society is possible with the interfacing space solutions and ideas in this context.

Project Studio Structure and Plan

Through the description and strategies of the studio the project site will be selected in the İstanbul's Etiler Neighborhood. The two staged site design and planning is also an important part of the design studio. First phase is the design of a local masterplan in relation with the global features of the city as a part of the studio. Second phase is the individual architectural design project phase through selected and developed architectural design programmes.

The studio coordinator will plan a trip to the site and attending to the trip is compulsory for developing the architectural design project. Following the urban analysis and design approach; you will match the former considerations and propose a design idea including the architectural and urban design comprising the selected functions and the transportation accessibilities as a max. total building area of 5000 m2.

Course Plan

WEEK		DATE / 2020	WORK PLAN	PHAS E	DURING THE COURSE **
1	mon	10 February	Meeting and Introduction	I	Studio Opening <i>Class Work on the movie "Urbanized"</i>
	thu	13 February	Structuring Thematic Presentations for Architectural Design and Regional Master Plan Approaches	I	
2	mon	17 February	Thematic Presentations Day 1	I	seminar / movie
	Thu	20 February	Thematic Presentations Day 2	I	
3	mon	24 February	Master Plan Approaches Design in scales 1/1000, 1/500 + Thematic Building Presentations Day	I	seminar / Presentations
	thu	27 February	Field Trip Site Analysis continued... Concept Work / Conception of Master Plan – Relations / Research / Design Analysis...	I	
4	mon	02 March	Definition of the concept Concept Work / Conception of Master Plan... 1/1000 – 1/500	II	class work
	thu	05 March	Definition of the concept (Concept Work / Conception of Master Plan continued... 1/1000 – 1/500)	II	

5	mon	09 March	Definition of the concept (Concept Work / Conception of Master Plan continued... 1/1000 – 1/500)	II	class work
	thu	12 March	Programmatic & Structural Basis Design in scales 1/500, 1/200	II	
6	mon	16 March	Design Development 1/500, 1/200	II	research seminar
	thu	19 March	Design Development 1/500, 1/200	II	sketch exam / class work
7	mon	23 March	Design Development 1/500, 1/200	II	
	thu	26 March	Jury Evaluation / Design Decisions – Site Work	II	class work
8	mon	30 March	Term Break	II	No Class
	thu	03 April	Term Break	II	No Class
9	mon	06 April	Design Development 1/500, 1/200	III	movie
	thu	09 April	Design Development 1/500, 1/200	III	
10	mon	13 April	Architectural Interpretation Design in scales 1/200, 1/100	III	submission
	thu	16 April	Architectural Interpretation Design in scales 1/200, 1/100	III	sketch exam / class work
11	mon	20 April	Architectural Interpretation Design in scales 1/200, 1/100	III	seminar
	thu	23 April	Architectural Interpretation Design in scales 1/200, 1/100	III	
12	mon	27 April	Architectural Interpretation Design in scales 1/200, 1/100, 1/50	III	seminar
	thu	30 April	Architectural Interpretation Design in scales 1/200, 1/100, 1/50	III	
13	mon	04 May	Jury Evaluation / Design Development in 1/200, 1/100, 1/50	III	Jury Evaluation
	thu	07 May	Design Development in 1/200, 1/100, 1/50	III	Discussion / class model work
14	mon	11 May	Design Development in 1/200, 1/100, 1/50	III	Discussion / class model work
	thu	14 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Discussion / class model work
15	mon	18 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Board Presentations / Digital Work
	thu	21 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Board Presentations / Digital Work
Preparations for Submission		22 May-01 June	End of Semester / Post-production Phase		
Submission		will be announced later	submission		submission

Class Seminars : Structure, Model Making, Presentation – Representation...

Short Class Works : site - theme presentations, student building presentations, Charette, Collage

Recommended Readings

Altman, I. (1975). The environment and social behavior: privacy, personal space, territory, crowding. Monterey, CA.: Brooks/Cole Publishing.

Benedikt, M. (1979). To take the hold of space: isovists and isovist fields. Environment and planning b: planning and design, 6, 47-65.

Gibson, J. J. (1979). The Ecological Approach to Visual Perception. Boston: Houghton Mifflin.

Salgamcioglu, M. E., Ünlü, A. (2013), 'Examining Space Transformation in Apartment-based Housing Units in Istanbul using Space Syntax Parameters.' Young Ook Kim, Hoon Tae Park, Kyung Wook Seo (Eds.), in Proceedings of Ninth International Space Syntax Symposium, Sejong University Press, Seoul, South Korea.

Hillier, B. ve Hanson, J. (1984). The social logic of space. Cambridge: Cambridge University Press.

Lynch, K. (1960). The image of the city. Massachusetts Institute of Technology, Cambridge, Massachusetts, and London, England: The MIT Press.

Lefebvre, H. (1991). The production of space. D. Nicholson-Smith (Trans.). Oxford: Blackwell.

Lang, J. T. (1987). Creating architectural theory: the role of the behavioral sciences in environmental design. New York: Van Nostrand Reinhold Co.

Lynch, K. (1960). The image of the city. Massachusetts Institute of Technology, Cambridge, Massachusetts, and London, England: The MIT Press.

Lefebvre, H. (1991). The production of space. D. Nicholson-Smith (Trans.). Oxford: Blackwell.

Stokols, D. (2018). Social ecology in the digital age: Solving complex problems in a globalized world. Academic Press.

Hillier, B., Penn, A., Hanson, J., Grajewski, T., Xu, J., (1993), 'Natural movement: or, configuration and attraction in urban pedestrian movement.' Environment and Planning B: Planning and Design, Volume 20, p. 29-66

Project Studio Assessment

	Activities	Quantity	Effects of Grading
ASSESSMENT	Term Process Grading (Presentations, term submissions, short works, participation to discussions and class hours; jury evaluation)	5	% 40
	Final Submission (jury evaluation)*	1	% 60

Contributors

2 Jury Evaluations and Additional Term Assessments (with the contribution of)

Ali Eray – PAB Mimarlık (<https://www.pab.com.tr>)

Esra Sönmez İşlek - LAB::ISTANBUL (<http://labistanbul.com>)

Bediha Güngör - LAB::ISTANBUL (<http://labistanbul.com>)

Emre İşlek – Bold Mimarlık (<http://boldmimarlik.com/>)

İsmet Güngör – Özer/Ürger Mimarlık (<http://ozerurger.com>)

Note : Above Sections are given as minimum requirements. Please refer to the extended syllabus below for more information.

Architectural Design Studio 6

ITU / Faculty of Architecture / 2019-2020 Spring Semester/ Mehmet Emin Şalgamcıoğlu

CONTEMPORARY

CO-Exist

in the sustainable urban environment

Dealing with sustainability and possible mediums in Architectural Design

Mix-Use Space Design in Etiler, Istanbul.

private vs. public

Design Studio's leading strategies primarily includes the investigation for a sustainable built environment. In this context, *the contradiction between private and public, the relating parameters between them; dealing with the strategies that emerges a locality within the metropolitan city dealing with global features; sustainability of local dynamics; Service Production, Temporary Accommodation, Leisure, and Performance Center, etc.* are suggested key design processes for this term of the studio. The following key assumptions through the studio process are *Design investigations based in speculative and non-speculative architectural mediums; appropriate technologies for production and architectural design; Investigating the novel design trends emerging at our time; and Representing the architectural production that is rapidly changing.*

In terms of representation comics and toys are also showing up in perspectives and models nowadays, orthographic drawings are still vivid but crafting optical tricks are a part of the representation. These kinds of various strategies are always part of the studio. Physical modeling through different technics and materials should also be used through the process in the studio, which is crucial for development of the design. In that sense, even mobilizing the representation of the architectural design via physical model is considerable and necessary.

New trends, technologies, strategies in architectural design are always an input through this design studio.

Through these strategies the project site will be selected in the İstanbul's Etiler Neighborhood. The two staged site design and planning is also an important part of the design studio. First phase is the design of a local masterplan in relation with the global features of the city as a part of the studio. Second phase is the individual architectural design project phase through selected and developed architectural design programmes.

The studio coordinator will plan a trip to the site and attending to the trip is compulsory for developing the architectural design project.

The question of "whose space is this?" is vivid.

if place, by its very nature, provides a sense of orientation and identity by establishing an inside in the midst of outside, then we should seek to understand how the physical and built environments can contribute to this

insiderness.

David Seamon, 2003.

THIS SEMESTER, ARCHITECTURAL DESIGN STUDIO 6 IS INVESTIGATING THE temporary accommodation spaces in relation with the local interactions of urban land and the built environment.

In this sense, Contemporary CO-Exist in ISTANBUL is vivid. Public vs. Private, Building The Interface and The Place for Temporary Accommodation, Training, and Leisure is the active design strategy.

This is an architectural design project studio dealing with the design of urban land and looking for creative design ideas mainly on temporary accommodation complexes including the varieties in hotels, hostels, information interfaces, spaces for leisure time activities including the commercially used spaces as well as spaces in relation with the performance halls, rest and recreation areas. The project sites are determined in such areas relating with both pedestrian movement and transportation related, train, metro, or bus line connections. The goal is to unify and co-exist within the related facilities where the heavy traffic loads. The creation of rest areas and also public spaces needed to be considered. The project should also allow people to move freely between different levels in the urban scale, depending on the specific qualities of the sites. The sites will be assigned from the coastal line of İstanbul or from downtown areas.

Lynch and Stea's imaginative parameters specifying the urban core elements such as nodes, paths, districts, landmarks, barriers and edges are key factors in the urban analysis. Students should consider these elements in their analysis and they should also achieve the connections of these contexts in the city life. In the urban analysis rather than being a physical context, movement, human behaviors, signs, symbols, cultural and social aspects are also key factors for design.

Contemporary co-exist reflect the highly intellectual life reflected by the temporary accommodation design challenge as well as the physical confrontations that urban people see in everyday life. The relation of urban built environment and accommodation spaces is the key issue in this studio. TEMPORARY ACCOMMODATION + TRAINING + LEISURE ++ etc. is always a part of the progressing urban life and with the effect of this spatial organization; it may cause to minimize the conflicts and contradictions in the society. Public vs. Private is also an emerging issue in the essence of these spaces. Minimizing the conflicts within the society is possible with the interfacing space solutions and ideas in this context. Functions and also locations reinforce an urban metaphor. Emerging as a landmark, the design may also expose the art products on an intersected area mainly located on the visitors' path and route, integrating with the daily urban life. The design in this project is expected as a node in the built environment and in/on/over/under the intersection of public/pedestrian walkways/the web of transportation. The design of the center also boosts both "to" and "through" movement in terms of the movement of the people in or between the public and private areas of the

developing city. The goal is directly or indirectly to cause the meeting/confrontation of the visitor and the product, in various volumetric spaces considered as a path going through the heart of the design that pulls the people inside and reflects the accommodation and urban life. The design should physically reinforce a contemporary look as well as the reflections of the surrounding urban site with an architecture blended in the contemporary life of the city.

In this sense, CONTEMPORARY CO-EXIST is the leading theme. Public vs. Private, Building the Interface and the place for sustainable development of the selected sites with the specified selected function is the active design strategy. In addition to that ***Microcosm vs. Macrocosm*** is the strategy for being in the world in different dimensions and scales for this studio.

This is an architectural design scale project that is dealing also with urban design in this sense and looking for creative design ideas on various functions including the varieties in sustainable life cycles of the selected key site in masterplan and local scales. The project sites are determined in such areas relating with both pedestrian movement and transportation related connections. The goal is to unify and co-exist within the related land or facilities where the existing built environment and life is still continuing. The creation of rest areas and also public spaces needed to be considered. The project may also allow people to move freely between different levels in the urban scale depending on the specific qualities of the sites. The exact site border will be announced later during the studio process.

CON-TEMPORARY CO-EXIST reflect the highly intellectual, sustainable and locally developing life with its global connections dealing with the hidden layers of sustainable contemporary design challenge as well as the physical confrontations that people see in everyday life.

Following the urban analysis and design approach; you will match the former considerations and propose a design idea including the architectural and urban design comprising the selected functions and the transportation accessibilities as a max. total building area of 5000 m².

Students will work on a master plan design and urban analysis on the site within a group and also individually developed architectural design projects afterwards. During the masterplan and urban analysis part, students will prepare an analysis considering Lynch's and Stea's imaginative elements; Barker's "Behavior Setting" through behavior patterns in the urban land; Hillier and Hanson's "Social Logic of Space" leading to the major steps in "Space Syntax" theory and methodological approaches; and semantics and pragmatics of the space as well as Daniel Stokols's "Social Ecology in The Digital Age" and discussing the virtual and real space within the question of "where do we belong to?". The semantic of the space, in this case, might be considered all interfaces between the person and the environment as symbols and signs. The pragmatics of space is dealt with non-verbal communication, human movements, behavioral modes, social aspects and cultural realm.

As preliminary studio presentation works explained as short works in the schedule; First, students should work on an example sustainability project of a contemporary architect similar to this studio's theme reflecting the local and global connections from present time with its connections with the urban scale within a group of two.

Second, thematic (will be announced during the studio) presentations depending on the qualities and potentials of the region that is being worked will also be presented as groups of 4 or 5. In sum, you will be presenting 2 preliminary researches with your groups.

Drawing Scales will be starting from 1/1000 urban scale to 1/500 design scale, 1/200 or 1/100 architectural scale and lead to 1/20 construction detail scale.

80% attendance is required.

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4	mon	02 March	Definition of the concept Concept Work / Conception of Master Plan... 1/1000 – 1/500	II	class work
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5	mon	09 March	Definition of the concept (Concept Work / Conception of Master Plan continued... 1/1000 – 1/500)	II	class work
	thu	12 March	Programmatic & Structural Basis Design in scales 1/500, 1/200	II	
6	mon	16 March	Design Development 1/500, 1/200	II	research seminar
	thu	19 March	Design Development 1/500, 1/200	II	sketch exam / class work
7	mon	23 March	Design Development 1/500, 1/200	II	
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8	mon	30 March	Term Break	II	No Class
	thu	03 April	Term Break	II	No Class

9	mon	06 April	Design Development 1/500, 1/200	III	movie
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	thu	16 April	Architectural Interpretation Design in scales 1/200, 1/100	III	sketch exam / class work
11	mon	20 April	Architectural Interpretation Design in scales 1/200, 1/100	III	seminar
	thu	23 April	Architectural Interpretation Design in scales 1/200, 1/100	III	
12	mon	27 April	Architectural Interpretation Design in scales 1/200, 1/100, 1/50	III	seminar
	thu	30 April	Architectural Interpretation Design in scales 1/200, 1/100, 1/50	III	
13	mon	04 May	Jury Evaluation / Design Development in 1/200, 1/100, 1/50	III	Jury Evaluation
	thu	07 May	Design Development in 1/200, 1/100, 1/50	III	Discussion / class model work
14	mon	11 May	Design Development in 1/200, 1/100, 1/50	III	Discussion / class model work
	thu	14 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Discussion / class model work
15	mon	18 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Board Presentations / Digital Work
	thu	21 May	Advanced Development / Presentation Design Development 1/200 - 1/100 - 1/50 - 1/20	III	Board Presentations / Digital Work
Preparations for Submission		22 May-01 June	End of Semester / Post-production Phase		
Submission		will be announced later	submission		submission

** The content and schedule of the class work may subject to change due to availability of the lecturers and content of the work.

Additional Class Works Content & Contributors in Brief :

2 Jury Evaluations and Additional Term Assessments

(with the contribution of)

Ali Eray – PAB Mimarlık (<https://www.pab.com.tr>)

Esra Sönmez İşlek - LAB::ISTANBUL (<http://labistanbul.com>)

Bediha Güngör - LAB::ISTANBUL (<http://labistanbul.com>)

Emre İşlek – Bold Mimarlık (<http://boldmimarlik.com/>)

İsmet Güngör – Özer/Ürger Mimarlık (<http://ozerurger.com>)

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Class Seminars

Structure

Model Making

Presentation – Representation...

Short Class Works

site - theme presentations

student building presentations

Charette

Collage

Evaluation Criteria :

	Activities	Quantity	Effects of Grading
ASSESSMENT	Term Process Grading (Presentations, term submissions, short works, participation to discussions and class hours)	5	% 40
	Final Submission*	1	% 60

Final Submission* documents :

In the design studio – (Exact date and time period will be announced later)

A1 boards, A3 hardcopy submission.

Physical Model, Booklet, Digital files (CD, DVD, or file transfer) submission.

A1 size formatted submission (max. 12 A1 boards – You may be presenting A0 boards, but cut it in the middle as legible and properly presented 2 A1s) should include :

- **1/1000 master plan that you have worked on including the general layout plan that you have developed** (showing your designs, movement of people and vehicles; organization of open and closed, public and private spaces). (You may be submitting your master plan as a group -please mention your area/names on the board in that case- and showing more specific parts in your individual boards. If a group work is not possible please prepare and present it individually in your individual boards)
 - **Environmental and Architectural Analysis** concerning the project development.
 - **Representation of the development of the project** including different stages and design development idea. Diagrams, mixed presentation techniques including collages and reformatted drawings showing your design idea, development and final situation.
 - **1/500 site plan**, including relations with the surrounding, information about the project (including information about functions, levels, accessibility, shading positions of the masses according to the selected sun position, etc.).
 - **1/500 silhouettes**, showing the site from the selected ground sections that are perpendicular to each other, towards the development of building-environment relationship (showing the topography and the environment is important in this representation).
 - **1/200 plans** (It is important to draw the ground floor plan that approaches to open/closed spaces and entrances, also shows the relations with the close environment, movement of people and vehicles).
- (Note: for some of the projects the scale of the plan, section and elevations may be 1/50 or 1/100 – we have specifically talked to the owners of these projects during the process, if we did not mention you

any scale you will be presenting 1/200)

- **1/200 sections** (perpendicular to each other)
- **1/200 elevations** showing the main directions in relation with the facades (as north elevation, east elevation, north-east elevation etc.)
- **Diagrams, models, graphic explanations of spatial organization**
- **Images and collages** showing the character of the building in relation with the city life, material used in the building, etc.
- **Circulation diagram, production process, etc. according to the specific characteristics of the projects.**
- **3D drawings:** digital models, perspectives
- **1/20 system detail** (partial section and elevation), partial section according to structural system, material, building technologies
- **1/500, 1/200 or 1/333 Physical model**, including the environment and relations with the surrounding (the scale will be determined according to the dimensions of the physical model and context of the final individual project)
- **Architectural report** of max.250 words is expected within the first presentation board with diagrams and written phrases. **It will not be printed or submitted separately.**
- **Booklet Submission:** [A4] (21cm x 29,7cm) formatted or [21cm x 21cm] formatted booklet representing your project (including the narration; process and presentation of the project; the previous examples will be shared in the studio process). **This booklet submissions will be published as a complete, one studio booklet at the end of the term.**
- **Digital files submission (CD, DVD, or file transfer)** including all of the submitted material (posters, report, images of the built model) and hardcopies of the presented A1 boards will also be submitted in A3 size (**please prepare and submit 2 sets of A3 hardcopy presentations**).
- **A3 Sized hardcopy presentations** and also A1 submission boards should include the labeling of the Design Studio. Showing the topic, name of your project, your name and studio's year and supervisor/instructor.

References :

- Altman, I. (1975). *The environment and social behavior: privacy, personal space, territory, crowding*. Monterey, CA.: Brooks/Cole Publishing.
- Benedikt, M. (1979). To take the hold of space: isovists and isovist fields. *Environment and planning b: planning and design*, 6, 47-65.
- Çelik, Z. (1986). *The remaking of istanbul*. Seattle & London: University of Washington Press.
- Dovey, K. (1985). Homes and Homelessness. In I. Altman, C. Werner (Eds.), *Home Environments*. New York: Plenum Press.
- Eco, U. (1984). *Semiotics and the philosophy of language*. Bloomington, IN.: Indiana University Press.
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- Gibson, J. J. (1979). *The Ecological Approach to Visual Perception*. Boston: Houghton Mifflin.
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- Hall, E.T. (1966). *The hidden dimension*, Anchor Books.
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- Harvey, D. (1990). *The condition of postmodernity*. Blackwell.
- Hillier, B. ve Hanson, J. (1984). *The social logic of space*. Cambridge: Cambridge University Press.
- Hillier, B. (2007). *Space is the machine: a configurational theory of architecture*. [UCL Discovery Version]. Erişim adresi http://eprints.ucl.ac.uk/3848/1/SpaceIsTheMachine_Part1.pdf
- Rapoport, A. (1977). *Human aspects of urban form: towards a man-environment approach to urban form and design*. Oxford: Pergamon Press.
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- Peponis, J. ve Wineman, J. (2002). The Spatial Structure of Environment and Behavior: Space Syntax. In R. Bechteland, A. Churchman (Eds.) *Handbook of Environmental Psychology*, (pp.271-291). New York: John Wiley & Sons, Inc.
- Newman, O. (1972) *Defensible space*, New York: Mac Millan.
- Mugerauer, R. (1994). *Interpretations on behalf of place*. New York: Suny Press.
- Lynch, K. (1960). *The image of the city*. Massachusetts Institute of Technology, Cambridge, Massachusetts, and London, England: The MIT Press.
- Lefebvre, H. (1991). *The production of space*. D. Nicholson-Smith (Trans.). Oxford: Blackwell.
- Lang, J. T. (1987). *Creating architectural theory: the role of the behavioral sciences in environmental design*. New York: Van Nostrand Reinhold Co.
- Keyder, Ç. (1999a). *İstanbul küresel ile yerel arasında*. İstanbul: Metis Yayınları.
- Yi-Fu, T. (1977). *Space and place: the perspective of experience*, University of Minnesota Press, Minneapolis.
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- Cresswell, T., (2004). *Place: a short introduction*, Blackwell Publishing, Oxford.
- Deleuze, G., Guattari, F., (2005). The smooth and the striated, *A thousand plateaus: capitalism and schizophrenia* içinde, s.474-500, University of Minnesota Press, Minneapolis, London.
- Soja, W.E., (2000). Thirdspace: expanding the scope of the geographical imagination, *Architecturally speaking* içinde, s.13-30, Ed. Read, A., Routledge, London & New York.
- Stokols, D. (2018). *Social ecology in the digital age: Solving complex problems in a globalized world*. Academic Press.

Hillier, B., Penn, A., Hanson, J., Grajewski, T., Xu, J., (1993), 'Natural movement: or, configuration and attraction in urban pedestrian movement.' Environment and Planning B: Planning and Design, Volume 20, p. 29-66

Peponis, J., & Hedin, J. (1982), The layout of theories in the Natural History Museum. 9H, 3, 12–25.

Ünlü, A., Edgü, E., Cimşit, F., Salgamcioglu, M. E., Garip, E., Mansouri, A. (2009), 'Interface of Indoor and Outdoor Spaces in Buildings: A Syntactic Comparison of Architectural Schools in Istanbul.' In D. Koch, L. Marcus, J. Steen (Eds.), Proceedings of 7th International Space Syntax Symposium, (p.132). Stockholm, Sweden: KTH Royal Institute of Technology.

Salgamcioglu, M. E., Ünlü, A. (2013), 'Examining Space Transformation in Apartment-based Housing Units in Istanbul using Space Syntax Parameters.' Young Ook Kim, Hoon Tae Park, Kyung Wook Seo (Eds.), in Proceedings of Ninth International Space Syntax Symposium, Sejong University Press, Seoul, South Korea.

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