RESEARCH ARTICLE

CREATING A METHOD OF REFLECTING THE BASIC CONCEPTS OF ISLAMIC RELIGION IN THE OTTOMAN PERIOD RELIGIOUS ARCHITECTURE

[1]Birgül Çakıroğlu, [2]Ayşe Sağsöz and [3,*]Reyhan (Gedikli) Akat

[1]Department of Construction and Technical Works, Karadeniz Technical University, 61080, Trabzon, Turkey
[2]Department of Interior Architecture, Nuh Naci Yazgan University, Kayseri, Turkey
[3]Ministry of Environment and Urban Planning, Presidency for Strategy Development, Ankara, Turkey

ARTICLE INFO	ABSTRACT
	Turkey and in the world of architectural space seen, heard, perceived, measured on factors that can be felt, was studied. However, we cannot identify the effect in the formation, we feel that we can't see, but there are some factors which we estimate to be there. From a religious point of view these factors is the basic purpose of the study is to uncover and interpret. The aim of this study is to determine the affect of fundamental İslamic principals on architecture in other words on architectural formation by considiring religion conceptions' affects on architecture based on the assunmption that every concept has its own inherent language. In this context, in Turkey from the Ottoman period mosques, madrasahs and tombs were examined for a total of 40 works of religious architecture of the example. Semiotic principal is used to interpriate and explain religional concepts. Semantic and syntactic size analyses of samples conducted and interpreted over the structure of indicators were presented and they made religious concepts in species.

INTRODUCTION

Islamic architecture, Islamic attitude, reflection of emotions and expressions (Cansever, 1997). The system of belief in man, the essence of being, is reflected directly in what he does. Style is a direct reflection of beliefs; because there is a unbroken, pure, sincere and absolute relationship between beliefs and servants (actions) (Faruki, 1999). Central, inward spatial schemes; patterns consisting of units that are complementary to each other and related to each other; sovereignty of central charts; a lean solution that adapts to environmental conditions and an architectural language that uses a limited number of materials and avoids showing off; architecture integration, and selection of geometric abstraction that shares the same decoration concept; It is possible to say that modesty against God is also reflected in the use of materials and the scale (Yücel, 1981). Factors affecting the development of Islamic art Nusret Çam, (Çam, 1997); The factors that originated from the Islamic religion's own constitution (theology, jurisprudence and mysticism), contact with neighboring and old cultures, climate and material situation, experience and technological development, national, local and personal aesthetic understandings. In Islamic art, the artist is similar in terms of the effects of using paint, tree, bricks, stone, metal, clan or fabric. The local arts in Islamic culture are based on the basic features of Islamic arts. These basic features are listed below (Faruki, 1999).

- At least five major categorizations are given to the changing of the nature, as exemplified in the performing arts. These; Coating, Substitution of Materials, Substitution of Structures, Substitution of Content (Content) and Substitution of Function Uncertainty.
- Union / Modules
- Consecutive combinations
- Replay
- Dynamism
- Complexity (Faruki, 1999)

Corresponding author: Reyhan (Gedikli) Akat,
Ministry of Environment and Urban Planning, Presidency for Strategy Development, Ankara, Turkey

MATERIALS AND METHODS

Field of work

The Ottoman period between the 13th and 17th centuries was chosen as the study area in Turkey. The examples of religious architecture in Bursa, Istanbul and Edirne were discussed, to possess the characteristics of the period, to obtain sufficient information about it. The purpose of considering Turkey as a field of study; is important both in terms of practicality and of having a richness of tissue and tissue (Figure 1).

Figure 1. Study area
http://cografyaharita.com/haritalarim/4jdilsiz_turkiye_haritasi_sil.png

Methods

The method is based on the analysis and analysis of a specific group of buildings, depending on the architectural influences of Islamic religion and the concepts of Islamic religion. Depending on the assumption that the architect of the basic purpose of the affair influences the formation of the religion, it is considered that the religious fundamental concepts and subtitles (obtained in the literature search) influence or are reflected on the architectural constructions, which can be easily read by the user. For example; It is known that the Ottoman architectural examples are influenced by Islamic religion depending on the different types of buildings in Anatolia. However, it is a question of what concepts and what kind of structure is influenced by the concept. Based on this question, it was aimed to determine the different types of structures in the Ottoman period and to sample them and question the effects of Islamic concepts and subheadings obtained in the literature on these examples. Based on the assumption that religious concepts influence architecture and concepts are a language, it is aimed to determine the effect of basic concepts in Islamic religion, religious architectural reflections or other definitions. The purpose here is to achieve concrete forms and conclusions of abstract values.

The structure types of the Ottoman period obtained after the search of the literature are analyzed, classified and examined with the help of the semantics principle and the meaning of the basic concepts in the structure of the Islamic religion which has been studied and evaluated are revealed. During the following phases;

- Determination of working area; chronological, civilization scale, structure types
- The choice of the samples; identification studies based on publications, external observation techniques, interview techniques.
- Identification study of the samples; field study, literature study
- Analysis of samples; visual data about the structure, information about the structure, explanations about the determination of the sub-concepts in the concepts that are taken into the study and analysis tables.

In this study; 16 concepts such as vahdaniyet, survival, knowledge, power, afterlife, prayer, alms, world, beauty, justice, trust, humility, fraternity, frugality, cleanliness and privacy were examined from the basic concepts of Islamic Religion. In terms of semantics, the concepts that are shown and shown must be applied to architecture for architect's interpretation. In terms of visual communication in the architectural contexts, meaningful features or features such as forms, spaces, masses, rhythm, color, texture; the ones that are shown are ikonogrif meanings, aesthetic meanings, architectural thoughts, sense of space, social beliefs and lifestyle, functions, actions, commercial aims, technical suitability, etc. are the items. Looking at the environment as a source of information, the constructions or structures that an architect creates can be interpreted as signs that transmit information. Syntax is

the structural / logical organization of the sign, the core element. The meaning is contained in the sequence, it examines the links between mark and reality. The benefit is contained in semantics and syntax, and examines the effects on the users of symbol systems sent by the sign (Çolak, 2004; Venturi, 1991; Guiraud, 1994; Erkman, 1987; Ching, 2002; Yücel, 2001; Aksoy, 1975; Aydınlı, 1993; Özek, 1983). In this context;

Concepts in the semantic dimension

- Considered concepts of Islamic religion; sub-concepts based on literatures and verses in the Quran
- The concepts in the types of buildings that are discussed are derived from the sub-concepts based on the literature
- Emotional reaction concepts in the literature.

Concepts in the syntactic dimension; basic design principles was conducted under (Uraz, 1993; Divanlıoğlu, 1997; Gürer, 2004; Kuban, 1989; Güngör, 1983; Tavşan, 2000; Rasmussen, 1994; Graves; 1951; Parlatır, 1994). The analyses that were based on the principles were made in the plans, vertical plans, façades, inner spaces and physical environments of the buildings. The formal principles that were studied are as follows:

- Symmetry
- Dominance
- Rhythm (repetition)
- Balance
- Contrast
- Hierarchy
- Harmony
- Unity

The selection of the samples under investigation: Based on an exhaustive literature review, 40 sample buildings of religious architecture which remained intact up to the present day, which have not lost their characteristics, and about which we have enough information were chosen to be analysed. These buildings consisted of 22 mosques, 10 madrasahs, and 8 tombs. Of the examples of both civil and religious architecture, the samples were chosen only from the religious architecture due to the fact that the topic was very broad in scope. The following methods were used in the selection of the samples:

- Identification work based on publications,
- Observation,
- Interview.

Creation of method

Establishing the method of Concepts in Semantic Dimension

As discussed in research related to the semantic dimension of concepts, have been developed based on the literature as (Table 1) (Yörükan, 1998; Topaloğlu, Yavuz and Çelebi, 2002; Öztürk, 1991; Rahman, 1999; Ünal, 1986; Parlatır, 1994; Aykan, 2002). In this study; 16 concepts such as vahdaniyet, survival, knowledge, power, afterlife, prayer, alms, world, beauty, justice, trust, humility, fraternity, frugality, cleanliness and privacy were examined from the basic concepts of Islamic Religion.

Table 1. Sub-concepts related to concepts in Islamic Religion

Concepts	Sub concepts		Contrasting concepts
Vahdaniyet	- unity, uniqueness		-common, common run, pluralism
Survival	-infinity -immortality -continuity -permanence		-being finite -mortality -discontinuity -impermanence
Knowledge	- know		- ignorance
Power	- authority		-weakness, impotence, inability
Afterlife	- resurrection - Armageddon - account inquiry		- world
	Paradise	-unique -beauty, goodness, happiness, affection, love - peace - reward -eternal, permanent, perpetual, eternal, immortal, continuous life - endless comfort - good deeds - bright, spacious, open	

	hell	-unique -ugliness, evil, unhappiness -restlessness, boredom, sadness -Punishment -eternal, permanent, perpetual, eternal, immortal, continuous life -discomfort -sin - dark, dreary, closed, hardness, opacity	
Prayer		- submit, surrender - orientation, - cleanliness, ablution -community, cohesion, unity (community) - discipline - peace	- rebel - divergence - dirt - loneliness - complexity - unrest
Alms		- solidarity - mercy - compassion, love, tolerance, kindness - peace	- evil - not mercy - hate - unrest
World		-death, finite, finitude, transience, impermanence - trial - entertainment, gaming - order, balance, discipline	-ebedilik- eternity - idleness - real - complexity
Beauty		- attractive- -sweetness, compassion, cheerful, pleasant - love - devotion, admiration - affection, peace - goodness, help, donation - community, cohesion	- unattractive, impulsive - unpleasant, depressing - hate - treachery, indifference - hostility - evil, sin - loneliness
Justice		- equality - love, goodness, tolerance - peace - truth, honesty - unity, solidarity - safety, trust	- inequality, imbalance - hate, evil - war - mistake -separation, mess - insecurity
Ttrust		- depend - patience - head tilting, submission, surrender - be hopeful, be thankful, be optimistic, be peaceful	- untrustful - impatient - rebellious -despair, pessimism, restlessness, distress
Humility		- modesty - simplicity, plainness - reverence, respect - moderation, gentleness, peacefulness -peace	- arrogance, pride - exaggeration - disrespect - hardness, noise - unrest
Faternity		- togetherness - solidarity - friendship, closeness - love, respect, goodness - confidence	- unity - evil - hostility - hatred, evil - untrustful
Frugality		- frugal, thrifty, budget, restrained	-waste, extravagance, excess, overindulgence
Cleanliness		- cleaning - purity - purity, clarity, simplicity	- dirt, pollution - -
Privacy		- confidentiality - forbidden - border, split	- openness - free - openness

Building types and building types according to their sub-concepts the creation of the method

The religious architectural structures covered in the survey are mosques, madrasas and tombs. In terms of the explanations made, basic concepts of building types are examined under the headings of mosque, madrasah and tomb (Table 2).

The concepts-principles at the semantic and syntactic aspects

Analyzing the semantic dimension; 47 sub-concepts related to the subject were discussed (Michelson, 1975; Çolak, 2004; Ertürk, 1984; Aykan, 2002; Parlatır, 1994; Çakıroğlu, 2006). Analyzing the syntactic dimension; basic design principles (symmetry, dominance, rhythm, balance, contrast, hierarchy, harmony, unity) reviewed under (Table 3).

Table 2. The sub-concepts that define the mosques, madrasahs and tombs

	Building types		
	Mosque	**Madrasah**	**Tomb**
Sub-concepts	- Worship - Community - Gathering - Togetherness - Knowledge - Relief - Peace - Confidence - Power - Cleanliness (Fountain) -Cooperation (Public fountain) - Sharing - Friendship - Affection - Respect - Tolerance - Guidance - Power - Grandeur - Endurance	- Knowledge - Education - Research - Development - Cooperation - Togetherness - Wisdom - Endurance - Success	- Death - Temporariness - Mortality - History - Respect - Good feeling - Power - Grandeur - Endurance

Table 3. The concepts-principles at the semantic and syntactic aspects

The semantic dimension		
The sub-concepts that were investigated by being based on the basic concepts in the religion and emotional reactions		
Unity, uniqueness Common, common run, pluralism	Solidarity Evil	Effective, assertive Ineffective, unpretentious
Eternity, immortality, permanence İmpermanence, mortality, finitude	Mercy Not mercy	Empty Full, whole
Infinity Finitude	Depend Untrustful	Free space, unlimited space Limited, enclosed space
Continuity Discontinuity	frugal, thrifty, budget, restrained waste, extravagance, excess, overindulgence	Dynamic Plain, boring, monotone
Knowledge Ignorance	Attractive Unattractive, impulsive	Durability Instability
Power Powerlessness	Equality İnequality, imbalance	Mystic, mysterious Non-mystic
Beauty, goodness, love, respect, happiness Ugly, evil, unhappiness	Integrity, honesty Mistake	Rhythmic, harmonic Unrhythmic
Peace, peaceful, relaxing Restlessness, unsettling	Safety, trust, Escrow Unsafe, insecure	Inviting Repelling
Reward Sin	Humility, modesty Arrogance, pride	Heavy Light
Bright, spacious, open Dark, gloomy, closed	Simplicity, plainness Exaggeration	Harmony, harmonious Inharmonious
Warm, welcoming Cold, not welcoming	Reverence, respect Disrespect	High Low
Submit, surrender Rebel	Confidentiality Openness	Slim, elegant, polite Rough, raw
Discipline, order, balance Chaos	Forbidden Free	Sacred, religious, spiritual Unholy
Orientation Away	Border, split Openness	Inner directed Outer directed
Community, togetherness Loneliness	Surprising Clear, obvious	Success Failure
Cleaning, purity Dirt, pollution	Simple, clear Complex, multi-part, difficult to understand	
The syntactic dimension		
The basic design principles		

Formation principles

Symmetry   Dominance   Rhythm (Repetition)   Balance   Contrast   Hierarchy   Harmony   Unity

RESULTS

Semantic and syntactic Dimensional analyzes have been carried out on the examples of the 16 religious concepts selected from the concepts that influence the religious architecture based on the literature. Religious concepts, Semantic dimension in terms of the

concepts in the title, at the level of syntax, explicated in terms of basic design principles. In the examined specimens according to the type of the structure of concepts forming the bottom of the concepts of syntax and semantic analysis is as follows:

Concept of Vahdaniyet

Table 4. Semantic dimension table of the concept of Vahdaniyet

Concept	Building types		
	Mosque	Madrasah	Tomb
Unity, uniqueness			
Submit, surrender			
Discipline, balance			
Orientation			
Free space, unlimited space			
Mystic, mysterious			
Rhythmic, harmonic			
Dynamic			
Sacred, religious, spiritual			
Inner directed			

Table 5. Syntactic dimension table of the concept of Vahdaniyet

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Survival

Table 6. Semantic dimension table of the concept of Survival

Concept	Building types		
	Mosque	Madrasah	Tomb
Eternity, immortality, permanence			
Infinity			
Continuity			
Discipline, balance			
Rhythmic, harmonic			
Mystic, mysterious			
Plain, boring, monotone			

Table 7. Syntactic dimension table of the concept of Survival

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Knowledge

Table 8. Semantic dimension table of the concept of Knowledge

Concept	Building types		
	Mosque	Madrasah	Tomb
Knowledge			
Success			
Durability			

Table 9. Syntactic dimension table of the concept of Knowledge

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Power

Table 10. Semantic dimension table of the concept of Power

Concept	Building types		
	Mosque	Madrasah	Tomb
Power			
Effective, assertive			
Full, whole			
Heavy			
High			
Durability			

Table 11. Syntactic dimension table of the concept of Power

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Afterlife

Table 12. Semantic dimension table of the concept of Afterlife

Concept	Building types		
	Mosque	Madrasah	Tomb
Beauty, goodness, love, respect, happiness			
Peace, peaceful, relaxing			
Eternity, immortality, permanence			
Reward			
Bright, spacious, open			
Community, togetherness			
Warm, welcoming			

Table 13. Syntactic dimension table of the concept of Afterlife

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Prayer

Table 14. Semantic dimension table of the concept of Prayer

Concept	Building types		
	Mosque	Madrasah	Tomb
Submit, surrender			
Orientation			
Cleaning, purity			
Community, togetherness			
Discipline, balance			
Peace, peaceful, relaxing			
Reward			

Table 15. Syntactic dimension table of the concept of Prayer

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Alms

Table 16. Semantic dimension table of the concept of Alms

Concept	Building types		
	Mosque	Madrasah	Tomb
Solidarity			
Mercy			
Beauty, goodness, love, respect, happiness			
Peace, peaceful, relaxing			
Reward			

Table 17. Syntactic dimension table of the concept of Alms

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of World

Table 18. Semantic dimension table of the concept of World

Concept	Building types		
	Mosque	Madrasah	Tomb
İmpermanence, mortality, finitude			
Submit, surrender			
Surprising			

Table 19. Syntactic dimension table of the concept of World

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Beauty

Table 20. Semantic dimension table of the concept of Beauty

Concept	Building types		
	Mosque	Madrasah	Tomb
Attractive			
Community, togetherness			
Peace, peaceful, relaxing			
Bright, spacious, open			
Beauty, goodness, love, respect, happiness			
Warm, welcoming			
Dynamic			
Slim, elegant, polite			
Simple, clear			

Table 21. Syntactic dimension table of the concept of Beauty

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Justice

Table 22. Semantic dimension table of the concept of Justice

Concept	Building types		
	Mosque	Madrasah	Tomb
Equality			
Beauty, goodness, love, respect, happiness			
Integrity, honesty			
Community, togetherness			
Safety, trust, Escrow			
Peace, peaceful, relaxing			
Discipline, balance			
Warm, welcoming			
Clear, obvious			
Full, whole			
Rhythmic, harmonic			
Heavy			
Harmony, harmonious			

Table 23. Syntactic dimension table of the concept of Justice

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Ttrust

Table 24. Semantic dimension table of the concept of Ttrust

Concept	Building types		
	Mosque	Madrasah	Tomb
Depend			
Submit, surrender			
Peace, peaceful, relaxing			
Orientation			
Inviting			

Table 25. Syntactic dimension table of the concept of Ttrust

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Humility

Table 26. Semantic dimension table of the concept of Humility

Concept	Building types		
	Mosque	Madrasah	Tomb
Humility, modesty			
Simplicity, plainness			
Reverence, respect			
Peace, peaceful, relaxing			
Warm, welcoming			
Clear, obvious			
Simple, clear			
Inviting			
Light			
Harmony, harmonious			
Low			

Table 27. Syntactic dimension table of the concept of Humility

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Faternity

Table 28. Semantic dimension table of the concept of Faternity

Concept	Building types		
	Mosque	Madrasah	Tomb
Community, togetherness			
Loneliness			
Solidarity			
Beauty, goodness, love, respect, happiness			
Depend			
Peace, peaceful, relaxing			
Warm, welcoming			
Inviting			

Table 29. Syntactic dimension table of the concept of Faternity

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Frugality

Table 30. Semantic dimension table of the concept of Frugality

Concept	Building types		
	Mosque	Madrasah	Tomb
frugal, thrifty, budget, restrained			
Humility, modesty			
Simplicity, plainness			
Simple, clear			

Syntactic dimension table of the concept of Frugality

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Cleanliness

Table 32. Semantic dimension table of the concept of Cleanliness

Concept	Building types		
	Mosque	Madrasah	Tomb
Cleaning, purity			
Peace, peaceful, relaxing			
Forbidden			

Table 33. Syntactic dimension table of the concept of Cleanliness

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

Concept of Privacy

Table 34. Semantic dimension table of the concept of Privacy

Concept	Building types		
	Mosque	Madrasah	Tomb
Confidentiality			
Border, split			
Peace, peaceful, relaxing			
Full, whole			
Limited, enclosed space			

Table 35. Syntactic dimension table of the concept of Privacy

Basic design principles	Building types		
	Mosque	Madrasah	Tomb
Symmetry			
Dominance			
Rhythm			
Balance			
Contrast			
Hierarchy			
Harmony			
Unity			

DISCUSSION

Religion is one of the most important factors shaping architecture. All of the essential elements in Islam are connected by a superior principle. In Islamic civilization this superior principle is "tevhid". Religion-forming concepts or sub-concepts have a different language that needs to be explained in terms of each designer. This language is presented semantically and synthetically through the architect, and the user interprets this fiction more at the level of the syntactic dimension. Religious buildings, religious concepts, the architecture of influence; on the samples examined, with the analysis of the semantic dimension and the syntax determined, concrete forms of abstract values, and it was intended to reach conclusions. As a result of analysis of a total of 40 religious architectural samples, including 22 mosques, 10 madrasahs and 8 tombs, the basic design principles that sub-concepts of concepts, the types of building they are seen and sub-concepts are related to are given below.

Concept of Vahdaniyet

- Unity, uniqueness: **(Mosque, Madrasah, Tomb)** → Unity
- Submit, surrender: **(Mosque**, **Tomb)**→ Dominance
- Discipline, balance: **(Mosque**, **Madrasah**, **Tomb)** → Symmetry, Balance, Harmony, Unity
- Orientation: **(Mosque)** → Hierarchy, Harmony, Unity
- Free space, unlimited space: **(Mosque**, **Tomb)** → Symmetry, Dominance, Rhythm
- Mystic, mysterious: **(Mosque**, **Tomb)** → Dominance, Harmony, Unity
- Rhythmic, harmonic: **(Mosque**, **Madrasah**, **Tomb)** → Rhythm, Harmony, Unity
- Dynamic: **(Mosque)** → Dominance, Contrast, Hierarchy
- Acred, religious, spiritual: **(Mosque**, **Tomb)** → Harmony, Unity
- Inner directed: **(Mosque**, **Madrasah**, **Tomb)**→ Contrast, Harmony, Unity

Concept of Survival

- Eternity, immortality, permanence: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Harmony, Unity
- Infinity: **(Mosque**, **Tomb)** → **Mosque**; Dominance, Hierarchy, Harmony, Unity, **Tomb**; Harmony, Unity
- Continuity: **(Mosque**, **Madrasah**, **Tomb)** → **Mosque**; ritim, Hierarchy, Harmony,   **Madrasah** and **Tomb**; ritim, Harmony
- Discipline, balance: **(Mosque**, **Madrasah**, **Tomb)** → Simetri, denge, Harmony, Unity
- Rhythmic, harmonic: **(Mosque**, **Madrasah**, **Tomb)** → Ritim, Harmony, Unity
- Mystic, mysterious: **(Mosque**, **Tomb)** → Dominance, Harmony, Unity
- Plain, boring, monotone: **(Madrasah**, **Tomb)** → Ritim, Harmony

Concept of Knowledge

- Knowledge: **(Mosque**, **Madrasah)** → Balance, Harmony, Unity
- Success: **(Madrasah)** → Harmony, Unity
- Durability: **(Mosque**, **Madrasah)** → Dominance, Harmony, Unity

Concept of Power

- Power: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Contrast, Unity
- Effective, assertive: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Contrast, Unity
- Full, whole: **(Mosque**, **Madrasah)** → Dominance, Contrast, Unity
- Heavy: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Contrast, Unity
- High: **(Mosque**, **Tomb)** → Dominance, Contrast, Unity
- Durability: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Harmony, Unity

Concept of Afterlife

- Beauty, goodness, love, respect, happiness : **(Mosque**, **Madrasah**, **Tomb)** → **Mosque**; Symmetry, Dominance, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Peace, peaceful, relaxing : **(Mosque**, **Madrasah**, **Tomb)** → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Eternity, immortality, permanence: **(Mosque**, **Madrasah**, **Tomb)** → Dominance, Harmony, Unity
- Reward: **(Mosque**, **Madrasah**, **Tomb)** → Harmony, Unity
- Bright, spacious, open: **(Mosque**, **Madrasah**, **Tomb)** → Harmony, Unity
- Community, togetherness: **(Mosque**, **Madrasah)** → **Mosque**; Symmetry, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Balance, Harmony, Unity
- Warm, welcoming: **(Mosque**, **Madrasah)** → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Rhythm, Balance, Harmony, Unity

Concept of Prayer

- Submit, surrender: **(Mosque)** → Dominance
- Orientation : **(Mosque)** → Hierarchy, Harmony, Unity
- Cleaning, purity: **(Mosque)** → Harmony, Unity
- Community, togetherness: **(Mosque)** → Symmetry, Balance, Hierarchy, Harmony, Unity
- Discipline, balance: **(Mosque)** → Symmetry, Balance, Harmony, Unity,
- Peace, peaceful, relaxing: **(Mosque)** → Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity
- Reward: **(Mosque)** → Harmony, Unity

Concept of Alms

- Solidarity: (**Mosque**) → Hierarchy, Harmony, Unity
- Mercy: (**Mosque**) → Hierarchy, Harmony, Unity
- Beauty, goodness, love, respect, happiness: (**Mosque**) → Symmetry, Dominance, ritim, denge, Hierarchy, Harmony, Unity
- Peace, peaceful, relaxing: (**Mosque**) → Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity
- Reward: (**Mosque**) → Harmony, Unity

Concept of World

- İmpermanence, mortality, finitude: (**Mosque**, **Madrasah**, **Tomb**) → Contrast, Harmony, Unity
- Submit, surrender: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Balance, Harmony, Unity
- Surprising : (**Mosque**, **Madrasah**) → Dominance, Contrast

Concept of Beauty

- Attractive: (**Mosque**) → Symmetry, Rhythm, Hierarchy, Harmony, Unity
- Community, togetherness: (**Mosque**, **Madrasah**) → **Mosque**; Symmetry, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Balance, Harmony, Unity
- Peace, peaceful, relaxing: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Bright, spacious, open: (**Mosque**, **Madrasah**, **Tomb**) → Harmony, Unity
- Beauty, goodness, love, respect, happiness: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Dominance, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Warm, welcoming: (**Mosque**, **Madrasah**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Rhythm, Balance, Harmony, Unity
- Dynamic: (**Mosque**) → Dominance, Contrast, Hierarchy
- Slim, elegant, polite: (**Mosque**, **Madrasah**) → Balance, Harmony, Unity
- Simple, clear: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Dominance, Rhythm, Balance, Harmony, Unity

Concept of Justice

- Equality: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Balance, Harmony, Unity
- Beauty, goodness, love, respect, happiness: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Dominance, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Integrity, honesty: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Harmony, Unity
- Community, togetherness: (**Mosque**, **Madrasah**) → **Mosque**; Symmetry, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Balance, Harmon, Unity
- Safety, trust, Escrow: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Balance, Harmony, Unity
- Peace, peaceful, relaxing : (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Discipline, balance: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Balance, Harmony, Unity
- Warm, welcoming: (**Mosque**, **Madrasah**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Rhythm, Balance, Harmony, Unity
- Clear, obvious: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Full, whole: (**Mosque**, **Madrasah**) → Dominance, Contrast, Unity
- Rhythmic, harmonic: (**Mosque**, **Madrasah**, **Tomb**) → Rhythm, Harmony, Unity
- Heavy: (**Mosque**, **Madrasah**, **Tomb**) → Dominance, Contrast, Unity
- Harmony, harmonious: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Rhythm, Hierarchy, Harmony, **Madrasah** and **Tomb**; Rhythm, Harmony

Concept of Ttrust

- Depend: (**Mosque**, **Madrasah**, **Tomb**) → Balance, Harmony, Unity
- Submit, surrender: (**Mosque**, **Madrasah**, **Tomb**) → Dominance
- Peace, peaceful, relaxing: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Orientation: (**Mosque, Tomb**) → **Mosque**; Hierarchy, Harmony, Unity, **Tomb**; Harmony, Unity
- Inviting: (**Mosque**, **Madrasah**, **Tomb**) → Balance, Harmony, Unity

Concept of Humility

- Humility, modesty: (**Madrasah**) → Harmony, Unity, Balance
- Simplicity, plainness : (**Madrasah**) → Balance

- Reverence, respect: (**Mosque**, **Madrasah**, **Tomb**) → Balance
- Peace, peaceful, relaxing: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah** and **Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Warm, welcoming : (**Mosque**, **Madrasah**) **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Rhythm, Balance, Harmony, Unity
- Clear, obvious: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Simple, clear: (**Mosque**, **Madrasah**, **Tomb**) → Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Inviting : (**Mosque**, **Madrasah**, **Tomb**) → Balance, Harmony, Unity
- Harmony, harmonious: (**Mosque**, **Madrasah**, **Tomb**) → **Mosque**; Rhythm, Hierarchy, Harmony, **Madrasah** and **Tomb**; Rhythm, Harmony
- Low: (**Madrasah**) → Harmony, Unity, Balance

Concept of Faternity

- Community, togetherness: (**Mosque**, **Madrasah**) → **Mosque**; Symmetry, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Balance, Harmony, Unity
- Solidarity: (**Mosque**, **Madrasah**) → **Mosque**; Hierarchy, Harmony, Unity, **Madrasah**; Harmony, Unity
- Beauty, goodness, love, respect, happiness: (**Mosque, Madrasah, Tomb**) → **Mosque**; Symmetry, Dominance, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah and Tomb**; Symmetry, Dominance, Rhythm, Balance, Harmony, Unity
- Depend : (**Mosque, Madrasah, Tomb**) → Balance, Harmony, Unity
- Peace, peaceful, relaxing : (**Mosque, Madrasah, Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah and Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Warm, welcoming : (**Mosque, Madrasah**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah**; Symmetry, Rhythm, Balance, Harmony, Unity
- Inviting: (**Mosque, Madrasah, Tomb**) → Balance, Harmony, Unity

Concept of Frugality

- Frugal, thrifty, budget, restrained: (**Madrasah**) → Harmony, Unity, Balance
- Humility, modesty: (**Madrasah**) → Harmony, Unity, Balance
- Simplicity, plainness : (**Madrasah**) → Balance
- Simple, clear: (**Mosque, Madrasah, Tomb**) → Symmetry, Dominance, Rhythm, Balance, Harmony, Unity

Concept of Cleanliness

- Cleaning, purity: (**Mosque, Madrasah, Tomb**) → Harmony, Unity
- Peace, peaceful, relaxing: (**Mosque, Madrasah, Tomb**) → **Mosque**; Symmetry, Rhythm, Balance, Hierarchy, Harmony, Unity, **Madrasah and Tomb**; Symmetry, Rhythm, Balance, Harmony, Unity
- Forbidden: (**Mosque, Madrasah, Tomb**) → Dominance, Contrast

Concept of Privacy

- Confidentiality: (**Mosque, Madrasah, Tomb**) → Egemenlik, zıtlık
- Border, split: (**Mosque, Madrasah, Tomb**) → Egemenlik, zıtlık
- Peace, peaceful, relaxing: (**Mosque, Madrasah, Tomb**) → **Mosque**; simetri, ritim, denge, koram, uygunluk, Unity, **Madrasah and Tomb**; simetri, ritim, denge, uygunluk, Unity
- Full, whole : (**Mosque, Madrasah**) → Egemenlik, zıtlık, Unity
- Limited, enclosed space: (**Mosque, Madrasah, Tomb**) → Egemenlik, zıtlık

It can be said that the interpretation of meanings, forms, measure-ratios depending on the architectural functions may be very useful in explaining this factor and in revealing the parameters that can be a guide for new designs. However, in other concepts not included in Islamic religion,

- Christianity, Judaism, Buddhism, etc. in other religions
- Differences or similarities between concepts of civilization,
- Differences or similarities to the concepts seen in religions can be examined in detail.

REFERENCES

Aksoy, E. 1975. Design Transmission and Auditing in Architecture, KTÜ Publications, İstanbul.

Aydınlı, S. 1993. Aesthetic Values in Architecture, First Edition, ITU Faculty of Architecture Printing Studio, Istanbul.

Aykan, R. 2002. Alfabetical Qur'an Fihristi according to words and themes, (İstanbul: Pınar Publications).

Çakıroğlu, B. 2006. Reflections of the basic concepts of Islamic religion on the religious architecture of the Ottoman period (13th-17th centuries), Ph.D. thesis, KTÜ Institute of Science and Technology, Trabzon.

Çam, N. 1997. Art in Islam Islam in Art, Second Edition, Akçağ publishing, Ankara.

Cansever, T.1997. City and Architecture in Islam, İz publishing, İstanbul, 1997.

Ching, F. D. K. 2002. Architecture, Form, Place and Order, Lökçe S., Yem Publications, İstanbul.

Çolak, A. 2004. Walls, Semantic and Syntactic Analysis, Ph.D. Thesis, K.T.Ü. Institute of Science, Haziran.

Divanlıoğlu, D. H. 1997. Basic Design Elements and Principles, Birsen Yayınevi, İstanbul.

Erkman, F. 1987. Introduction to Semiotics, First Edition, Alan Publishing.

Ertürk, E. 1984. An Experimental Study on the Perception of Architectural Space, (Trabzon: Karadeniz University Printing House).

Faruki R., and Faruki, L. 1999. Islamic Culture Atlas, Kibaroğlu M. O. and Kibaroğlu Z., Third Edition, İnkılap Publications, İstanbul.

Graves, M. 1951. The Art of Color and Design, McGraw-Hill Book Company, Inc., New York.

Guiraud, P. 1994. Semantics, Yalçın M., Second Edition, İmge Kitabevi, Ankara.

Güngör, İ. H. 1983. Basic Design, Second Printing, Afa Printing, İstanbul.

Gürer, L. and Gürer, G. 2004. Basic design, Birsen Publishing, Istanbul.

Kuban, D. 1989. Concepts of Architecture, First Edition, Feed Publications, İstanbul.

Michelson, M. 1975. Behavioural Research Methods İn Envireonmental Design, (Pennsylvania: Halsted Press).

Özek, V. 1983. Determination of Indicator and Threshold Stage in Architecture, Doctorate Thesis, KT.Ü. Faculty of Architecture and Architecture, Trabzon.

Öztürk,Y.N. 1991. Basic Concepts of the Qur'an, (Istanbul: New Dimension).

Parlatır, İ., Zülfikar, H. and Gözaydın, N. 1994. School Dictionary, Turkish Language Institute Publications, Ankara.

Rahman, F. 1999. Main Subjects: The Qur'an, (Ankara: Ankara School Publications).

Rasmussen, S., E. 1994. Living Architecture, First Edition, Remzi Bookstore.

Tavşan, C. 2000. A Research on a Method for Architectural Form Analysis: Application of Modern Architecture Movements in the Last Period Museum Constructions, Doctorate Thesis, Institute of Science and Technology, Trabzon.

Topaloğlu, B., Yavuz, Y. Ş. and Çelebi, İ. 2002. Essentials of Faith in Islam, Third Edition, Çamlıca Publications, Istanbul, 2002.

Ünal, A. 1986. Basic Concepts in the Qur'an, (Istanbul: Beyan Publications).

Uraz, U. 1993. Design Thinking Formatting, ITU Faculty of Architecture, Printing Studio,İstanbul.

Venturi, R. 1991. Complexity and Contradiction in Architecture, First Edition, Şevki Vanlı Mimarlık Vakfı, Istanbul.

Yörükan, Y. Z. 1998. Islamic Verses and Qur'an Verses from the Book of Karim, Islamic Principles, 1st Edition, T.C. Ministry of Culture Publications, Ankara.

Yücel, A. 1981. On Islamic Architecture, Architecture, 5, p. 4-6.

Yücel, T. 2001. General Semiotics, Semantics Discussions, Multilingual Broadcast, S (9-14), İstanbul.

****