Explanation of Sustainable Architectural Design Motivators with Respect to the Concepts of Sustainability

Original Article, D13

Kazemi M, Akbarian M.


ABSTRACT: For more than half a century, the concepts of sustainability has appeared in developed countries with holding several publications and conferences. In recent years, the concepts of sustainability has been studied in the developing world. In this study, the concepts of sustainability are explained and their potentials and defeat are analyzed in order to use its advantage and avoid its defeats.
Patterns Retrieved from Islamic Wisdom in Iranian Islamic Architecture; Case Study Amir Flint of Yazd
**Original Article, D14**

Parhizkari Z.


**ABSTRACT:** Various aspects of Iranian art, including architecture principles are the same in structure, Iranian Architecture, Islamic architecture,Â Islamic architecture philosophy, Yazd.

**Keywords:** Contemporary Architecture, Iranian Architecture, Islamic architecture, Islamic architecture philosophy, Yazd.

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**Original Article, D15**

Feizi Z, Hosseinpour M.


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**Evaluating and Ranking Degree of Development in the counties of Kurdistan Province by Using Morris Quantitative Indicator**
ABSTRACT: Due to the necessity of integrated regional development, dependency analysis of human settlements in Iran has been conducted. The results show that Bijar and Sanandaj Counties are in the first and second ranks and other counties are in the following ranks.

Keywords: Development, Kurdistan, Morris Index.

The New Attention to Atrium for Creating Sustainable Townscape
**ABSTRACT:** Townscape that is part of the city supervisory to get and understands it, in the other hand the layer of the city in the atrium how to achieve it, and finally review the sample managed atrium application to improve the townscape quality.

**Keywords:** Townscape, Atrium, Urban Space, Public Space, Sustainable Approach.
ABSTRACT:

Regarding that constructing intelligent houses can meet a great part of users' needs, it is necessary to study parameters that have a great impact on this trend. In this regard, parameters such as Mental frame, Parametric architecture, Physical frame, and Physical frame are some of the factors that can affect users' needs to some extent in short times for designers. This research is followed in analytical-descriptive way and by library studies.

Keywords: Intelligent buildings, Mental frame, Parametric architecture, Physical frame.

ABSTRACT:

Spread of urbanization lead to increasing the environmental problems for urban residents that it hasn't agreement with sustainable development in the urban centers. This study is an attempt to assess, rank, and classify the environmental problems in the urban centers of Yazd province and get to the urban sustainable development.

Keywords: Environment, Sustainable Development, Pollution, Waste Waters, Cities of Yazd Province.

ABSTRACT:

Housing is one of the first things that humans have always had to grapple with and always trying to find appropriate and sustainable structure for it. This research is an attempt to study the number of residential buildings in the urban centers of Tehran metropolitan area during the years 1986 to 2006 and the peak is year 1996. This research may be used as a valuable index for urban urbanists and urban planners.

Key words: Metropolitan Area, Sustainability, Residential Buildings, Building Strength, Assess the Degree of Development.

ABSTRACT:

Ecological Design Process, the Way toward Improve Modern Sustainable Architectural Design

[Diagram of ecological design process]
ABSTRACT:

Nowadays the main question of designers is about the consequences of their activities on the natural environment. How do their activities affect the environment? How can they create a balance between the建成物 and the environment? What does the natural environment ask from us? How can we achieve harmony between the constructed object and the natural environment? These are the questions that designers are always looking for answers to. In this regard, the focus of design was presented in form of a table to make the designer to be capable to the accurate and classified design.

Keywords: Ecology, Built Environment, Sustainable Architecture, Ecological Design.

ABSTRACT:

Yazd traditional houses are valuable and precious inheritance from our ancestors; therefore, some actions such as modifying the body of the building in the least possible way or creating the necessary changes in the physical conditions of the building are required. This study was a research on the thermal behavior of the wind catcher room in the Rasoulian House in Yazd. After the evaluation of the wind catcher, the researchers proposed some methods for improving its performance.

Keywords: The Wind Catcher, Thermal Comfort, Natural Ventilation, Solar Vent Hole.

ABSTRACT:

Our ancestors were attention to nature and to preserve the purity and sanctity of it. This is particularly has been true in the use of the quadruplet elements when we are talking about sustainable architecture. Using these elements is the entity that the best possible use is made of the dominant element in any area or in other words the importance of ecology.

Keywords: Quadruplet Elements, Ecology Architecture, Swot, Renewable Energy, Sustainable Architecture.

ABSTRACT:

Studying the significance and effect of parks and green areas on improving the citizens’ life and embellishing urban spaces based on the seeking-escaping theory (Case study: Shiraz Parks).
Amirsheakri S, Amirsheakri S, & O. (2014). ABSTRACT: The increasing growth of population as well as the complexity of urban issues, lack of appropriate financial and human resources, and especially the growing tiredness, running away from routine, and etc and these spaces have significant effect on embellishing urban spaces. Keywords: Park, Green Area; Improving Life; Embellishing City; Seeking-Escaping Theory

Dehghanpoor A. R., Mahmoodi Nia M., & Rezaie H. (2014). ABSTRACT: The quick growth of the population of the country and the subsequent growth in urban development cause an increase in the rate of personal vehicles and subsequently a rise in intra-town trips. Keywords: Information and Communication Technology, intra-town trips, electronic payments, Yazd Township

Fallah Manshadi E., Rouhi A., & Khodaverdi Nelkhasi Om-S. (2014). ABSTRACT: Though the experience of pedestrian establishing in the world backs to 70 years ago, this is a new approach in Iran. In this paper, the factors affecting pedestrian satisfaction are evaluated and the public participation in decision-making procedures is considered. Keywords: Pedestrian Zone, Evaluation, Comparative Comparison, Tehran

Dehghanpoor A. R., Mahmoodi Nia M., & Rezaie H. (2014). ABSTRACT: Today towns are regarded as efficient elements in economical development of countries. Towns have various capabilities and potentialities which make them suitable for development and consequently facilitate the identification of the area and subsequently, to constant development. Keywords: Tourism, Information and Communication Technology, Entrepreneurship, Economic Development, Abarkouh
Assessment of Less Developed Neighborhoods to Earthquake Risk (A Case Study of Qaradiyan Neighborhood of Sanandaj City)

Habibi K, Tavallaei R, Azami M.


ABSTRACT:

Earthquakes are known as a recurrent phenomenon during history. In most cases, they have destructive effects on human activities and safety of the people. Earthquakes in urban areas are more destructive than the rural areas. One of the main reasons is the low resistance of the structure and the arrangement of the building. Also, the high proportion of the population in urban areas and long urban spaces, durable buildings and their low resistance of structure to earthquakes are some of the features of this district.

Keywords:

Urban Sustainability, Vulnerability, Crisis Management, Fuzzy model

Sustainable Urban Development and Issues Dominating Design of Bike Lanes (Focusing Hamedan of Iran)

Rismanian M., Habibvand N.


ABSTRACT:

Nowadays with the increasing importance of issues such as sustainable development, and green transportation, using bike lanes as a new and low-cost solution for urban sustainability is considered. In this regard, this paper focuses on the design of bike lanes in the Boulevard of Eram Hamedan, while investigating obstacles and problems of design and management of bike paths in Boulevard Eram Hamedan.

Keywords:

Transportation Environment, Design Requirements, Comfortable And Easy Path, Standard, Path Continuity

Learning from European Capitals of Culture Program in Developing Urban Tourism

Jalalian Hosseini SM, Pourjafar MR, Ranjbar E.


ABSTRACT:

Cultural potential in today's urban design literature is considered as an efficient tool in urban regenerating and promoting urban tourism. It is also known as an efficient tool in development of urban tourism in Iran, as well as many other countries. It is believed that one of the main factors which has contributed to the promotion of cultural tourism in Europe is the organization of the Cultural Program in Europe. Hence, as the urban tourism is considered as an efficient tool in sustainable urban development, it is essential to learn from Europe's experiences in this field.

Keywords:

Capital of Culture Program; Europe's Experiences; Urban Tourism

Converting the Village to City and Sustainable Urban Development (A Case of Fars Province - Iran)

Omidi S, Khatoon Abadi A, Ebrahimi MS.


ABSTRACT:

In the recent years, increase in urban centers by promoting the big and susceptible villages is considered as one of the main factors of this phenomenon. In addition, the increase in tax costs, reduction in pasture land and difficulty of keeping livestock in the city limits are considered as the main consequences of this phenomenon.

Keywords:

City, Conversion, Policy, Rurban, Village.
The Influence of Material Properties and the Geometrical Parameters of the Operating Arch on the Stability of Vaults

Valibeig N, Esmaeili M, Ansar A

ABSTRACT:

One of the key elements in architecture is vault. Because timbers are locally available only in certain parts of Iran, and wood is widely used as a load material, we studied the influence of material properties and the geometrical parameters of the operating arch on the stability of vaults. The aim of this study is to examine the effect of the geometrical parameters of the vault and the characteristics of the materials used on the stability of the vaults. The results showed that the stability of the vaults is significantly affected by the material properties and the geometrical parameters of the arch operating. The analysis clearly revealed the effective role of geometric parameters, materials and thickness of arch base in vault stability.

Keywords: Sustainable architecture; Stability; Generate arch; Geometry; Material.

Study of Talesh City Architectural Design Based on Regional Climate

Rezayi Banafsheh M, Nasiri Ghalebin S, Zarei J.

ABSTRACT:

Architecture climatology is a branch of applied climatology that affected human life. The structure of buildings in Talesh city are considered to be one of the traditional structures in Iran. In this study, the architectural design of Talesh city was evaluated based on regional climate. The climate data for the years from 1992 to 2012 were used. This data are taken from the Meteorological organization which related to the years of 1992 to 2012. By using a combination of visual and analytical techniques, the effects of climate on the architectural design and the comfort conditions were studied. The results showed that the architectural design of Talesh city is well adapted to its regional climate and provides comfortable living conditions.

Keywords: Climate, Architecture, Talesh, comfort, Mahoney.