

عنوان مقاله:

(Biomimicry in Architecture)(Potentials and challenges of biomimetic approaches in architecture)

محل انتشار:

دومین کنفرانس بین المللی هنر، معماری و کاربردها (سال: 1396)

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نویسنده:

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خلاصه مقاله:

Biomimicry, which means design based on nature, is a new research topic, especially in the field of architecture. In recent years, a large number of architectural proposals and built examples have been designed and implemented by inspiration from nature. In most cases, the focus was only on the shape, form and aesthetic aspects of nature rather than its functional performances. The most important issue according to using biomimicry in architecture is lack of a comprehensive understanding about the aims, levels, potentials and also challenges of design based on nature s solutions among designers. By considering these restrictions, the main goal of the current research is to analyze the potentials and challenges of deign based on nature s strategies by clarifying the disciplines, benefits and obstacles of this type of approach in architecture. There are many benefits for employment of natural solutions in architectural designs that the most important advantage is increasing the level of sustainability by devel-oping more environmentally efficient designs. However, there are some limitations and challenges against the employment of biomimicry in architecture, such as lack of a defined design method of ap-proach, which need to be addressed by designers

کلمات کلیدی:

biomimicry, nature, architecture, potentials, challenges

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