

Biomimicry as an innovation in modern Architecture Design

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Abstract

Biomimicry is a design concept mimicking the nature, as an established sustainable system, as a mentor and a great source of inspiration through observing its models, systems, and processes, could help in reaching sustainable development, not only in environmental stewardship, but also in economical and social aspects as well. As a method for sustainability biomimicry constitutes the ability to help achieve sustainable development.

Biomimicry can be defined as imitating or getting inspiration from the nature's structures and processes to find solution for human's problems. It is a new concept in architecture. Biomimicry can be considered as a multi- level method and a methodology of design which had underlying basics about learning from the nature and getting inspiration from it.

Problem of this research is that the implications of Biomimicry method in architecture design had not been fully explored. This paper aims to incorporate this method into the idea of generation phase of the architecture design and development process within the context of design. The purpose of this paper is to introduce and create interest by the designers in the ideology of biomimicry that refers to sustainability by looking to the nature for answers because such a method brings into view a method for design taking into consideration the possibility of creating buildings inspired by the nature.

Key words: Biomimicry, Bio-inspired design, Biomimetic Architecture