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Analyzing of Kinetic and Biomimetic Design Approaches by Examples

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Abstract- Today, "kinetic" and "biomimetic" approaches are used as a design strategy in the discipline of architecture which has become an interdisciplinary field. They are used in building construction which known as the "biomimetic" approaches, which take the principle of conscious mimicry of nature and which are located at the intersection of biology and architecture and the known as "kinetic" architectural approaches which having the movable whole structure or the elements of building.These design approaches aim to produce solutions that can meet the needs of people at the optimum level. In this context, 'biomimetic and kinetic' design approaches in the study were aimed to be investigated in terms of their use in architecture after being based on literature. In scope, the purposes of kinetics and biomimetic design strategies in architecture are discussed. In the method, 3 architectural structures using only kinetic approach and 3 non-kinetic architectural structures using biomemic were investigated, and biomimetic properties of structures in terms of mechanism type and design approach were compared and evaluated with the obtained table. As a result, the advantages to be achieved by using these approaches together are put forward and it is predicted that architects should be informed by these new design methods for the designs to be made in the coming periods

Keywords- Biomimicry, Kinetic, Design Approaches, Architecture.