

Enhancing Educational Environments: Maximizing School Playground Potential Through Biophilic Design

Authors : Esraa Abdel-Salam, Tarek Farghaly, Hassan Abdel-Salam, Asmaa Hasan

Abstract : Increasing evidence indicates that the growing disconnect between humans and the natural environment, propelled by technological advancements, has had adverse impacts on human health and overall well-being. Therefore, bridging the gap between humans and nature, the biophilia hypothesis emerges as a relatively theoretical and less comprehensively studied concept, though it has great potential for alternative design ideas. The research aims to enhance school playgrounds with biophilic design, positively impacting children's mental and physical well-being. This paper investigates the integration of biophilic design in school playgrounds and its influence on the well-being of children. It involves an analysis of three playgrounds in Alexandria, Egypt, each exhibiting varying degrees of biophilic design principles. The study investigates how these design elements enhance students' experiences by improving their surrounding environments. The research aims to develop a design framework and recommendations for creating or modifying playgrounds to enhance the physical and mental well-being of children.

Keywords : biophilic design, physical health, mental well-being, children's development, school playground

Conference Title : ICALAD 2024 : International Conference on Architecture, Landscape Assessment and Design

Conference Location : Paris, France

Conference Dates : December 30-31, 2024