

## Textile printing design between phenomenological theory and biophilic thought

**Shaimaa Sayed Kassem Khedr**

Lecturer at Department of Textile Printing, Dyeing and Finishing, Faculty of Applied Arts / Helwan University, ShaimaaSayed\_48@a-arts.helwan.edu.eg□

### Abstract:

Biophilic design positively affects the physical, psychological, and spiritual health of individuals. If a design does not consider all aspects of nature that influence human health and the ability to thrive, it cannot be considered biophilic design. This design approach possesses features and advantages, including its emphasis on engaging with the broader environment rather than isolating oneself from nature, where all living organisms exist in interconnected ecosystems. Biophilic design is motivated by its foundational philosophy and patterns, positing that the user's connection to nature is rooted in physical phenomena, coexistence, and reciprocal influence. This connection significantly enhances the user's well-being, impacting both psychological aspects and physical health. The research also addresses several challenges, including how to adapt biophilic design to improve human health and facilitate integration with nature, particularly within the context of textile printing design. It reviews the conditions of biophilic design and its applications in addressing design-related issues. The research employs a descriptive and deductive approach to define the concepts of phenomenological theory and biophilic design, exploring their relationship with human mental health. It adopts an applied experimental methodology that emphasizes sensory and visual elements, aiming to enhance the functional performance of textile printing design through contemporary methods. This approach incorporates diverse elements and color palettes inspired by nature, aiming to balance form, color, and function to mitigate negative impacts on human health and foster positive energy that supports the efficient execution of vital functions.

**Research problem:** How can we benefit from phenomenological theory and biophilic design, and how can their integration improve psychological well-being and physical health for individuals, while also enhancing the connection between the surrounding internal environment and humans? How can we address and adapt the artistic elements and compositional units within textile design to create design treatments that positively impact human health?

**Research Objectives:** The research aims to: Develop new concepts related to phenomenological theory in textile printing design that are based on biophilic principles, establishing a complete connection between humans and their environment. Present and analyze biophilic design patterns and their role in enhancing human health by exploring new structural approaches that enrich printed design in the field of textile applications. Utilize the artistic capabilities of specific computer software to achieve innovative and unconventional design solutions, enhancing the aesthetic dimension of printed designs.

**Importance of Research:** To present a new perspective on the relationship between phenomenological theory and biophilic design and their roles in enhancing human health, leveraging the outcomes of modern technological advancements. This study contributes to enriching the field of design in general, with a particular focus on the structural elements of textile printing design. The research emphasizes the relationship between biophilic design—as a significant design approach—and phenomenological theory, one of the philosophical theories that emerged in the early twentieth century. To elucidate the aspects of biophilic design and its role in improving human health by exploring new structural approaches that enrich printed designs within the realm of textile printing.

**Research Limitations:** Temporal Limitations: The research reviews phenomenological theory and biophilic design from the early twentieth century to the present. Spatial Limitations: The application is focused on the Arab Republic of Egypt in general, with a specific emphasis on wellness resorts. Thematic Limitations: The study presents a new approach to utilizing phenomenological theory and

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biophilic design in textile printing design to achieve balance and mitigate negative impacts on human health.

**Research Methodology:** The research follows a descriptive, deductive, and applied experimental methodology, incorporating a theoretical framework based on the researcher's personal experience. Descriptive Methodology: This approach is used to define the concepts of phenomenological theory and biophilic design, examining their relationship with the impact on human mental health. Deductive Methodology: The study employs tools from the deductive approach to assess the effects of phenomenological theory and biophilic design on textile printing design. Applied Experimental Methodology: This methodology is utilized through the researcher's personal experiential insights.

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