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Robotecture and Artificial Intelligence (AI) Technology and its Impact on the Creativity Process in Interior Spaces

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Abstract:

Throughout history, new technologies have emerged that have reshaped our built environment and that of society. In recent years, many interactive concepts have been invented. These concepts could adapt and interact with the surrounding environment and its derivatives, which include Light, sound, wind energy, heat or with people by changing their condition without the need for any human intervention, this is called architecture of robotics "Robotecture". Where the world witnessed an unprecedented revolution in the fields of digital technology development and its applications and adapting it to draw new languages and vocabulary for architectural formation and interior design, as these languages and these emerging vocabulary for formation varied and multiplied between the use of deconstructive shapes, basic geometric spatial shapes, organic shapes, or hybrid shapes of all kinds and other forms. Architectural trends, such as the trend towards new modernity, imaginary / virtual architecture, and last but not least, Robotecture, "kinetic smart architecture", which are trends that could not have been developed and pushed in their direction had it not been for progress in the fields of digital technologies and their applications in the field of architecture and interior design. Robotecture is a term used to describe the integration of robotic technology into the design and construction of buildings and other structures. This can include the use of robots for tasks such as construction, maintenance, and inspection, as well as the incorporation of robotics into the design and function of the building itself. The goal of robotecture is to increase efficiency, reduce costs, and improve the overall quality of the building. One of the most significant impacts has been in the realm of building automation. Using sensors, artificial intelligence, and machine learning algorithms, buildings can now monitor and adjust their internal environments in real-time. For example, a building's lighting and temperature can be automatically adjusted based on occupancy and usage patterns, optimizing energy usage, and improving user comfort. Robotecture and artificial intelligence (AI) are revolutionizing the field of interior design, and their impact on the creativity process is significant. Robotic and AI technologies allows interior designers to automate many of the repetitive and time-consuming tasks associated with the design process, freeing up time and energy for more creative work.

Keywords:

Technology - Digital technology- Robotecture - artificial intelligence- programming- automation- interactive digital design-smart material- Design creativity- Creative Designer- Creative Design Situation- Robotic smart materials- Design you edit-Digital design approaches

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