

عنوان مقاله:

Artificial Intelligence and Its Impact on Architectural Design : A Review and Future Prospects

محل انتشار:

سومین کنفرانس بین المللی معماری، عمران، شهرسازی، محیط زیست و افق های هنر اسلامی در بیانیه گام دوم انقلاب (سال: 1402)

تعداد صفحات اصل مقاله: 20

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خلاصه مقاله:

The study provides a comprehensive review of the intersection between Artificial Intelligence (AI) and Architectural Design. It outlines the significance of the subject matter, the historical and contemporary relevance of AI, its evolution, and how these have impacted architectural design. It explores the influence of AI on the design process, outcomes, the role of architects, and the ethical implications. The review further presents a careful analysis of selected case studies showcasing the application of AI in architectural design. It culminates in a discussion on the emerging trends, potential advancements, opportunities, challenges, and limitations that may impact the future of AI in architectural design. Recommendations for future research in this field have also been discussed.

کلمات کلیدی:

Artificial Intelligence, Architectural Design, Generative Design, Predictive Modeling, Automation, Sustainability, Structural Optimization, Ethical Implications, Case Studies, Future Prospects, Challenges, Limitations, Future Research

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