

عنوان مقاله:

Artificial Intelligence in Civil Engineering

محل انتشار:

نهمین کنگره سالانه بین المللی عمران، معماری و توسعه شهری (سال: 1402)

تعداد صفحات اصل مقاله: 15

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خلاصه مقاله:

Artificial Intelligence (AI) is revolutionizing various industries, and civil engineering is no exception. This paper explores the application of AI in civil engineering, showcasing its potential to transform the way infrastructure is designed, constructed, operated, and maintained. The study delves into the key areas where AI is making a significant impact, including structural analysis and design, automation, structure health monitoring and intelligent transportation systems. Furthermore, the paper discusses the benefits and challenges associated with integrating AI into civil engineering practices. Through case studies and examples, it becomes evident that AI has the potential to enhance efficiency, safety, sustainability, and resilience in the field of civil engineering.

کلمات کلیدی:

Artificial Intelligence, Machine Learning, Transportation, Automation

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<https://civilica.com/doc/1952403>

