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Paper ID: 58

Paper Title: Smart Concrete Technologies for Next-Generation Roadways

Abstract:

The development of roadway systems is increasingly shaped by the integration of advanced materials, with smart concrete crucial role. This paper examines the potential of smart concrete to transform next-generation roadways through the inc self-healing, and energy-harvesting features. These cutting-edge technologies not only improve the structural integrity infrastructure but also enable real-time monitoring and maintenance, thus minimizing the need for expensive repairs and Additionally, smart concrete can enhance traffic safety and efficiency by supporting more responsive and adaptive infra surveys recent advancements in smart concrete materials, explores their practical applications in transportation engine challenges and opportunities involved in their adoption. Through a blend of theoretical analysis and case studies, the detailed overview of how smart concrete technologies can pave the way for more sustainable, durable, and intelligent ro

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