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TITLE OF PROJECT: **Development of crack detection techniques in concrete structures by using IoT**

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ABSTRACT (150-300 words):

This study focuses on the development of advanced crack detection techniques in concrete structures by leveraging Internet of Things (IoT) technology. The research aims to enhance the timely maintenance of infrastructure by implementing real-time monitoring and data analytics to identify and assess cracks. The IoT based approach offers a proactive and efficient solution to ensure the structural integrity of concrete constructions, ultimately contributing to increased safety and longevity.

The development of crack detection techniques in concrete structures using IoT for timely maintenance represents a significant advancement in the field of infrastructure management and structural integrity. In an era where urbanization is on the rise, ensuring the longevity and safety of concrete structures is paramount. This innovative approach leverages the power of the Internet of Things (IoT) to revolutionize how we monitor and address cracks in concrete, enabling proactive maintenance and ultimately enhancing the durability and safety of our built environment. In this discussion, we will explore the key components, benefits, and implications of employing IoT-based crack detection techniques in concrete structures.

KEYWORDS:

Concrete structures, Internet of Things (IoT) technology, Data analytics, Structural integrity, Timely maintenance, Infrastructure management, Structural longevity, Safety, Durability, Built environment, IoT-based crack detection

CATEGORY: Concrete Technology and Building Materials