

Systematic Review

# A Systematic Review of Automated Construction Inspection and Progress Monitoring (ACIPM): Applications, Challenges, and Future Directions

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**Abstract:** Despite the subjective and error-prone nature of manual visual inspection procedures, this type of inspection is still a common process in most construction projects. However, Automated Construction Inspection and Progress Monitoring (ACIPM) has the potential to improve inspection processes. The objective of this paper is to examine the applications, challenges, and future directions of ACIPM in a systematic review. It explores various application areas of ACIPM in two domains of (a) transportation construction inspection, and (b) building construction inspection. The review identifies key ACIPM tools and techniques including Laser Scanning (LS), Uncrewed Aerial Systems (UAS), Robots, Radio Frequency Identification (RFID), Augmented Reality (AR), Virtual Reality (VR), Computer Vision (CV), Deep Learning, and Building Information Modeling (BIM). It also explores the challenges in implementing ACIPM, including limited generalization, data quality and validity, data integration, and real-time considerations. Studying legal implications and ethical and social impacts are among the future directions in ACIPM that are pinpointed in this paper. As the main contribution, this paper provides a comprehensive understanding of ACIPM for academic researchers and industry professionals.

**Keywords:** automated construction inspection; automated progress monitoring; automated inspection technologies; automation in construction; systematic literature review



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## 1. Introduction

Construction inspection is currently a task performed mostly by human inspectors through manual visual inspection procedures. In these traditional procedures, inspectors refer to a set of plans, specifications, manuals, and standards to check different elements' compliance with the criteria defined by these references. Depending on the type and size of the project, inspectors from different specialties of civil, electrical, and mechanical are involved in these manual inspections [1].

Despite the subjective and error-prone nature of these manual inspection procedures [2–6], this type of inspection is still the common process in most construction projects. However, in the last few decades, there have been attempts to utilize advancing tools and technologies for automating the inspection processes in construction projects. Automated techniques are also used for progress monitoring purposes to evaluate progress deviations.

Recent advancements in technology have significantly impacted the construction industry, particularly in the areas of inspection and progress monitoring. The integration of Automated Construction Inspection and Progress Monitoring (ACIPM) systems has emerged as a pivotal factor in enhancing efficiency, accuracy, and safety in construction projects. With the deployment of various tools such as Laser Scanning (LS), Uncrewed Aerial Systems (UAS), and Building Information Modeling (BIM), the industry is witnessing a paradigm shift from traditional manual inspection methods to more sophisticated, automated solutions. These technologies offer the potential to not only streamline the inspection process but also provide real-time data, facilitating active decision making.

# Systematic Construction Inspection

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