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(57) Abstract :
Smart RSSI Localization for Construction Accident Response for Person Identification and Health Monitoring System represents a critical advancement in ensuring the safety and wellbeing of workers in the construction industry. Leveraging the power of Receive Signal Strength Indicator (RSSI) technology, this system is designed to precisely locate and identify individuals within a construction site during emergencies or accidents. By analysing RSSI signal strength, the system accurately pinpoints the location of each worker, enabling efficient and timely rescue operations. Furthermore, the system integrates health monitoring capabilities, providing real-time insights into the well-being of workers. This includes monitoring vital signs, such as heart rate and respiratory level, ensuring early detection of distress signals and prompt medical intervention when needed. The amalgamation of person identification, localization, and health monitoring ensures a comprehensive safety net, enabling construction sites to respond swiftly and effectively in the event of an emergency. This innovation holds the potential to significantly reduce response times, minimize injury severity, and save lives within the construction sector.

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