
Smart evacuation indication system battery cabinet

What is a smart evacuation guidance system?

Licensee MDPI, Basel, Switzerland. 4.0/). Abstract: In large buildings, during the situation of fire or other hazards, a smart evacuation guidance system needs to fully consider manifold aspects of hazards to guide evacuees through exit gates as fast as possible by dynamic and safe routes.

How can a BIM-based smart evacuation guidance system help evacuees?

The system then used a machine learning algorithm to determine the safe routes for evacuees. Wehbe et al. presented a BIM-based smart evacuation guidance system for smart buildings which can detect fire early, collect and analyze the hazard condition based on sensor data, and guide evacuees to the exit with the optimal evacuation paths.

How do smart evacuation systems work?

There have been several techniques targeting the smart evacuation system. Dimakis et al. proposed a building evacuation system that computes the optimal evacuation routes in a real-time manner. The system used smart sensors to obtain physical length and hazard intensity, then used them to make a weighted graph.

Does a smart indicator reduce evacuation time?

Experimental results show that the proposed approach reduces up to 30% of the total evacuation time compared with others. Furthermore, through the results of initial smart indicator implementation, which can interact with the simulator, we show the viability of the proposed system. 1. Introduction

The emergent evacuation in large public places with dense population faces serious challenges, where the emergency evacuation indication system (EEIS) is a crucial system that ...

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