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(57) Abstract :
The present invention discloses a system (100) and a method (200) for detecting and for object tracking using identifier-tracker pairings. The system includes a set of sensors (102) capable of detecting the presence and location of multiple objects, a reader (104) for scanning a unique identifier associated with each object, and a processor (106) to execute tracking process. The unique identifier can be a barcode, QR code, or RFID tag, while the set of sensors (102) includes GPS, Wi-Fi, Bluetooth, RFID, and optical sensors. The processor receives the unique identifier for each object, activates one or more trackers (110) to generate real-time tracking information corresponding to the identifier, and compares the generated tracking data to generate alert signals. These alert signals are transmitted to a computing device (114), enabling real-time notification of tracking-related events. The generated tracking information includes object location, speed, direction, and other pertinent factors.

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