Abstract

To help travelers find their gate or luggage file is a pressing issue for airports. This article introduces an iBeacon based indoor airport positioning system. It first analyzes the advantages of iBeacon over traditional indoor positioning technologies; and then designs the airport indoor positioning system based on the three-tier Internet of Things architecture to provide courier service to customers. Finally, the shortest distance algorithm, Floyd, is used to recommend passengers the next boarding or baggage handling process. Experience has shown that indoor airspace positioning for airports can be achieved through the system.

References


**Index Terms**

Computer Science

Information Systems

**Keywords**

Indoor Positioning System, Floyd, iBeacons, Internet of Things, Low Power Bluetooth