Suitability of Indoor Positioning System for Smart City IoT Applications

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Abstract

Indoor Positioning is a substantial field of research which requires frequent revisions due to continual developments and various applications in the Smart-City environment. It has found its way into various applications because of the consistent requirement of increased positioning accuracy while maintaining the user privacy. This paper presents technological overview and comparison of indoor location systems for their suitability in Smart City applications. These systems are analyzed for their scalability, range, accuracy, storage requirements and privacy. The paper is fixated on indoor positioning systems that have high accuracy.

References

2. Smart City, https://www.techopedia.com/definition/31494/smart-city
16. FIND, https://github.com/schollz/find-lf

Index Terms

Computer Science

Information Sciences
Keywords

Internet of Things (IoT), Indoor Positioning (IP), Location Awareness, Cricket, Active Bat, Active Badge, Ubisense, FIND.