IoT: Networking Technologies and Research Challenges

Abstract

This paper gives insight into how IoT networking is a unique combination of wireless personal area networks, like 6LowPAN, Zig- Bee, and the IEEE 802.15.4 protocol, which runs the Medium Access Control and the physical layer operations for 6LoWPAN and ZigBee connectivity. In addition, this paper discusses about wireless LAN Wi-Fi technology, i.e. wireless local area network protocol and on a larger scale, mobile communication technology, such as LTE, that is used to provide connectivity to the internet, the wide area network. This paper focuses on how these technologies need to work together to provide IoT connectivity. It showcases important research challenges in said area.

References

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Index Terms

Computer Science

Networks
Keywords

IoT, PAN, Bluetooth, ZigBee, 6LoWPAN, Wi-Fi, WLAN, IEEE 802.15.4