Abstract

Internet of Things (IoT) is an ecosystem of connected physical devices and objects that are accessible through Internet. When the devices can represent themselves digitally they can be monitored, administered and controlled remotely. The proliferation of these devices creates a smart environment to have a plethora of applications. There is no doubt about these tiny devices as a transformation force that can help the companies in improving their operational efficiency through IoT analytics, and company can deliver better results. This paper focuses specifically on the essential technologies and application domain of IoT and the open issues which are to be addressed before to drive IoT application for the global acceptance. The analysis result indicates that by 2020 the technology generates a massive amount of data and revenue. Its impact will be felt across the entire big data universe forcing companies to upgrade their current tools and process and technologies to evolve to accommodate this additional data volume.

Index Terms

Computer Science

Security
Keywords

Machine-to-Machine, wireless sensor networks, RFID, Device-to-Device, Device-to-Server, Server-to-Server, Software defined storage, object storage, Data analytics, Big data.