In this paper, we describe the Internet of Things (IoT) which is a paradigm where things can have identifying, sensing, and processing features that will allow them to communicate with other devices over the Internet to perform the task. There are many challenges with software, hardware, and security in actual implementation of IoT. The traditional networking protocol and security services are not directly applied on IoT because of different communication stacks and various networking standards. So, there is need to find an efficient solution which deals with all the challenges in an environment of IoT. This paper presents various research challenges with their respective solutions by examining previous literature and identifying current trends. It also discusses future directions in the field of IoT.


Index Terms

Computer Science
Information Sciences

Keywords

IoT, RFID, Sensor Networks, Sensors