

Internet of Things

ABSTRACT

Over the years Internet has revolutionised the way we live our lives. After the Internet of computers now comes Internet of Things (IoT). The Internet of Things is a computing concept that describes a future where everyday physical objects will be connected to the Internet and be able to identify themselves to other devices. These objects contain embedded technology to interact with internal states or the external environment. In other words, when objects can sense and communicate, it changes how and where decisions are made, and who makes them. IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems (MEMS) and the Internet. When an object can represent itself digitally, it can be controlled from anywhere. This connectivity means more data, gathered from more places, with more ways to increase efficiency and improve safety and security. Due to the heterogeneity and limited computation capability of the physical objects there are various challenges to be handled in IoT:

1. Computing, Communication and Identification Technologies for the objects.
2. Distributed Systems Technology.
3. Distributed Intelligence.
4. Security Issues.
5. Data Management Issues.
6. Heterogeneity of objects.

With the help of the internet infrastructure and mobile networks IoT can make the idea of a “smart planet” a dream come true. But for this to happen the challenges involved must be taken care of and various new developments are need to be done.

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