Abstract

There is no suspicion that IoT has added a new dimension to the living being by the link between smart objects. Thus making the link among any media and anything at any place and anytime was appreciable. Under the umbrella of the Internet of Things (IoT) the number of interconnected devices is expected to grow exponentially toward more than 34 billion devices until 2021. IoT will propose the unique identification of the objects and their virtual representation as the basis for autonomously development of applications and services. These will be characterized by enormous and self-governing data capture, incident transfer, network connectivity and interoperability. This technology has a lot of applications in heterogeneous fields. The IoT technology and applications are likely to be major drivers of investment and innovation in the communications sector, over the forthcoming years, delivering the valued advantage to citizens, client and industrial end-users. These will lead to the introduction of many new and modern services. It will permit data to be transmitted between many various types of devices, enhance the safety of transportation, and decrease the consumption of energy and
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enhance our health. In this paper, we are briefly discussing about the Internet of Things and applications in several fields. The IoT applications are using at the edge of the network sensors accumulate data on a computing and communicating device and actuators to perform distinguished tasks controlled by these devices.

References


13. Tomas Gea, Josep Paradells, Mariano Lamarca, David Roldán,” Smart Cities as an
Application of Internet of Things: Experiences and Lessons Learnt in Barcelona”, Seventh International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing, IEEE, Taichung, Taiwan, July 2013


29. Kabalci Ersan, Alper Gorgun, Yasin Kabalci, "Design and implementation of a renewable energy monitoring system", Power Engineering Energy and Electrical Drives (POWERENG)


42. Yusuf Perwej, "A Literature Review of the Human Body as a Communication Medium using RedTacton” Communications on Applied Electronics (CAE), ISSN : 2394-4714, Foundation of Computer Science FCS, New York, USA, Volume 9, No.4, Pages 7 – 17, April 2016, DOI: 10.5120/cae2016652161


55. Benjamin Yee Shing Li ; Lam Fat Yeung ; Kim Fung Tsang,” Analysing traffic condition based on IoT technique”, IEEE International Conference on Consumer Electronics - China, IEEE, Shenzhen, China, April 2014

56. Zhuming Bi ; Li Da Xu ; Chengen Wang,” Internet of Things for Enterprise Systems of Modern Manufacturing “, IEEE Transactions on Industrial Informatics, Volume: 10, Issue: 2, PP 1537 – 1546, May 2014

Index Terms

Computer Science

Distributed Systems

Keywords

IoT Smart Cities, Industrial Internet of Things (IIoT), IoT Health Care, IoT Smart Homes, IoT Platform, Energy Internet of Things (EIoT).