Internet of Things (IoT) based Smart Environment integrating various Business Applications

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Abstract

Internet of Things (IoT) plays a vital role in Next Generation Networks. Ample number of research works in IoT is carried out in developing countries like India. Research and Development units of industries are working on connecting tiny devices and objects to infer and to measure environmental and ecological resources. Domestic applications are also in line with this research. This paper proposes an integrated smart environment based on IoT. Several sectors like agriculture, security and emergency, banking, Surveillances, meteorology, health care, education, government – e services, domestic appliances monitoring, traffic surveillance are integrated and the various objects and devices are connected using RFID technology. This paper also deals with how various sectors are connected by means of RFID technology and sensor networks. It also brings forth an idea of establishing IoT information Kendra which infers and processes the data extracted by the various sectors in the smart environment. Functioning of a cloud application based computing and data centre and an administration and management centre attached to IoT information Kendra is also discussed.
References


Index Terms
Computer Science Information Sciences

Keywords
Internet of Things (IoT), RFID, IoT Information Kendra, Smart Environment.