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AN ACTUATOR SENSOR NODE PROTOTYPE FOR INTERNET OF THINGS APPLICATIONS

Ismail Kirbas

ismailkirbas@mehmetakif.edu.tr

Internet of Things (IoT) systems are realized through data sharing system on the internet in order to ensure the needs of people from interacting with the objects that are connected to the Internet. The rapid development of the Internet and internet connected objects have become hot research topics for both academic and industrial researchers. Today's IoT devices can detect the needs of the users and communicate each other thanks to the integration with the Internet to meet the users' necessities.

The basic idea of this concept is to make objects interact with each other using a unique addressing systems. For example, Radio Frequency Identification (RFID) technology using mobile phones, sensors, tags and so on. This is a collaboration of the objects to reach a common goal. "Internet of Things" that can communicate with each other using different communication protocols, objects capable of exchanging data among themselves (devices) can be defined as a community. "Object" is defined as the sensor element, cameras, phones, cars, clocks, refrigerator, curtains, boilers, etc. In this presentation we offer a new actuator sensor node prototype to accomplish secure communication over internet for IoT requirements.

Keywords: internet of things, actuator, sensor node design, secure communication