

Internet of Things point-to-base station communication experiment

What is Internet of Things (IoT)?

Abstract: Nowadays, Internet of Things (IoT) has multiple applications in different fields. This concept allows physical devices to connect to the internet in order to establish a strong infrastructure that facilitates many device control and monitoring tasks.

How is the Internet of things transforming society?

Abstract--The Internet of things (IoT) is transforming the whole of society. It represents the next evolution of the Internet and will significantly improve the ability to gather and analyze data, as well as the ability to control devices remotely.

What is IoT & how does it affect telecommunication?

In other words, the IoT is the communication between smart machines over a single large-scale network. The IoT is revolutionizing the world of telecommunication by bridging diverse technologies, enabling new applications and connecting billions of objects.

What search spaces are used in NB-IoT?

In 3GPP Release 13, three search spaces were defined for the NB-IoT system: Type 1 common search space, Type 2 common search space and UE-specific search space. Depending on the type of control information to be transmitted, the eNB uses one of these search spaces.

Internet of Things (IoT) consists of an enormous number of devices and networks. The IoT's principal parameters are energy consumption, network lifetime, processing capacity, data ...

I. INTRODUCTION The Internet of things (IoT) represents the concept of interaction and communication between objects from diverse environments with the purpose to collect, process and ...

1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...

Nowadays, Internet of Things (IoT) has multiple applications in different fields. This concept allows physical devices to connect to the internet in order to establish a strong infrastructure ...

The developed system collects environmental data of wireless communication base station using several sensors, analyzes the collected data using particle filters, and controls the remotely ...

Therefore, placing base stations (BSs) is economically challenging. Drone-based stations can efficiently address Next-generation Internet-of-Things requirements while accelerating growth and expansion. ...

Star Topology in IoT Networks: How Sensor Devices Connect to Gateways and Base Stations The Internet of Things (IoT) is growing rapidly, creating the need for strong, scalable, and ...

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Abstract--We present a Hierarchical Actor-Critic (HAC) reinforcement-learning framework for adaptive drone-assisted Internet of Things (IoT) communications. The framework jointly optimizes ...

In this article, we present a comprehensive overview of HIBS - High Altitude Platform Stations as IMT Base Stations. We lay out possible use cases and summarize the current status of ...

Experiments on WPT Feedback Control in WPT and Communication System Based on Base Station Conference Paper May 2024 Yuta Nakamoto Naoki Hasegawa Takashi Hirakawa ...

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