

Scientists at Tokyo Institute of Technology (Tokyo Tech) have developed a wirelessly powered relay network for 5G systems. The proposed battery-free communication addresses the ...

In order to meet diverse 5G requirements under various deployment scenarios, mobile relays can be useful to provide enhanced user experience to the onboard passengers in, for example, trains and ...

This chapter provides an in-depth review of the relay technology that is being considered for future 5G networks. The article first introduces and compares different relay types that use LTE-A ...

Abstract--In the 5G and beyond era, the Internet of Things (IoT) requires widespread coverage in highly dense and hard-to-reach areas. To achieve this, the use of relaying as an energy-efficient mechanism ...

In this paper, we evaluate the standardized 5G NR single-hop L3 U2N relays, with a focus on how various 3GPP-compliant, NR SL parameters and features, such as the numerology, sensing-based ...

A layer 2 relay, called a decode and forward relay, can eliminate noise signals and perform radio resource management functions better than a layer 1 relay; a better throughput-enhancement effect ...

The proposed wirelessly-powered relay is meant to act as an intermediary receiver and transmitter of 5G signals, which can originate from a 5G base station or wireless devices.

Hence, in this column, focusing on realistic 5G high-mobility deployment scenarios, we provide a brief background and motivation for mobile relay and investigate potential technical ...

A recently developed wirelessly powered 5G relay could accelerate the development of smart factories, report scientists from Tokyo Tech.

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