

Base station and user communication process

The base transceiver station (BTS) is responsible for handling the initial protocols from the mobile station, with the call routed directly to the BTS when a user initiates communication.

These functions imply a global decision-making process, whereby it's possible to forward traffic to a different base station (or to multiple base stations) in an effort to make efficient use of the radio ...

While a mobile phone is only responsible for its user's data transmission and reception, a base station is capable to handle the calls of several subscribers simultaneously.

When a wireless device, such as a mobile phone, communicates with a base station, the device sends a signal to the base station, which converts the signal into digital form and sends it to ...

This paper proposes a new base station (BS) architecture employing multiple MAs for improving the multiuser network performance. First, the uplink multiple access channel (MAC) is modeled to ...

A base station is a fixed communication infrastructure that connects mobile devices (such as smartphones, tablets, or IoT devices) to a network, enabling wireless communication.

A base station is an integral component of wireless communication networks, serving as a central point that manages the transmission and reception of signals between cellular networks ...

Base stations form a key part of modern wireless communication networks because they offer some crucial advantages, such as wide coverage, continuous communications and an array of ...

A cellular network is composed of a web of base stations, each covering a delimited area (cell) and routing communications in the form of radio waves to and from users' terminals.



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