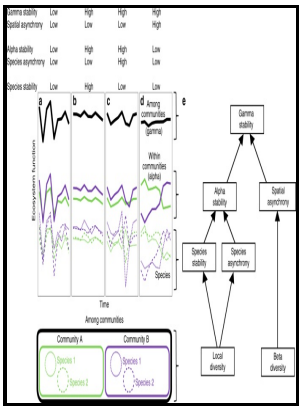
Vertical spatial diversity at the base station

- - Spatial Diversity



Description: -
-Vertical spatial diversity at the base station
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Notes: Thesis (M.Sc.) - Universityof Surrey, 1996.
This edition was published in 1996

Tags: #Massive #MIMO #Beamforming, #Spatial #Multiplexing #and #Diversity #— #Remcom

Antenna diversity type

In one specific embodiment, the transmitter may selectably operate in one of three diversity schemes corresponding to 1, 2 or 4 transmit antenna ports. Alternatively, the antennas can be located relatively close to each other, typically implying a high mutual fading correlation, that is, the different antennas experience the same, or at least very similar, instantaneous fading.

US9685997B2

Method and apparatus for wireless communication in a high velocity environment 2003-08-08 2005-02-10 Maltsev Alexander A.

Spatial Diversity

In one specific embodiment, the scrambling sequence is applied to all bits of the computed CRC parity bits. In LTE Release 8, UE-specific RS is used to accomplish single-layer beamforming and is transmitted on antenna port 5. It will be understood that the transmit antenna ports 408 a- 408 b may be individual physical antennas, one or more portions of one or more physical antenna e.

Base Station Antenna

The pink circle in every plot indicates the average of the auto- and cross-correlation coefficients.

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Time diversity Information is divided and sent across the channel at different time instants. The specific scrambling technique may vary, and in one embodiment, the original CRC bits are modulated, using base 2 arithmetic, with the predetermined mask or code.

Antenna diversity type

For example, in low signal strength areas and MIMO antenna mode, data transmission stagnated.

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This small-scale variation results from the arrival of the signal at street level via multiple ray paths involving reflection, diffraction, and scattering by buildings, vehicles, and other objects in the vicinity of the terminal, as suggested in Fig.

Multi

Spatial variation of a narrow band signal measured along a street showing both fast fading about the shadow fading obtained from the sliding average for non-LOS conditions From Lecours, M. In accordance with another embodiment, there is provided a method for receiving a signal at a receiver from a remote transmitter device and determining a number of transmit antenna ports in the remote transmitter device. In addition, the time required to transmit uplink pilots is independent of the number of transmit antennas N, whereas the time required to transmit downlink pilot is proportional to N.

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