

Title (en)

A METHOD FOR ALLOCATING DOWNLINK DATA STREAMS IN A DISTRIBUTED ANTENNA SYSTEM

Title (de)

VERFAHREN ZUM ZUTEILEN VON ABWÄRTSSTRECKENDATENSTRÖMEN IN EINEM VERTEILTEN ANTENNENSYSTEM

Title (fr)

PROCEDE POUR ALLOUER DES FLUX DE DONNEES DESCENDANTS DANS UN SYSTEME D'ANTENNES DISTRIBUE

Publication

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Application

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Abstract (en)

[origin: WO2006103283A1] A method for allocating downlink data streams in a distributed antenna system, wherein in the downlink radio signal transmission from remote units to a mobile terminal, the central unit of the service area in which the mobile terminal is located allocates data streams of the radio signal among the remote units within its service area, according to the following steps: firstly, measuring the position in the service area in which the mobile terminal is located; secondly, measuring the correlation of the downlink radio signals transmitted to the mobile terminal from individual antenna units of all the remote units within the service area; lastly, the central unit determining the manner in which the data streams are allocated among the remote units based on the position of the mobile terminal and the measured value of the correlation of the downlink radio signals. The method of the present invention can allocate data streams of a radio signal among remote units in a service area according to the variations in the position of the mobile terminal and radio signal transmission environment, and compared with traditional applications of MIMO radio transmission technology, the method further improves the transmission quality of radio signals and optimizes the performance of distributed antenna systems.

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