

ABSTRACT

METHOD AND DEVICE FOR COMPUTING STATISTICAL PARAMETERS OF THE PROPAGATION CHANNEL

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Method for computing in real or quasi-real time, the values of the statistics of a propagation channel so as to allocate resources to one or more communication links in a communication network comprising at least the following steps:

10 Estimate in real or quasi-real time the statistical parameters K_l and G_l of the propagation channel for each link l of the network by using the information originating from training sequences contained in the signal received, (61),

On the basis of the propagation channel estimations stored, at the level of a receiver, execute the following steps in parallel:

15 - detect whether there is a change in the statistical distribution of the stored channel estimations manifesting a break, (62),

If a break is detected, preserve part of the channel estimations arising from the estimation of the statistic of the channel, (63), and estimate the statistic K_l , by using part of the channel estimations,

20 Otherwise, when no break is detected estimate the statistic K_l , of the channel over the last channel estimations, (64),

- estimate the statistic G_l of the channel by using a sliding time window, (66),

Transmit (65) the values of channel statistics computed to a resources allocator which takes into account the service constraints and defines the allocation of the resources as a function of the estimations of the statistics of the channel.

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Figure 6 to be published