

ABSTRACT

The invention relates to a method and a system for transmitting contents to a set of users UE_k in a wireless communication network characterized in that it

5 allocates the radio resources by executing at least the following steps:

Measure or evaluate the quality of the radio links between the base station BS and the users UE_k (201), and the quality of the D2D radio links between the various users UE_k (202),

Select, as a function of the information regarding quality of links, one, and

10 only one, subset of users MG_i^* , of cardinality greater than or equal to 1, and a modulation and coding scheme MCS to be used for the point-to-multipoint transmission performed by the base station so as to guarantee the capability to decode such a transmission to all the users forming part of the selected subset MG_i^* ,

15 Generate a tree A (206), of cardinality greater than or equal to 0, formed exclusively by links $UE_k \rightarrow UE_k$ (D2D) existing between the users to relay the content of the point-to-multipoint transmission from the users forming part of the subset MG_i^* as chosen in the previous step to all the others,

Allocate radio resources on the D2D connections defined by the tree A .

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Figure 2 to be published