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ABSTRACT OF THE DISCLOSURE

RADIO RESOURCES ALLOCATING METHOD, RADIO RESOURCES ALLOCATING APPARATUS, AND MOBILE COMMUNICATION SYSTEM

An object is to select destination mobile stations so as to prevent directional beams directed to the respective mobile stations from interfering with each other in application of a directional antenna, and to allocate the radio resources to the mobile stations thus selected. A base station 10, which is capable of forming a plurality of directional beams directed to a plurality of mobile stations by applying a directional antenna 11 capable of adaptively varying directivity, to a transmission-reception antenna, is provided with a location estimator 19 for estimating a location of each mobile station on the basis of orientation information of the directional antenna; a reception quality estimator 22 for estimating a reception quality of each mobile station; a transmission priority calculator 21 for calculating a transmission priority of a packet to be transmitted; a determiner 16 for determining the number and directions of directional beams to be formed, based on the reception quality of each mobile station, location of each mobile station, and transmission priorities of packets; and an allocation controller 13 for allocating the plurality of directional beams thus determined, to a plurality of mobile stations.

Figure 2.