

AREA SETTING DEVICE, AREA SETTING SYSTEM, AREA SETTING METHOD, AND COMPUTER PROGRAM

ABSTRACT

An area setting system includes: a roadside communication device 2 that receives radio signals from a plurality of on-vehicle communication devices 3 traveling on a road; a first calculation section 21 that calculates a plurality of coverage areas in which the roadside communication device 2 can receive the radio signals, for the plurality of the on-vehicle communication devices 3, respectively, on the basis of pieces of vehicle information, of the plurality of the on-vehicle communication devices 3, included in reception signals received by the roadside communication device; a second calculation section 22 that calculates, on the basis of the plurality of coverage areas, a reliability area that is determined corresponding to reception reliability indicating a probability that the radio signals are received by the roadside communication device 2; and an area setting section 23 that sets, on the basis of the reliability area, a specific area for specifying control information to be used for control of a traffic signal unit 1 installed on the road, from among the pieces of vehicle information.

[FIG. 3]