

AREA DETERMINATION SYSTEM, AREA DETERMINATION METHOD, AND PROGRAM**ABSTRACT**

The problem is to improve the accuracy of decision about the presence or absence of mobile device in/from a target area. A detection unit detects, based on a received signal strength of a wireless signal (W10) being transmitted and received to/from a mobile device (40), location of the mobile device (40) to acquire mobile device location information. A first determination unit determines, based on the mobile device location information, whether the mobile device (40) is present in a target area. An obtaining unit obtains a number of times (n) of decisions of presence, which indicates the number of times that the first determination unit has decided that the mobile device (40) be present in the target area during a target period having a predetermined length (T). A second determination unit decides, when the number of times (n) of decisions of presence is equal to or greater than a predetermined number of times (N), that the mobile device (40) be present in the target area during the target period and decides, when the number of times (n) of decisions of presence is less than the predetermined number of times (N), that the mobile device (40) be absent from the target area during the target period. A control unit controls, using at least one selected from a time lag between multiple decisions of presence during the target period, the predetermined length (T), and the predetermined number of times (N), either determination processing by the second determination unit or decisions made by the second determination unit.

(Fig. 1)