

ABSTRACT

A wireless communication device capable of changing a communication parameter to be used according to a surrounding situation includes a learning database that stores, in association with each other, the surrounding situation of the wireless communication device and a communication performance in a case where communication is performed by using a given communication parameter, a plurality of sensors, surrounding situation determination unit configured to determine the surrounding situation of the wireless communication device from information obtained from the plurality of sensors, communication parameter candidate determination unit configured to refer to the learning database to determine candidates for the communication parameter that are appropriate in the determined surrounding situation, communication parameter determination unit configured to determine the communication parameter used in communication from among the candidates determined by the communication parameter candidate determination unit based on the requirement of the communication, and wireless communication unit configured to perform communication by using the communication parameter determined by the communication parameter determination unit. With this, it is possible to select an appropriate communication parameter according to the surrounding situation of the wireless communication device.

Fig. 1