CLAIMS

[Claim 1]

A behavior detection system, comprising:

a plurality of sensor devices, each of which comprises a first sensor configured to detect information and a first communication part configured to transmit information, and is installed in an indoor space;

a robot that comprises a second sensor configured to detect information, a second communication part configured to receive and transmit information, and a traveling part by which the robot itself travels in the indoor space;

a server that comprises a third communication part configured to receive and transmit information and that is configured to detect behavior of a mobile entity in the indoor space, based on detection information which is information detected by the first sensor of each of a plurality of the sensor devices and another detection information which is information detected by the second sensor of the robot; and

an interface device configured to allow a user to enter, on a screen, data on a position at which each of a plurality of the sensor devices is installed in the indoor space;

wherein the robot further comprises a storage part configured to store therein map information on the indoor space;

wherein the robot is configured to: detect a behavior of the mobile entity, based on the detection information from the first sensor and the detection information from the second sensor; if the behavior is determined to be in a state of anomaly, travel to a position corresponding to a coordinate of interest on the map information, at which the anomaly has been detected; and diagnose the anomaly;

wherein each of a plurality of the sensor devices is a household electrical appliance;

wherein the robot is configured to receive information on an operation of the

household electrical appliance;

wherein the robot further comprises a location sensor configured to detect geometric information on a space in which the robot itself travels;

wherein the storage part of the robot is configured to: store therein respective positions at which a plurality of the sensor devices are installed; and also store therein a correspondence relationship between the geometric information on the space in which the robot itself travels and each of the respective positions at which a plurality of the sensor devices are installed;

wherein the storage part of the robot stores therein the respective positions at which a plurality of the sensor devices are installed, as location information which is information represented in a coordinate system of a space detected by the location sensor of the robot itself; and

wherein the robot is configured to: when the second sensor detects information, hold the detected information in the storage part; compare the currently-detected information with information having-been-previously held in the storage part; and, based on a result of the comparison, diagnose a possible anomaly state of a behavior of the mobile entity.

[Claim 2]

The behavior detection system according to claim 1,

wherein the robot further comprises: a sensor configured to diagnose details of a possible anomaly; and an external communication part configured to communicate with the server, and

wherein, if an anomaly is determined to have actually occurred, the robot is configured to transmit information on the anomaly determined to have actually occurred, to the server via the external communication part.