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;~~.[Claim 2] The behavior detection system according to claim 1,~~

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

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;~~.[Claim 3] The behavior detection system according to claim 2,~~

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

wherein the robot is configured to receive information on an operation of the household electrical appliance; ~~.[Claim 4] The behavior detection system according to claim 3,~~

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

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; ~~.[Claim 5] The behavior detection system according to claim 4,~~

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; ~~.[Claim 6] The behavior detection system according to claim 5,~~ 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~~7~~]

The behavior detection system according to claim ~~6~~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 ~~the outside~~, 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 outside~~the server via the external communication part.

~~[Claim 8]~~

~~An interface device configured to communicably connect itself to: 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; and 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,~~

~~the interface device also 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.~~

~~[Claim 9]~~

~~A robot communicably connected to each of a plurality of sensor devices installed in an indoor space, each of a plurality of the sensor devices comprising a first sensor configured to detect information and a first communication part configured to transmit information, the robot comprising:~~

~~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,~~

~~wherein the robot is communicably connected to~~

~~a server that comprises a third communication part configured to receive and transmit information and that is configured to detect a 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.~~