

CLAIMS

What is claimed is:

1. A priority determination device for determining priority of an event, the priority determination device comprising:

a sensor group for acquiring sensor information;

an analysis unit for detecting, by analyzing the sensor information, occurrence of an event and determining an event feature related to the detected event;

a surrounding impact determination unit for determining, for an impact region that has a possibility of being impacted by the event, a surrounding impact parameter that indicates an impact of the event on the impact region based on the event feature related to the event; and

a priority calculation unit for determining a priority of the event based on at least the surrounding impact parameter,

wherein the priority determination device further comprises a user input database for storing a situation information matrix that defines a context coefficient indicating, for each of an event type that indicates a type of the event, a degree of impact of the event with respect to a particular facility, and the surrounding impact determination unit uses the context coefficient determined from the situation information matrix, to determine the surrounding impact parameter.

2. The priority determination device according to claim 1, wherein the surrounding impact determination unit further comprises:

a static asset parameter calculation unit for calculating, for a facility in the impact region, a static asset parameter that indicates an importance of static assets of the facility; and

a dynamic asset parameter calculation unit for calculating, for a facility in the impact region, a dynamic asset parameter that indicates an importance of

dynamic assets of the facility.

~~3. The priority determination device according to claim 2, further comprising:
— a user input database for storing a situation information matrix that defines a
context coefficient indicating, for each of an event type that indicates a type of
the event, a degree of impact of the event with respect to a particular facility.~~

43. The priority determination device according to claim 32, wherein:
the surrounding impact determination unit determines the surrounding impact parameter using the static asset parameter, the dynamic asset parameter, the context coefficient determined from the situation information matrix, and a distance of the facility from the event.

54. The priority determination device according to claim 43, wherein:
the priority calculation unit determines the priority of the event based on the surrounding impact parameter and a criticality parameter that indicates a criticality of the event.

65. The priority determination device according to claim 54, wherein the priority calculation unit further comprises:
a countermeasure flow generation unit for generating, with respect to the priority of the event, a countermeasure flow for responding to the event.

76. A priority determination method for determining priority of an event, the priority determination method comprising:
a step of acquiring sensor information from a sensor group;
a step of detecting, by analyzing the sensor information, occurrence of an event and determining an event feature related to the detected event;
a step of calculating, for a facility in an impact region that has a possibility of being impacted by the event, a static asset parameter that indicates an importance of static assets of the facility based on the event feature related to

the event;

a step of calculating a dynamic asset parameter that indicates an importance of dynamic assets of the facility based on the event feature related to the event;

a step of determining a context coefficient that defines a degree of impact of the event with respect to the facility from a situation information matrix stored in a user input database;

a step of determining a surrounding impact parameter that indicates an impact of the event on the impact region using the static asset parameter, the dynamic asset parameter, the context coefficient determined from the situation information matrix, and a distance of the facility from the event; and

a step of determining a priority of the event based on the surrounding impact parameter and a criticality parameter indicating a criticality of the event.

87. The priority determination method according to claim 76, further comprising:

a step of generating, with respect to the priority of the event, a countermeasure flow for responding to the event.

98. A priority determination system for determining priority of an event, the priority determination system comprising:

a sensor group for acquiring sensor information and a priority determination device for determining priority of an event that are connected via a communication network;

wherein the priority determination device comprises:

an analysis unit for detecting, by analyzing the sensor information received from the sensor group, occurrence of an event and determining an event feature related to the detected event;

a surrounding impact determination unit for determining, for an impact region that has a possibility of being impacted by the event, a surrounding impact parameter that indicates an impact of the event on the impact region

based on the event feature related to the event; and

a priority calculation unit for determining a priority of the event based on at least the surrounding impact parameter,

wherein the priority determination device further includes:

a user input database for storing a situation information matrix that defines a context coefficient indicating, for each of an event type that indicates a type of the event, a degree of impact of the event with respect to a particular facility, and

the surrounding impact determination unit is configured to use the context coefficient determined from the situation information matrix, to determine the surrounding impact parameter.

109. The priority determination system according to claim 98, wherein:

~~the priority determination device further includes:~~

~~— a user input database for storing a situation information matrix that defines a context coefficient indicating, for each of an event type that indicates a type of the event, a degree of impact of the event with respect to a particular facility; and~~

the surrounding impact determination unit is configured to:

include a static asset parameter calculation unit for calculating, for a facility in the impact region, a static asset parameter that indicates an importance of static assets of the facility;

include a dynamic —asset parameter calculation unit for calculating, for a facility in the impact region, a dynamic asset parameter that indicates an importance of dynamic assets of the facility; and

determine the surrounding impact parameter using the static asset parameter, the dynamic asset parameter, the context coefficient determined from the situation information matrix, and a distance of the facility from the event.