

Claims

[Claim 1]

An information processing method comprising:
acquiring position information of a failed mobile body;
setting a recovery route based on the position information of the failed mobile body, the recovery route being a route leading to the failed mobile body for recovering a recovery target by a recovery mobile body, the recovery mobile body being a mobile body other than the failed mobile body
causing the recovery mobile body to move along the recovery route,
detecting position and orientation of the recovery target by the recovery mobile body when the recovery mobile body reaches a position within a predetermined distance range from the failed mobile body,
setting an approach route to the recovery target based on the position and the orientation of the recovery target, and
causing the recovery mobile body to move along the approach route to recover the recovery target, wherein
setting an area of interest in which the recovery target is expected to be present, based on the position information of the failed mobile body,
wherein, in the detecting the position and the orientation of the recovery target, the recovery mobile body is caused to detect the area of interest.

[Claim 2]

The information processing method according to claim 1, further comprising
acquiring information on a scheduled work, the scheduled work being a work assigned to a mobile body other than the failed mobile body, and
determining whether to recover the recovery target based on the information on the scheduled work.

[Claim 3]

The information processing method according to claim 2, wherein, in the determining, when there is a mobile body to which the scheduled work is not assigned, the mobile body is selected as the recovery mobile body and is caused to recover the recovery target.

[Claim 4]

An information processing method comprising:
acquiring position information of a failed mobile body; and
setting a recovery route based on the position information of the failed mobile body, the recovery route being a route leading to the failed mobile body for recovering a recovery target by a recovery mobile body, the recovery mobile body being a mobile body other than the failed mobile body, wherein
acquiring information on a scheduled work, the scheduled work being a work assigned to a mobile body other than the failed mobile body, and
determining whether to recover the recovery target based on the information on the scheduled work, wherein

in the determining,

it is determined to recover the recovery target when all of a plurality of the scheduled works can be completed while the recovery target is avoided, and when a first total time is shorter than a second total time, the first total time being an estimated value of a total time required to complete all of the plurality of the scheduled works while recovering the recovery target, and the second total time being an estimated value of a total time required to complete all of the plurality of the scheduled works without recovering the recovery target, and

it is determined not to recover the recovery target when all of a plurality of the scheduled works can be completed while the recovery target is avoided, and when the first total time is longer than the second total time.

[Claim 5]

An information processing method comprising:

acquiring position information of a failed mobile body; and

setting a recovery route based on the position information of the failed mobile body, the recovery route being a route leading to the failed mobile body for recovering a recovery target by a recovery mobile body, the recovery mobile body being a mobile body other than the failed mobile body, wherein

acquiring information on a scheduled work, the scheduled work being a work assigned to a mobile body other than the failed mobile body, and

determining whether to recover the recovery target based on the information on the scheduled work,

wherein, in the determining, it is determined to recover the recovery target when not all of a plurality of the scheduled works can be completed while the recovery target is avoided.

[Claim 6]

The information processing method according to any one of claims 1 to 5, wherein the recovery target is a conveyance target object to be conveyed by the failed mobile body.

[Claim 7]

The information processing method according to any one of claims 1 to 5, wherein the recovery target is the failed mobile body.

[Claim 8]

An information processing device comprising:

a position information acquisition unit configured to acquire position information of a failed mobile body; and

a work setting unit configured to set a recovery route based on the position information of the failed mobile body, the recovery route being a route leading to the failed mobile body for recovering a recovery target by a recovery mobile body, the recovery mobile body being a mobile body other than the failed mobile body, wherein causing the recovery mobile body to move along the recovery route,

detecting position and orientation of the recovery target by the recovery mobile body when the recovery mobile body reaches a position within a predetermined distance range from the failed mobile body,

setting an approach route to the recovery target based on the position and the orientation of the recovery target, and

causing the recovery mobile body to move along the approach route to recover the recovery target, wherein

setting an area of interest in which the recovery target is expected to be present, based on the position information of the failed mobile body,

wherein, in the detecting the position and the orientation of the recovery target, the recovery mobile body is caused to detect the area of interest.

[Claim 9]

A program for causing a computer to perform processing, the processing comprising:

acquiring position information of a failed mobile body; and

setting a recovery route based on the position information of the failed mobile body, the recovery route being a route leading to the failed mobile body for recovering a recovery target by a recovery mobile body, the recovery mobile body being a mobile body other than the failed mobile body, wherein

causing the recovery mobile body to move along the recovery route,

detecting position and orientation of the recovery target by the recovery mobile body when the recovery mobile body reaches a position within a predetermined distance range from the failed mobile body,

setting an approach route to the recovery target based on the position and the orientation of the recovery target, and

causing the recovery mobile body to move along the approach route to recover the recovery target, wherein

setting an area of interest in which the recovery target is expected to be present, based on the position information of the failed mobile body,

wherein, in the detecting the position and the orientation of the recovery target, the recovery mobile body is caused to detect the area of interest.