

[ABSTRACT]

What is provided is a generation device reducing calculation cost required to generate a route control program. A route control program generation device constructs a group of a plurality of environment models with different states in which the states of the plurality of environment models are changed in various manners, wherein the environment model is constituted by a first moving body that is a control target and is present on a track divided into a plurality of sections and a second moving body other than the control target, and searches for a state transition order in a case in which it is possible to achieve a request for causing the first moving body to move to a prescribed section that is a goal by causing the first moving body to move to a destination while causing a state of one environment model selected from the group to transition to a state of another environment model in response to the request. The route control program generation device constructs the group in a state of an environment model that matches a prescribed restriction condition on the basis of the restriction condition.