

[Name of Document] ABSTRACT

[Title of Invention] ELEVATOR APPARATUS AND METHOD FOR
CONTROLLING ELEVATOR APPARATUS

[Object] To suppress the number of long-waiting users and improve service by predicting the waiting time of each user and by evaluating an overall long-wait ratio on the basis of an excessively long waiting time and the number of waiting users.

[Solution] An elevator apparatus according to the present invention is an elevator apparatus that assigns one of in-service units providing a service to each of users, on the basis of an origin floor and a destination floor of the user and the number of users, the origin floor, the destination floor, and the number of users being registered before entering an elevator. The elevator apparatus includes a prediction section that predicts a distribution of waiting times of all the users on the basis of arrival-at-hall times of the users and predicted arrival times of the individual in-service units to be assigned, an evaluation section that evaluates a long-wait ratio by calculating, on the basis of the distribution of waiting times of all the users, the number of waiting users whose waiting time exceeds a long-wait judgment time and a long waiting time beyond the long-wait judgment time, for each of the in-service units to be assigned in each hall, and a to-be-assigned unit

determination section that assigns one of the in-service units providing a service to each of the users, on the basis of an evaluation result generated by the evaluation section.

[Selected Figure] Fig. 1