Title (en)
METHOD FOR CONTROLLING AN ELEVATOR SYSTEM

Title (de)
VERFAHREN ZUR STEUERUNG EINES AUFZUGSSYSTEMS

Title (fr)
METHODE POUR COMMANDER UN SYSTEME D'ASCENSEUR

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Application
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Abstract (en)
[origin: WO2005100223A2] The present invention discloses a method and a system for the allocation of elevators on the basis of calls in an elevator system. The method produces for different route alternatives a cost function wherein the traveling time of each passenger is calculated. The calculation of the traveling time is performed taking into account the time spent while waiting for an elevator at a floor, the ride time in the elevator car, the delaying effect of active landing and car calls on the traveling time and the delaying effect of car calls given by new passengers entering at intermediate stops. The method is advantageous in the destination call system, but in the traditional up-down call system it is possible to utilize information provided by traffic statistics to predict the destination floor. Route alternatives can be created e.g. by using genetic algorithms. Once the route alternative giving the shortest average traveling time has been calculated, the elevators are controlled according to this route. In intensive traffic conditions, traveling time is optimized, and in quiet traffic conditions, passenger waiting time is optimized.

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