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(57) Abstract :
Group of elevators in a building have long been recognized an important issue to improve the transportation efficiency, since this issue ranks second priority after HVAC (Heating, Ventilation and Air Conditioning)as the main complaint of building tenants. Anything to enhance elevator performance, e.g., shorter wait times during rush hours, will improve passenger satisfaction. However, the problem is difficult because of complicated elevator dynamics, various traffic patterns with uncertain arrivals and destinations, and the combinatorial nature of discrete optimization. To overcome the difficulties caused by traffic uncertainties, one important trend is to explore advance information with respect to detect number of person waiting near to the elevator. An RFID tag on a person may allow the system to sense when the person is approaching an elevator and which floor is likely .to be the destination. By using sensor output, here we can control the various aspects of elevator functions.

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