CLAIMS

1. An elevator riding detection system characterized by comprising:

imaging means for capturing an image of a predetermined range from a vicinity of a door of a car toward a hall when the car arrives at the hall;

detection area setting means for using the image captured by the imaging means, detecting a three-sided frame of the hall, and setting a detection area based on the three-sided frame;

passenger detection means for using the chronologically successive images captured by the imaging means, focusing on a movement of a person or a object in the detection area, and detecting presence or absence of a passenger having an intention of getting into the car; and

control means for controlling an opening-closing operation of the door based on a result of detection by the passenger detection means.

2. The elevator riding detection system of Claim 1, characterized in that

the detection area setting means detects corners of a right frame and a left frame of three frames which constitute the three-sided frame, the corners being located on a building wall side and being in contact with a ground, and

the detection area setting means sets the detection area including the corners.

3. The elevator riding detection system of one of Claims 1 and 2, characterized in that

the detection area setting means detects inclinations of inner side surfaces of a right frame and a left frame of three frames which constitute the three-sided frame, and sets borders of the detection area based on the inclinations.