

People Counting Inside Elevator Car

Organization: Kone

Overview: Knowing the people capacity on inside the car on demand can help the KONE systems to manage the elevator calls in a best possible way.

Current Challenges: In a case where an elevator is fully occupied in floor 1 and someone gave a landing call in floor 2, we will still stop in the next floor. Of-Course we do have load based bypassing and it is not so reliable due to many factors. Accurate people count information on passing to the controller before moving the elevator to next floor helps in call allocation decision.

Business Requirements: Technology Partner. Require a solution with good accuracy and should be able to work in all elevators irrespective of car dimensions, lighting, reflections due to interior design. Plug and play type of setup. Easily configurable. An Edge solution. 95-100% accuracy of the number of people inside the car is expected. Solution should not store the people image data as this is a privacy concern. Solution must be remotely configurable and remote software download when required. Placement recommended on corners of the elevator car and not in the top center.

Use Cases: 1. Call allocation based on the number of people inside a particular elevator. Next floor landing calls will be allotted to lift B incase lift A is completely occupied. 2. People position detection at the time of rescue operation.