

Advanced Accidents Avoidance System in Railways by Figuring out Obstacle

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ABSTRACT

The Railway Network is the largest among all the mode of transport in the whole world. In Railway System Safety and Reliability are highly required constituents. Rail Accidents is one of the major issues where most people encounter in their day to day life. We demonstrate the ability of infrared sensor and thermal imaging camera to protect the unauthorized activities in railways. Technological strategy is adopted to protect a specific depot and represents a common scenario for security application in the railway environment. An integrated system consists of IR sensor and thermal imaging camera that detect the presence of obstacles such as Alive as well as Non Alive Obstacle in the railway track. This whole setup is fixed in front of the engine which is directly connected to the LCD display placed near the Driver. Thus both obstacle image and distance are displayed which is placed near the engine. By this process engine operator can identify the obstacle in the railway track. This process helps to prevent the train accidents and save the life of Human, Animals and also can identify the Non Alive Obstacle.

