Abstract

IOT can be used to improve various aspects of the railway system. Automation of railways can transform the current legacy systems and help decrease the railway related accidents significantly. This research paper proposes a system where sets of infrared sensors are used to track the position of the train and its direction. This information is used to close/open the railway barrier automatically via a motor connected to a microcontroller unit. It is also used to warn the driver about a possible collision with a train coming from the opposite direction via an SMS sent from the GSM module attached to the microcontroller. The position of the train is sent to a webpage via the GSM module for tracking.

References

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Index Terms

Computer Science Automated Systems

Keywords

Microcontroller, IOT, GSM, train collision avoidance, automatic, SMS, webpage