LITERATURE SURVEY

SMART SOLUTIONS FOR RAILWAYS

BOOK TITLE : Smart Train Detector using IoT Approach

BOOK AUTHOR : Payal Srivastava

PUBLICATION YEAR : January 2019

ABSTRACT : In railway tracks to indicate the movement of train is not sufficient. The sensors present in the railway tracks can detect any metal object, be it a train or mere a coin. Thus, in order to make the working more fool proof, introduction of another parameter,

BOOK TITLE : Robust Railway Crack Detection Scheme (RRCDS) Using LED-LDR Assembly

BOOK AUTHOR : Vigneshwar Murali

PUBLICATION YEAR : May2012

ABSTRACT : The paper also presents the details of the implementation results of the RRCDS utilizing simple components inclusive of a GPS module, GSM Modem and LED-LDR based crack detector assembly. The proposed scheme has been model for robust implementation in the Indian scenario.

BOOK TITLE : Detection of Crack in Railway Track using Ultrasonic Sensors

BOOK AUTHOR : Anjana

PUBLICATION YEAR : December 2015

ABSTRACT : On railways for transportation, if a crack in railway track is not detected during the early stages they may lead to derailment causing heavy loss to human life and property. In this paper a crack detection system is proposed which detects the crack without human intervention and sends the location of fault to the authorized personnel using GPS. Crack detection by this method can be done during both day and night time and exact location of fault can be obtained.

BOOK TITLE : SMART RAILWAY AUTOMATION SYSTEM USING IOT- ALITERATURE SURVEY

BOOK AUTHOR : Dr. A. Benjamin Joseph

PUBLICATION YEAR : May 2012

ABSTRACT : Even with greatest of ideas to avoid railway accidents, many trains accidents still happen worldwide. This paper shares an idea on how to avoid train collision by using an automated control incorporated in the trains. In this proposed paper we have implemented ideas such as pre-crashing using RFID sensor, ultra sonic sensor in-order to choose an array of commands which would run as per the conditional algorithm created in the microcontroller.