Abstract

The Indian Railways is world's fourth largest railway network in the world after USA, Russia and China. There is a severe problem of collisions of trains. So Indian railway is working in this aspect to promote the motto of "SAFE JOURNEY". A RFID based railway track finding system for railway has been proposed in this paper. In this system the RFID tags and reader are used which are attached in the tracks and engine consecutively. So Train engine automatically get the data of path by receiving it from RFID tag and detect it. If path is correct then train continue to run on track and if it is wrong then a signal is generated and sent to the control station and after this engine automatically stop in a minimum time and the display of LCD show the "WRONG PATH". So the collision and accident of train can be avoided. With the help of this system the train engine would be programmed to move according to the requirement. The another feature of this system is automatic track changer by which the track jointer would move automatically according to availability of trains.

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- Transportation Management; XUE Xiaoping, College of Electronics and Information Engineering, Tongji University Shanghai; China MEI Su-ping, College of Electronics and Information Engineering, Tongji University Shanghai, China; CHEN Chen-hui Shanghai Shentie Information Engineering Co., Ltd. Shanghai, China; ZHANG Hai-juan Jiangsu Normal University of Technology, Changzhou, China; The 1st International Conference on Information Science and Engineering RFID and ATIS Information System based Railway Container (ICISE2009)

**Index Terms**

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**Keywords**

RFID  Railway Track Finder  Train Collision Avoidance  Track Atomization.