

# Smart Solutions for Railways

## Literature Survey

Paper Name	Author	Year	Methodology	Merits	Demerits
1. Passenger Monitoring Model for easily Accessible Public City Trams/Trains	Roman Khoemblal, Teeravisit Laohapensaeng, Roungsan Chaisricharoen	2015	Passenger monitoring, passenger control RFID distance reading, ticket control, RFID ticket inspection	It is possible to travel cross country with a single public transportation card, using transport systems of several transport operators.	Applicable only for passenger monitoring.
2. Application of smart computing in Indian Railway Systems	Parag Chatterjee Asoke Nath	2014	By Interlinking unique identification system with train ticket reservation system by using video surveillance, rail sensors, biometric input devices and multimedia displays.	Reduces manual effort in passenger data entry  Provides security verification.	Significant investment is needed.  Risk of database.

3. Android Suburban Railway Ticketing with GPS as Ticket Checker.	Sana Khoja, Maithili Kadam	2012	Android, SQ lite, Cloud Database, ASR, QR Code	E-Ticket facility, enabling reuse and replacement of components	QR Codes before the user enters or leaves the station, where the user can have access which is risk in ticket booking.
4. Novel Approach for Smart Indian Railways.	Sujith Kumar, K.M.Yatheendra Parvan, V.Sumathy, Thejeswari C.K	2017	Digitalization, Smart Railways, Aadhar Card, Smartphone, Identity Verification	Employ a mobile application through which passengers can access various ticketing options in user friendly and efficient manner.	Biometric database is risk of hacking.