LITERATURE SURVEY ON SMART SOLUTION FOR RAILWAYS

TEAM MEMBERS:

Varshini Sri G (TEAM LEAD)
Subhiksha S
Subiksha S
Swethaa G N

The Internet of Things seems to be created for use in the Railways; even the acronym “IoT” might be decrypted as the Internet of Trains. Really, IoT sensors measuring speed, vibration, telemetry, brakes, and more have made it much easier to monitor the schedule, detect route issues, and eliminate human mistakes while operating a train.

Smart railway is a technologically advanced approach to efficiently manage railway operations through sharing of rail data across rail infrastructure components, such as passengers, control centers, ticketing department, and freight.

TITLE AND AUTHOR	YEAR	TECHNIQUE	FINDINGS
Internet of Things for Smart Railway: Feasibility and Applications Author: Ohyun Jo, Graduate Student Member, IEEE, Yong-Kyu Kim, Member, IEEE, and Juyeop Kim, Member, IEEE	2018	Internet of things	The explosively growing demand of Internet of Things (IoT) has rendered broad scale advancements in the fields across sensors, radio access, network, and hardware/software platforms for mass market applications.
Internet of Things in the Railway Domain: Edge Sensing System Based on Solid-State LIDAR and Fuzzy Clustering for Virtual Coupling Author: GABRIEL MUJICA , (Member, IEEE), JAVIER HENCHE, AND JORGE PORTILLA , (Senior Member, IEEE)	2021	Internet of things	The railway domain is envisioned to have important breakthroughs in terms of costefficiency, selfmanagement, and reliability in the operation of the rolling stocks and infrastructures.

Review on railway track crack detection using IR transmitter and receiver Author: Rakesh V. Pise1, Parag D. Nikhar2, Prof. Avinash H. Shelar3	2017	Internet of things	The defect information can be wirelessly transferred to railway safety management centre using a GSM module
Robust Railway Crack Detection Scheme (RRCDS) Using LED-LDR Assembly Author: Gourav saha, vaidehi,vigneshwar murali	2012	Internet of things	Robust solution to the problem of railway crack detection utilizing