SIGNS WITH SMART CONNECTIVITY AND BETTER ROAD SAFETY

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LITERATURE SURVEY

Introduction:

IOT is influencing our lifestyle from the way we react to the way we behave and it conceptualizes the idea of remotely connecting and monitoring the real-world objects through the internet. Road accident nowadays has become a national catastrophe for over populated developing countries.one of the main cause of accident in the sensitive public zones like school, college, hospitals etc. and the sharp turning points is the over speed of vehicles avoiding the speed limit indicated in the traffic sign board. Drivers endanger the lives of passengers, pedestrians and fellow drivers not limiting their vehicle speed in these sensitive public zones. The main objective of this project is to operate the vehicles in s safe speed at critical zones & bad weathers minimizing the possible risk of unwitting accidents, traffic and casualties. This project paves a system to alert the driver about the speed of the vehicle in sensitive public zones and if need any diversion at that place without any interference of the drivers. The system operates in such way that the accident information is passed to the vehicles entering the same zone to take diversion to avoid traffic congestion. This project is sub divided into three parts. These are weather monitoring display, warning and service alert display, diversion sign display. The controls are taken automatically by the use of a wireless local area network. Weather conditions can be monitored through open weather app. With the help of G-map we will indicate the sensitive zone. Let's analyze the diversion area with the help of AI camera.

S NO	TITLE	Authors	Abstract	Drawbacks
1	A smart notice board system using IOT technology	• G.Brindha • S.Gladson	Digital Notice board is used in institution or organization or public utility places like College campus, railway stations etc., but Sending and monit oring various notices every day is a heavy process. A separate person is required to take care of these notices. This paper deals with advanced notice board. Our proposed system will enable people to wireless transmit notices on a notice board using GSM with smart Phone and users get auto notification using parse cloud. Its operation is based on microcontroller ATMEGA 328 Programmed in C language. When the user sends notice via registered smart Phone that message will get display on the notice board simultaneously through the parse cloud other users get auto notification on their smart Phone. We can also makethe system compatible with more than one wireless technology. The numbers of notice boards are connected in IOT to get the status of the notice boards automatically to the cellular device.	1.This method using wireless communication so internet facilities had poor for some area 2.Cost is high.
2	Digital Notice Board Based on IOT	LurdhumaryAbisha.MAsha.T.K31Francima.C	This project presents a digital notice board using IoT module. The idea behind this project is to provide its users with a simple, fast and reliable way to put up important notices in an LED where the user can send a message to be	1. Signal Interference The common frequency that a Wi-Fi device operates on is 2.4 GHz, which can be disturbed or hindered

			displayed in the LED. The message can be sent through an android application designed in this project, through the IoT module. So, notices can be put up in an LED display from any location in the world. It uses a microcontroller for system control, IoT based technology for communication and sends the message through the android application. The project consists of Arduino UNO board, IoT module, an LED, and an android application for user interface with the hardware. This device can be used anywhere irrespective of the place of deployment provided mobile network connectivity is available.	due to the presence of other electromagnetic devises or walls between you and the WiFi source. 2. This system supports only one message at a time.
3	The Role of Blockchain, AI and IoT for Smart Road Traffic Management System	 Ashish Sharma Yogesh Awasthi Sunil Kumar 	Nowadays vehicles are increasing on the road. Due to this, it is a challenge for society to manage traffic jams and road accidents all over the world. Artificial Intelligence (AI) such as Machine Learning (ML) algorithms are very helpful to improve the performance of the overall road safety management system. AI is used for many real-world applications to make any system be a smart system. The Smart Road Traffic Management System (SRTMS) easily recognizes the influence occurs for random changes on road safety. The SRTMS detects the unsafe driving patterns as well as convey the information to the respective authorities. The Internet of Things (IoT) is a boon technology to observe human activities in real-time. IoT devices or nodes are composed of sensors that are commonly utilized to identify and reply to electrical and other signals. Currently, Blockchain (BC) is the most trending technology to automate	1.It concludes that the solution is not easily manageable because of its complexities on various causes. 2. In this paper, it is designed as an architecture for the traffic management system by the combination of boon technologies IoT, AI, and BC for real-world problems

			transactions, which means sharing or exchange of information between the IoT devices or nodes. BC technology facilitates for sharing of information on the network is decentralized, secure, persistent, anonymity, suitability and trustworthy manner. With consensus algorithms and smart contracts, Blockchain holds to manage communication among nodes without the involvement of a third-party or intermediary body. Simultaneously, AI has the ability to offer intelligent and decision-making machines similar to human beings' minds. This paper proposes the SRTMS model for solving the road accident, traffic jam and disseminate the information to all stakeholders. This proposed model is a combination of most trending technologies such as AI, BC, and IoT.	
4	IOT Based Electronic Notice Board	 Satish D. Jadhav Yogita Mistry Student PHCET Rasayani 	This technical paper deals about development of IoT based electronics notice board using available IP based infrastructure & IoT devices. Smart notice board can be developed to make noticing system much simple and faster & cost effective with web & SMS interface the system is platform independent which overcomes the disadvantages of existing Noticing system. Web and SMS interface of system gives access to both IP based as well as cellular based network devices to provide	1.This use advanced high technology notice so cost is high. 2.Large amount of date to stored not to be efficient

	1			1
			input to the system. This	
			prototype developed	
			can be used to eliminate the need	
			of huge bill	
			boards thus it is also a better	
			method of going	
			green	
			Index Terms: IoT;Web; SMS	
	IOT Road	SOWPARNIKA B	Road accident nowadays has become	1.Increased
5	Safety		a national catastrophe for over	traffic can
	Salety		populated developing	increase carbon
			countries. One of the main cause of	emissions and
			accident in the sensitive public zones	other pollution.
			like school, college,	
			hospitals etc. and sharp turning	2.Land use for
			points is the over speed of vehicles	roads can
			avoiding the speed limit	damage built and
			indicated in the traffic sign board.	natural
			Drivers endanger the lives of	environment,
			passengers, pedestrians and	impose mortality
			fellow drivers not limiting their	on wildlife if
			vehicle speed in these sensitive	habitats are
			public zones. The main objective	severed, and
			of the proposed system is to operate	construction has
			the vehicles in a safe speed at critical	associated
			zones minimizing the	environmental
			possible risk of unwitting accidents	costs.
			and casualties.This project paves a	
			system to alert the driver	
			about the speed limits in specific	
			areas and reduce the speed of the	
			vehicles in sensitive public	
			zones without any interference of	
			the drivers.The controls are taken	
			automatically by the use of	
			a wireless local area network. The	
			system operates in such way that the	
			accident information is	
			passed to the vehicles entering the	
			same zone to take diversion to avoid	
			traffic congestion.	
6	Smart roads:	Andrea	The years we are experiencing are	1.Smart roads
	A state of the	Pompigna	often identified as those of the	combine
	art of	Raffaele	Age of Smart Technologies.	physical
		Mauro	Smart is	infrastructures
	highways	IVIGUIO		such as sensors
	innovations in		now a very popular term, with the	and solar
	the Smart Age		meaning of clever, intelligent,	
			sharp, quick on the uptake. Its	panels with

extensive meaning can be grasped if we consider it as an acronym for Self-Monitoring Analysis and Reporting Technology to indicate the essential features of the innovative technologies that characterize today's society in its daily life. Thus, the advent of the Smart Age, which is therefore the era of smart technologies, has heavily characterized and modified many aspects of today's society compared to the past. In this panorama, some arising questions regard transport infrastructure systems and, first of all, road transport. This research proposes a focus on one main issue: how roads fit into this smart revolution? Actually, the paper aims to offer an overview of the smart approach in road engineering by proposing a broad discussion about the current state of innovation in the smart roads field, i.e. the roads of the Smart Age. After defining the key functions of a smart road, the paper reviews some innovative technologies that make these items effective. These are studied in depth both with regard to motorway-type infrastructures and urban roads and intersections, with attention to the various technological aspects and to the benefits perceivable by management, users and the community. The paper,

software infrastructure like AI and big data.

2.Smart road technologies are embedded in roads and can improve visibility, generate energy, communicate with autonomous and connected vehicles, monitor road conditions, and more.

		therefore, offers a bird's eye view of this extremely dynamic sector with innovative technologies for a new intelligent and connected mobility, and discusses some of their criticalities and strengths allowing for optimization and development of new transport functions and services, improving energy efficiency and promoting social,	
		environmental sustainability.	
Internet of Things Based Notifications Using Smart Notice Board	 G.Lavanya N.N.Deepika T. Sangeetha R.Maheshwari R.Josephine 	Conventional Notice Board employs manual display and monitoring with papers and ledgers. The Target users are unaware of information displayed on the notice board. The objective of the project is to display the message on the notice board from anywhere and anytime, that even provides broadcast alerts to the target users. The system was designed and developed using the Internet of Things. Arduino board integrates the display unit, Mobile App and SMS Agent through Internet. The message to be displayed on the notice board is sent through a mobile app to the board with Arduino. As soon as the message is displayed, SMS alert is sent to the target users. A system of efficient Notice Board display controlled through the Internet is accomplished and presented in this paper.	1.This method using wireless communicatio n so internet facilities had poor for some area 2.Sometime the user cannot to seeing notifications
Application of	Srimantini	This paper explores the	1 Although the
IoT and Artificial Intelligence in Road Safety	Bhattacharya ● Harsh Jha ● Radhikesh P	advancement of the Internet of Things (IoT) and Machine Learning in the field of Road Safety and accident prevention with a state-of-the-art review of various techniques adopted for implementing an intelligent road Safety System. In	1.Although the concepts of IoT applying to road safety sound exciting and very much increase road safety, these applications are still not in use. This
	Things Based Notifications Using Smart Notice Board Application of IoT and Artificial Intelligence in	Things Based Notifications Using Smart Notice Board Application of IoT and Artificial Intelligence in N.N.Deepika T. Sangeetha R.Maheshwari R.Josephine Srimantini Bhattacharya Harsh Jha Radhikesh P	of this extremely dynamic sector with innovative technologies for a new intelligent and connected mobility, and discusses some of their criticalities and strengths allowing for optimization and development of new transport functions and services, improving energy efficiency and promoting social, economic and environmental sustainability. Internet of Things Based Notifications Using Smart R. Maheshwari R. Maheshwari R. Motice Board P. R. Motice Board P. R. Motice P. R. Motice P. R. Motice P

condition of	avior of drivers, the can be accredited for
using Radio Identification with the hell safety system real-time bathelp to create and highly estated the driver's drowsiness time camera resolution in role of Al in condition of preventing in also discussion provides a general the application of the application in Road safety limitations at the application in Road safety limitations are supplied to the driver's drowsiness time camera resolution in role of Al in condition of preventing in Road safety limitations are the application of the application of the supplication	several reasons. 2. The current body of knowledge lacks a method for quantitatively evaluating the effectiveness of such technologies, which probably is one reason why they have not been deployed widely. Toda and bridges in road accidents is sed. Though the paper good insight into tion of IoT and Machine the smart exystem, certain are highlighted. Tetronics. The automation is ten spelled term within electronics. The automation brought out on switchin switchin the hologies. Notice board orimary factor in shment or public places tions, railway lleges, malls etc. Sticking out on the fithis notice display. This

sage from Browser to the display. A local web server is created, this could be a global server over net. At the PIC microcontroller, LED matrix is used to display message and flask for receiving the message over network. Whenever microcontroller receives any wireless message from GSM module, it displays on the LED matrix. The Internet of Things (IOT) belief system can be looked as an exceptionally unique and radically distributed networked system composed of a very large number of identifiable smart objects. These objects can convey and to interface among themselves, with end-users or different elements in the system. Entering the era of Internet of Things, the use of small, shoddy and flexible computer hardware that allow end-user programming become present. One of them, considered in this, is the PIC microcontroller, fully customizable and programmable small computer board. Relative investigation of its key components and exhibitions with some of current existing IOT prototype platforms have shown that despite few disadvantages, the PIC microcontroller remains an modest with its effectively utilization in diverse range of research applications in IOT vision.