INDEX

3.2.2 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year 2022-23

Sr. No.	Particulars
1	First page of paper
2	certificates

3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr.S.B.Patil		Surface electromyography (sEMG) based pain intensity measurement using SVM algorithm	AIP conference Proceedings	INTERNATIONAL CONFERENCE ON INNOVATIONS IN COMPUTER SCIENCE, ELECTRONICS & ELECTRICAL ENGINEERING-2022		Jun-23	https://doi.org/10.1063/5.0130353	JJM	AIP conference Proceedings
2			TRAFFIC CONTROL AND GREEN CORRIDOR USING UNMANNED AERIAL VEHICLES (DRONES	Conference World	National Conference on Emerging Trends in Engineering and Technology (NCETET-2023)	National	2023	ISBN: 978-93-91535-4-5	JJM	Conference World
3			APPLICATION OF UAV TO GENERATE GREEN CORRIDOR	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM

4	Prof.M.U.Phutane		Fire Fighting Robot	Conference World	National Conference on Emerging Trends in Engineering and Technology (NCETET-2023)	National	2023	ISBN: 978-93-91535-4-5	JJM	Conference World
5			Fire Fighting Robot using microcontroller	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
6	Prof.M.M.Kolap		DESIGN & OPERATION OF AGRICULTURE BASED PESTICIDE SPRAYING & GRASS CUTTING ROBOT	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
			IOT Based Smart Helmet	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
7	Prof.P.P.Belagali		AUTOMATIC FILLING AND WEIGHING MACHINE BY USING ANDROID APPLICATION	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
8	Prof.V.T.Kamble		Speed Breaker Through Power Generation	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
9			Construction Site Inspection by using Drone or UAV	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

10	Dr. D. A. Nikam		Urban emergency event detection using social media	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
11			Customer Mall Segmentation		National Conference on Emerging Trends in Engineering & Technology	National	2023	978-93-91535-91535-44-5		
12	Prof. A. V. Gundavade		Smart shopping trolley	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
13			Chattery the chatbot	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
14	Prof. Sneha Satpute		E-healthcare cloud solution	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
15	Prof. P. S. Ambupe		Face recognition attandance system	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
16	Prof. P. V. Kothawale		Male Vikas Co-operative Society	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
17	Prof. Snehal Farande		Women security android application	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
18	Prof. M. B. Bhilavade		Image Inpainting for Fingerprint Analysis		ICACRS	International	Feb 2022	978-1-6654-6084-2	Dr. JJMCOE	IEEE
19	Prof. M. B. Bhilavade		Image Inpainting for Fingerprint Contruction		WCONF 2023	International	Jul 2023	979-8-3503-1120-4/23/$31	Dr. JJMCOE	IEEE

20	Prof.Y.R.Patil		Design and development of Automatic	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
21	Prof.M.V.Kharade		Design and development of chain link fencing machine	WCSEM	11th WCSEM June 2023International	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
22	Prof. R.H.Yadav		Design and Construction of an Underwater Robot	WCSEM	11th WCSEM June 2023International	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
23	Prof. S.M.Shaikh		Design and development of speed detection device in car accident	WCSEM	11th WCSEM June 2023International	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
24	Dr.P.R.Kulkarni		Design and development of wire cut edm machine	WCSEM	11th WCSEM June 2023International	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
25			SOIL STABILIZATION BY USING HIGHLY VULCANIZED RUBBER SHEET: A REVIEW	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
26			"Use of plastic in bitumen for construction of road"	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
27	Dr.J.S.Lambe		"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM

28			Review on the impact of using eggshell powder in concrete to accelerate the hydration process of cement paste	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
29			Causes of accident & its impact on construction work	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
30	Prof.A.S.Sajane		PROJECT MANAGEMENT IN CONSTRUCTION BY USINGPRIMAVERA P6 SOFTWARE	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
31	Prof.A.S.Sajane		Cracks In Construction Causes Prevention And Repair	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
32	Prof.Mrs.A.P.Chougule		"Use of plastic in bitumen for construction of road"	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
33	Prof.Mrs.A.P.Chougule		"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM

34	Shruti S khot		DESIGN OF SLOPE STABILIZATION SCHEME IN JOTIBA HILL REGION	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
35	Prof. D. A. Latthe		"Biodegradable Material Management in Dr. J.J. Magdum College Of Engineering Campus"	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
36	Sneha P Madnaik		Study on the impact of textile industry effluents of Ichalkaranji city on the water quality(Water quality of Panchganga River at Ichalkaranji)	WCSEM	11th WCSEM June 2023	International	2023	ISBN -978-93-95470-52-0	JJM	WCSEM
37			Application of microsurfing tech for optimising maintainance cost of rigid pavement in india	ICSSMT		International	2023	ISBN -978-93-95470-52-0	JJM	ICSSMT
38	Prof.V.A Patil		Application of microsurfing tech for optimising maintainance cost of rigid pavement in india	ICSSMT		International	2023	ISBN -978-93-95470-52-0	JJM	ICSSMT

39			Review on the impact of using eggshell powder in concrete to accelerate the hydration process of cement paste	GIS science journal		International	2023	ISBN -978-93-95470-52-0	JJM	GIS science journal
40	Prof. R.A. Bharatiya		DESIGN AN IOT BASED NOISE DETECTION AND ALERT SYSTEM	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
41			MEDICAL MANAGEMENT SYSTEM	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
42			Waste Food Management system	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
43	P.R.Desai		Distracted Driver Detection Using Machine Learning Approach	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
44			FAKE NEWS PREDICTION USING MACHINE LEARNING	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
45	J.T.Patil		Gesture Recognition-Based Virtual and Mouse	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
46			Stock Management System	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
47	P.A. Tamgave		Mobile Application of Pet Adoption System	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023

48	A.G. Chendake		Design a Software System For Vaishnavi Jewelleres	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
49	S.B. Holkar		E-Commerce Website with PWA technology for Interiors & Electricals	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
50			Study and Design E-CommerceWebsite	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
51	P.R.Patil		SENTIMENT'S PREDICTION	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023
52			Dairy Automation	WCSEM	WCSEM,2023	Internationa	2023	ISBN : 978-93	Dr. JJMCOI	WCSEM,2023

Dr. J. J. Magdum College of Engineering
Jaysingpur
416 101

National Conference on Emerging Trends in Engineering & Technology(NCETET-2023)
Bharati Vidyapeeth's College of Engineering, Kolhapur
Date: 31st March 2023
ISBN : 978-93-91535-44-5

TRAFFIC CONTROL AND GREEN CORRIDOR USING UNMANNED AERIAL VEHICLES (DRONES)

Komal Patil[1], Sneha Kate[2], Rohit Patil[3], Sanket Bhoi[4],Dr.SB.Patil[5]

1.2.3.4. STUDENT

ELECTRONICSANDTELECOMMUNICATION,DR.J.J.MAGDUMCOLLEGEOFENGINEERING JASINGPUR,INDIA

5 STUDENT ELECTRONICS AND TELECOMMUNICATION, DR. J.J. MAGDUM COLLEGE OF ENGINEERING JASINGPUR, INDIA

ABSTRACT

Recently, Unmanned Aerial Vehicle (UAVs) has cached lots of instructed researchers developing them. They are numerous applications such as agriculture pesticide spraying drones, security drones, and surveillance dronesfor providingmedicinesto users, food packetdelivery drones, etc. In this paper, the design of the prototype drone is shown for traffic monitor control and the green corridordrone has a flight time capacity of 15 minutes guidance for an ambulance giving green corridor to it.The dronehas a wirelesspublicaddress system(PA)whichis controlled bytraffic.

KEYWORDS-DRONE,GREENCORRIDOR,PUBLICHEALTH,TRAFFIC CONTROL,UAV

I] INTRODUCTION

Approximately two to five percent of a counter's gross domestic is lost to traffic congestion. With increasingindustrialization, urbanization & population, there has been tremendous growth in traffic. With growingtraffic, these are rise in problems. Which include traffic jams faced by ambulances fire brigades & othervehicles. Emergency vehicle benefit is enormously influenced since of activity. Delays in coming to the clinic may lead to the misfortune of life of a persistent. These things require a Expedient. The Deane Rules (unused Rules) 202) characterizes plan as "an air ship that can work independently or can be worked remotely, without a pilot on board. Rambles are moreover known as unmanned flying machine frameworks. However, with technologicaladvancements, their use for civilian purposes & has evolved in recent years. Drones provide productivity &efficiency at low costs for a variety of activities. Most drones have a present day built-in Cameras, Speaker, conveyance, etc. The observation employments of unmanned airborne vehicles (UAVs) have developed since of their capacity to function in unsafe areas whereas keeping their human administrators at a secure remove. The bigger UAVs to give a dependable long length, cost-effective, stage for surveillance as well as weapons. They have developed to gotten to be an vital instrument for the military. The address we postured for the extend was whether little UAVs moreover had utility in military and commercial/industrial applications.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

APPLICATION OF UAV TO GENERATEGREEN CORRIDOR

DR.PROF. S B. PATIL.[1], KOMAL PATIL[2], ROHIT PATIL[3], SNEHA KATE[4], SANKET BHOI[5]

[1, 2,3,4] Dept. of Electron's Engineering. Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 401

[1]Accociate professor & Research and Dean of Electronics EngineeringDr. J. J. Magdum College of Engineering, Jaysingpur - 416 401

Email: komalpatilnew32@gmail.com /bhoisanket2703@gmail.com[2]399patil@gmail.com[3]/

ABSTRACT

Recently, Unmanned Aerial Vehicle (UAVs) has cached lots of instructed researchers developing them. They are numerous applications such as agriculturepesticide spraying drones, security drones, and surveillance drones for providingmedicines to users, food packet delivery drones, etc. In this paper, the design of the prototype drone is shown for traffic monitor control and the green corridor drone has a flight time capacity of 15 minutes guidance for an ambulance givinggreen corridor to it. The drone has a wireless public address system (PA) which is controlled by traffic.

KEYWORDS- DRONE, GREEN CORRIDOR, PUBLIC HEALTH,TRAFFIC CONTROL, UAV

INTRODUCTION

Approximately two to five percent of a counter's gross domestic is lost to traffic congestion. With increasing industrialization, urbanization & population, there hasbeen tremendous growth in traffic. With growingtraffic, these are rise in problems.Which include traffic jams faced by ambulances fire brigades & other vehicles. Emergency vehicle benefit is enormously influenced since of activity. Delays in coming to the clinic may lead to the misfortune of life of a persistent. These thingsrequire a Expedient. The Deane Rules (unused Rules) 202) characterizes plan as "an air ship that can work independently or can be worked remotely, without a piloton board. Rambles are moreover known as unmanned flying machine frameworks.However, with technologicaladvancements, their use for civilian purposes & has

evolved in recent years. Drones provide productivity & efficiency at low costs for a variety of activities. Most drones have a present day built-in Cameras, Speaker, conveyance, etc. The observation employments of unmanned airborne vehicles (UAVs) have developed since of their capacity to function in unsafe areas whereaskeeping their human administrators at a secure remove. The bigger UAVs to give adependable long length, cost-effective, stage for surveillance as well as weapons. They have developed to gotten to be an vital instrument for the military. The addresswe postured for the extend was whether little UAVs moreover had utility in militaryand commercial/industrial applications.

HEADLINE

In this paper, the design of the prototype drone is shown for traffic monitor controland the green corridor drone has 15 minutes guidance for ambulances giving greencorridor to it. The drone has a

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

National Conference on Emerging Trends in Engineering & Technology(NCETET-2023)
Bharati Vidyapeeth's College of Engineering, Kolhapur
Date: 31st March 2023
ISBN : 978-93-91535-44-5

Fire Fighting Robot

Mrs. Manisha Phutane[1], Vinesh Kamble[2], Dhanappa Chikkalaki[3]

1Assistant Professor Dept. of Electronics and Telecommunication,
Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra,India
2,3 Student Dept. of Electronics and Telecommunication,
Dr. J. J. Magdum College of Engineering, Jaysingpur , Maharashtra, India

ABSTRACT

With the development in the field of robotics, human intrusion has become less and robots are being widely used for safety purpose. In our day-to-day lives, fire accidents have become common and sometimes may lead to hazards that make it hard for the firemen to protect human life. In such cases, a firefighting robot is used to guard human lives, wealth and surroundings from the fire accidents. Here we implement two modes of robotic operations- Manual mode & Automatic mode.In the Manual mode, PHP webpage is used to control the robotic vehicle. In Automatic mode, the robot takes controls by itself based on the user predefined command. To detect fire we use OpenCV for image processing. Standard colors of fire are defined by upper and lower boundaries of HSV color spaces of red, orange and yellow. The water spraying mechanism is completely automatic to both the modes. In the PHP webpage we have a control to switch between manual and automatic modes based on our choice.

INTRODUCTION

As robotic Technologies have improved and has been an integral part of our lives lots of people have made attempts to find an alternate for human work and efforts with new improvement in technology of embedded design particularly when people risk the lives during fire hazards. This allows robots to act to their full potential and understand complex and difficult scenarios aftermath of a disaster however it would be effort full if the robots fight against fire hazards rather than responding after the occurrence of the hazard. The need for production systems in cities and major towns has been mandatory and this robot has been built to match the difficult environment of such topographical areas. The basic idea is to implement fire sensors positioned by estimation of the range of fire radiation. There are smoke detectors and gas detectors which are normally cheap and easy solution for fire detection. What recent developments that includes distributed fire optic temperature sensors which are used to extinguish fire. This module uses wireless sensor structures ultrasonic sensors that senses obstacles and moves according to the detected obstacles. Digital image processing technique has been used with color video pictures and it could sense the flames.

LITERATURESURVEY

1.The proposed model is able to detect presence of fire using flame sensor and calculates object distance using

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Fire Fighting Robot Using Microcontroller

Vinesh Kamble, Dhanappa Chikkalaki, Mrs. Manisha Phutane

Electronics and Tele communication, Shivaji University
Electronics and Tele communication, Shivaji University
Electronics and Tele communication, Shivaji University

ABSTRACT

With the development in the field of robotics, human intrusion has become less and robots are being widely used for safety purpose. In our day-to-day lives, fire accidents have become common and sometimes may lead to hazards that make it hard for the firemen to protect human life. In such cases, a firefighting robot is used to guard human lives, wealth and surroundings from the fire accidents. Here we implement two modes of robotic operations- Manual mode & Automatic mode.In the Manual mode, PHP webpage is used to control the robotic vehicle. In Automatic mode, the robot takes controls by itself based on the user predefined command. To detect fire we use OpenCV for image processing. Standard colors of fire are defined by upper and lower boundaries of HSV color spaces of red, orange and yellow. The water spraying mechanism is completely automatic to both the modes. In the PHP webpage we have a control to switch between manual and automatic modes based on our choice.

INTRODUCTION

As robotic Technologies have improved and has been an integral part of our lives lots of people have made attempts to find an alternate for human work and efforts with new improvement in technology of embedded design particularly when people risk the lives during fire hazards. This allows robots to act to their full potential and understand complex and difficult scenarios aftermath of a disaster however it would be effort full if the robots fight against fire hazards rather than responding after the occurrence of the hazard. The need for production systems in cities and major towns has been mandatory and this robot has been built to match the difficult environment of such topographical areas. The basic idea is to implement fire sensors positioned by estimation of the range of fire radiation. There are smoke detectors and gas detectors which are normally cheap and easy solution for fire detection. What recent developments that includes distributed fire optic temperature sensors which are used to extinguish fire. This module uses wireless sensor structures ultrasonic sensors that senses obstacles and moves according to the detected obstacles. Digital image processing technique has been used with color video pictures and it could sense the flames.

LITERATURESURVEY

1.The proposed model is able to detect presence of fire using flame sensor and calculates object distance using ultrasonic sensor and moves the robot to fire accident location. It contains gear motors and motor driver to control the movement of robot. When it detects fire it communicates with microcontroller (Arduino MEGA) and the robot will move towards the fire affected area. [1]

2.Robot is a machine that seems as though a person and performs different complex assignments.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

DESIGN & OPERATION OF AGRICULTURE BASED PESTICIDESPRAYING & GRASS CUTTING ROBOT

NAMRATA SUNIL SHETTI, SNEHAL PRABHAKARKOSHTI, PROF. M. M. KOLAP

Student, Dept of Electronics & Telecommunication,Dr.J.J.Magdum College of Engineering,Jaysingpur,

Head Of Department, Department of Electronics &Telecommunication, Dr.J.J.Magdum College of Engineering,Jaysingpur,

Email: namratashetti14@gmail.com/mandar.kolap@jjmcoe.ac.in

ABSTRACT:

Spraying pesticides manually outdoors can be challenging due to factors like an open environment and unfavorable weather conditions. To minimize the risks associated with manual spraying and reduce labor intensity, a team developed a pesticide spraying robot specifically for use in a greenhouse. The robot is powered by an 8051 microcontroller and can be controlled using an Android mobile app. The app features remote buttons that allow the user to direct the robot's movement, and the robot's controller is interfaced with a Wi-Fi module for communication between the app and the robot. While the productivity of the prototype may not be optimal, the robot is designed to meet the requirements of pesticide spraying and grass cutting in a greenhouse environment, without the need for human operators. The benefits of using a robotic system in this context include consistent output, quality, and repeatability.

KEYWORDS: Agriculture Robot, Microcontroller, ULN2003a, DC Pump, DC Motor, Cutter, Embedded C

INTRODUCTION:

Since the 1970s, China has made significant progress in popularizing plastic greenhouses and advanced planting techniques, resulting in substantial economic and social benefits. Presently, China has emerged as the world's leading producer of greenhouse crops. However, there are still gaps in greenhouse production management and automation compared to more developed countries. Farmers in China often work under primitive conditions, enduring high temperatures, humidity, and poor ventilation for extended periods. In contrast, developed countries like Japan have achieved a high level of automation in greenhouse management and are advancing towards fully automated, unmanned systems known as "plant factories." These facilities utilize robots and robotic arms for cultivation, liberating them from the constraints of natural conditions. Therefore, it is crucial for China to improve the automation level of greenhouse production equipment and develop agricultural techniques to meet the demands of the new era. The rapid advancements in smartphone technology, including enhanced processors, larger storage capacities, entertainment features, and various communication methods, have made them powerful devices. The introduction of Wi-Fi technology has revolutionized the way people use digital devices, eliminating the need for traditional wired connections. The concept of using a smartphone as the central control unit for robots has gained

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

IOT Based Smart Helmet

Saniya Haroon Nadaf, Ranjeet Balaso Shinge, Prof. M. M. Kolap

Student, Dept of Electronics and Telecommunication,

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Head of Department, Department of Electronics and Telecommunication

Dr. J. J. Magdum College of Engineering, Jaysingpur,

Email: nsaniyan228@gmail.com/mandar.kolap@jjmcoe.ac.in

ABSTRACT:

Abstract— As we know India is second most populated country and has a large youth population, nowadays youth are fond of bikes and because of fashion, they neglect wearing helmet. Because of these, bike accidents are increasing day by day which causes deaths. Major deaths are due to head injuries which can be prevented by wearing a helmet. Drunk and drive cases are becoming more, which causes accidents and due to lack of negligence where an accident occurs and people are dying. These incidents made us develop a smart helmet using internet of things which reduce the accidents and risk of deaths, which has following features, the bike starts only if the rider wears a helmet if the rider is over drunken then the ignition will be automatically offed and if any accident occurs then through GSM modem it will send the message to the registered contact number by using a sim card. There is a speed lock by 60km/hr if the rider is exceeding speed above 60 buzzer will start beeping.

This smart bike helmet system will have two modules, one on the helmet and another one on the bike. Alcohol sensor and helmet sensor (i.e., switch) are attached with the helmet module and vibration sensor, GPS and GSM are connected with the module on the bike. These two modules communicate wirelessly using RF transmitter and receiver with encoder and decoder, using 8051 microcontroller.

Keywords— GSM modem; Internet of things; Ignition; Smart helmet

I. INTRODUCTION

We have invented a new design of a SMART HELMET FOR BIKE RIDER'S SAFETY as set of forth in the following specification. The claimed portion of the design of the SMART HELMET FOR BIKE RIDER'S SAFETY consists of A Smart Helmet is a type of protective headgear used by the rider which makes bike driving safer than before. The main purpose of this helmet is to provide safety for the rider. This can be implemented by using advanced features like alcohol detection, accident identification, location tracking, use a hands-free device, fall detection. This makes it not only a smart helmet but also a feature of a smart bike. It is compulsory to wear the helmet, without which the ignition switch will turn on but there was an alarm will start beeping for warn the rider; even if rider don't wear it, the message will go to RTO. An RF Module can be used as wireless link

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

AUTOMATIC FILLING AND WEIGHING MACHINE BY USING ANDROID APPLICATION

PRASAD POPAT BABAR, BHAGYASHREE SAMBHAJI SONAWALE, PROF. P. P. BELAGALI

Student, Dept of Electronics & Telecommunication,

Dr.J.J.Magdum College of Engineering,Jaysingpur,

Head Of Department, Department of Electronics & Telecommunication, Dr.J.J.Magdum College of Engineering,Jaysingpur,

Email: prasadbabar469@gmail.com/ppbelagali@gmail.com

sonawalebhagyashree@gmail.com

ABSTRACT:

Many small scale food production business owners and small land medium scale Grocery Store owners do the process of weighing and packaging their product manually. Small and Medium scale food production business owners who particularly produce items like 'Rise' etc. has to do the weighing, filling and packaging process manually.

This project aims to develop such a machine which automatically weighs and fill the food with the help of microcontroller and sensors. Then idea is to manually place the bag, then automatic weighing and filling is done. The purpose of doing this project is to reduce human efforts and time consumption. The major advantage of this project is to decreasing machine cost. The machine design is based on simple mechanisms and it can be installed easily. The speed of weighing will result the more production and business. This process will reduce the number of paid workers.

KEYWORDS: sensors, microcontroller, weighing machine, Arduino

INTRODUCTION:

Nowadays, automation in the industry becomes the global trend in manufacturing The Automatic Weighing and filling machines are fully automatic multi-head weighing and filling machine. The machine is used for weighing & filling, seeds, vegetables, pharmaceutical and coffee industry .It can wrap the production 10grams to 100's of kilogram of pouches and sachets and bags. It fills the product in the bags and then seal the product centrally. It is based on draw bar mechanism or belt draw down mechanism.

1. Automation using the microcontroller
2. Filling of material into the jar

Industry automation becomes the global trend in manufacturing, packaging process is one of the most uses in industry: more and more companies are switching to automation. This project is devoted to the use of automatic control system in process machine system; the

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Speed Breaker Through Power Generation

PROF V.T. KAMBLE , CHETAN S PATIL, ANIKET S PATIL

Student, Dept of Electronics & Telecommunication, Dr.J.J.Magdum College of Engineering,Jaysingpur,

Professor, Department of Electronics & Telecommunication

Dr.J.J.Magdum College of Engineering,Jaysingpur,

Email:aniket.patil14032000@gmail.com , vinay.kamble@jjmcoe.ac.in

ABSTRACT

Nowadays conventional energy sources generate most of the energy of today's world. But the population is increasing day by day and the conventional energy sources are diminishing. Moreover, these conventional energy sources are polluting and responsible for global warming. So, nonconventional sources are needed to be developed for power generation which are clean, environment friendly and sustainable. In this research we propose a renewable non-conventional energy source based on speed breaker mechanism. Our project is to enlighten the streets utilizing the jerking pressure which is wasted during the vehicles passes over speed breaker in roadside. We can tap the energy generated by moving vehicles and produce power by using the speed breaker as power generating unit. The kinetic energy of the moving vehicles can be converted into mechanical energy through rack and pinion mechanism and this mechanical energy will be converted to electrical energy using generator which will be used for lighting the street lights. Therefore, by using this mechanism we can save lot of energy which can fulfil our future demands

1.INTRODUCTION-

In today's life power has become the basic need for human life. Everywhere energy is an important in all the sectors of any countries economy. We are using conventional source of energy like fossil fuels which are on stage of finishing, but there is a fear that they will get exhausted eventually by the next few decades. Therefore, we have to find some other types of renewable sources to rely on. The increase in population and decrease in conventional sources for power generation, makes us to think on nonconventional energy resources. Pollution is another major problem, which is becoming the exiting topic for today. Power stations and automobiles are the major pollution producing places. So nonconventional power source is needed to reduce this problem. We proposed a non-conventional power generation system based on speed breaker mechanism which generate electricity without using any conventional energy source, that's why there is no issue of pollution and all. In this paper, our aim is to conserve the kinetic energy produced by passing vehicles or people over speed breaker, which is then converted into electric energy.

2.RELATED WORK-

As we all know when there is group of people at the place of work then there will be many things

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

CONSTRUCTION SITE INSPECTION BY USINGDRONE OR UAV

PROF. DR.D.A.NIKAM[1], VIVEK SANJAYKUMAR ADMUTHE[2], RUSHIKESH KRISHNA PATIL[3], NISHCHAY PRADIP BHOKARE[4]

[1]HOD, Computer Science & Engineering, Shivaji University Kolhapur, India.

[2,3,4] Student, Computer Science & Engineering, Shivaji University Kolhapur, India.

ABSTRACT

The objective of this paper is to perform the innovative idea for the new structures of Constructure Site inspection, in civil sector, currently ongoing constructions sites are monitored manually which time consuming and also need human energy, time & cost, so to overcome this problem we are trying to develop this system. Our Construction Site Inspection by using Drone or UAV is based on organized real- time data that is gathered using a variety of cutting-edge instruments, such as drone, sensors, camera, and site photos etc. here advanced software is used to analyses the data, enabling better operations, planning and adjusting.

Keywords— Construction Site, Inspection, Monitoring, Drone.

INTRODUCTION

Construction site inspection drone or unmanned aerial vehicle (UAV) is based on organized real-time data that is collected using a variety of cutting-edge tools, including a drone, sensors (photo/video camera, imaging camera, and sensors, etc.) A weekly, biweekly, or advance information preparation of the construction of work progress control over and compliance monitoring for workplace safety and security is necessary to obtain the high-resolution photos and videos. We are developed this system since the monitoring of active construction sites in the civil sector at the moment is labour- intensive, time-consuming, and expensive. Using drones for construction site inspection can provide several benefits compared to traditional methods. Drones can capture high- quality images and videos from various angles and heights, allowing for a more comprehensive view of the construction site. Drones can capture high-resolution images and videos of the construction site from various angles, which can be used tocreate 3D models and maps. These models and maps can be used to track the progress of the construction project and identify any delays or issues that may arise. Drones can capture information about the construction site quickly and efficiently, which can save time and reduce costs compared to traditional inspection methods. Additionally, drones can beused to identify potential issues early on, which can help to prevent costly delays and rework. Overall, the use of drones or UAVs for construction site inspection provides a range ofbenefits and can help to improve safety, quality, and efficiency on construction project.

LITERATURESURVEY

"An overview of using drones for construction site inspections" by J. Seo and M. Al-Hussein. This paper providesan overview of the benefits of using drones for construction site inspections, including increased efficiency, accuracy, and safety."Drone-based monitoring and inspection of construction

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

URBAN EMERGENCY EVENT DETECTION USING SOCIAL MEDIA

DR. D. A. NIKAM[1], SAURABH DAWARE[2], PRIYANKA BAMNALE[3],AISHWARYA PATIL[4]

[1] HOD, dept. of Computer Science and Eng., Dr. JJMCOE, Jaysingpur, MH

[2,3,4] Student, dept. of Computer Science and Eng., Dr. JJMCOE, Jaysingpur, MH

ABSTRACT

Natural disasters have become an ever-present threat in urban areas, putting the lives of millions of people at risk. Real-time detection of urban emergency events, such as fires, storms, and traffic jams, is crucial for the efficient management of disaster responseefforts. With the rapid growth of social media platforms, particularly Twitter, they have become an important source of real-time information during such events. In this researchpaper, we propose an artificial intelligence-based real-time disaster response system thatutilizes Twitter data to provide situational awareness during natural disasters. Theproposed system utilizes machine learning algorithms to mine relevant information fromTwitter feeds and presents it to disaster relief volunteers, assisting them in their duties amidst the chaos. We evaluate the proposed system's performance using real-world disaster scenarios and demonstrate its effectiveness in providing accurate and timely information to disaster relief workers. Our results show that the proposed system has thepotential to enhance disaster response and recovery efforts by providing real-timeinformation and support to relief workers on the ground, improving the overall effectiveness of disaster response efforts.

Key words: Artificial Intelligence, Disaster Response, Natural Language Processing, Social Media, Twitter.

INTRODUCTION

An urban emergency situation necessitates an urgent response or aid. Due to its real-time,public nature and the widespread use of the World Wide Web, the internet is increasinglybeing used to provide and disseminate information about emergency situations. This gives us really good advantage to detect and track emergency events happening around the globe.

Disaster response and management are complex tasks that require timely and effective actions to minimize the impact of a disaster on affected communities. One of the key challenges in disaster management is the timely detection and response to urbanemergency events, such as fires, storms, and traffic jams. Online social media, particularly Twitter, Facebook, and YouTube, have evolved in recent years as a tool for affected local populations to share their experiences with the world during humanitariancrises. Now that more individuals are using technology and most uploaded communications are accessible to the general public, it is possible to access real-time information from thousands or millions of people on the ground. Social media platforms,particularly Twitter with over 1 million daily active users, have emerged as a novel sourceof information for detecting and

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

National Conference on Emerging Trends in Engineering & Technology

CERTIFICATE

BHARATI VIDYAPEETH PUNE

ISTE INDIAN SOCIETY FOR TECHNICAL EDUCATION

NCETET 2023

ISBN: 978-93-91535-44-5

This is to certify that

Dr. D. A. Nikam

has presented and published a paper titled

Customer Mall Segmentation

during the National Conference NCETET-2023 with ISBN : 978-93-91535-44-5

held on 31st March 2023

Organized By Bharati Vidyapeeth's College of Engineering, Kolhapur

&

International Association of Research and Developed Organization

[Under the Banner of India Educational Charitable Trust (Regd.)] Ghaziabad (India)

NCUGB-1

in collaboration with:

Mr. R.R.Suryawanshi	Dr. K.R.Desai	Dr. V.R.Ghorpade	Dr. Atul Kumar Sharma
Convener	HOD(E&TC)	Principal	Director IARDO

www.iardo.com www.conferenceworld.in www.isthe.org

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

SMART SHOPPING TROLLEY

MRS. A. V. GUNDAVADE[1], AAKANKSHA BHARAT KUMBHAR[2], SIDDHI SHRIRANG KUNDALE[3], RUTUJA VIJAY PATIL[4]

[1]Asst. Professor, Department of Computer Science EngineeringDr. J. J. Magdum College of Engineering, Jaysingpur

[2,3,4]Student, Dept of Computer Science and Engineering,Dr. J. J. Magdum College of Engineering, Jaysingpur ,

Email: tanujasawant171@gmail.com/archana.gundavade@jjmcoe.ac.in

ABSTRACT

The advancement of technology has brought about many conveniences in our daily lives, including in the supermarket where customers often have to wait in long queues during peak hours, especially during discount offers or weekends. This has led to the need for a contactless system, which is not only more time-efficient but also beneficial for public health. To address this issue, a project has been developed to create a contactless shopping experience using a Raspberry Pi-based system. The system is equipped with load cells, sensors, and motors integrated into the shopping trolley, which also features a barcode scanner. Once the shopping is complete, the system generates a bill and sendsit to a designated app. The user can then make payment using the app's wallet, and once payment is confirmed, the trolley door will unlock, and the user can collect their purchases. This innovative solution aims to improve the supermarket shopping experience by reducing wait times and minimizing contact between individuals, thus promoting public health and safety.

KEYWORDS: Smart shopping Trolley, Barcode Scanner, Raspberry Pi, LCD Display, Android Studio,Weight Sensor, Python.

INTRODUCTION

The electronic technology of today is mainly based on embedded systems, with the aim of makinglife easier for people. Shopping malls are a popular destination for people to purchase their daily necessities. However, the traditional shopping method of using a trolley and standing in long queues for billing is time-consuming, which is not ideal for the busy lifestyle of today's generation. Hence, it is necessary to develop a smart shopping trolley system that can provide real-time status updates of the trolley and its contents. The system can be monitored using sensors, such as weight sensors, that are capable of transmitting data via the Internet of Things (IoT) network. This makes the monitoring process more efficient, faster and decisions can be made in less time. The smart trolley also features a barcode scanner to eliminate the need for manual scanning of each item during billing,saving time for both customers and retailers. The system is reliable, user-friendly, and helps to avoidstanding in long billing queues. The use of an LCD display makes it easier for users to view the values of present and maximum capacity. The paper's aim is to provide a smart shopping trolley system that is efficient and user-friendly, enhancing the overall shopping experience for customers.

Dr. J. J. Magdum College of Engineering

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

CHATTERY THE CHATBOT

[1]PROF. A.V. GUNDAVADE, [2]PRATIKSHA GAVALI, [3]HASNAIN LAKHANI, [4]BISHAL MALAKAR

[1]Assistant Professor, CSE, Department of Computer Science and Engineering, Dr. J. J. Magdum College of Engineering,Jaysingpur, India

[2,3,4] Student, CSE, Department of Computer Science and Engineering, Dr. J. J. Magdum College of Engineering,Jaysingpur, India

Email: hasnainrazalakhani7212@gmail.com

ABSTRACT

Chatbot is widely popular now-a-days and catching speed as an applicationof computer communication. Some programs respond intelligently like human. This type of program is called a Chatbot. This paper addresses the design and implementation of a Chatbot system. We will also study anotherapplication where Chatbots could be useful and techniques used while designing a Chatbot.

Speech and textual Information play a crucial role in communication between humans. Article in "The New York Times" published that now-a-days the adults are spending more than 8 hours a day on screens ofcomputers or mobiles. A chatbot based conversation user interface fits intothe class of bots that have existed in the chat platform. The user can interact with them via graphical interface or widgets and the trend is in thisdirection.

Chatbot are an Artificial Intelligent (AI) and Natural Language Processing (NLP) algorithms. It was an effective user interface and answers the queries.Chatbot can also help with creating course modules, setting and monitoringassignment deadlines, and lesson plans.

INTRODUCTION

Chatbots are considered to be a technology application model that effectively promotes interpersonal communication and learning; they provide various typesof information and knowledge through interactive methods and easy-to- operateinterfaces. and can even be used as a tool for personal consultation (Muniasamy&Alasiry, 2020; Poncette et al., 2020; Yamada et al., 2016). As the popularity of mobile technology grows, chatbot interactive learning method andthe characteristics of not being restricted by time and place are making their useincreasingly popular (Zhou et al., 2020). In recent Years a growing number of studies have explored the ways and effects of chatbot application in education (Ferrell & Ferrell, 2020). Several studies have revealed the benefits of using chatbot in school settings, including providing users with a pleasant learning experience by allowing for real-time interaction (Kim et al., 2019), enhancing peer communication skills (Hill et al., 2015), and improving learners' learning efficiency (Wu et al., 2020). With the advancement of Artificial Intelligence (AI)technology, scholars have begun to apply machine learning and natural language technology to the development of chatbot, making their application in education.Academicresearch (Folstad&Brandtzæg, 2017). Smutuny and Schreiberova (2020) pointed out that these new technologies will enable chatbot to become a smart teaching assistant in the future; they also encouraged teachers to use AI- based chatbot in classroom activities. On the other hand, although some recent studies have conducted literature reviews on chatbot-related studies (Abd- alrazaq et al., 2019, 2020; Bendig et al., 2019; Kennedy et al., 2012), these review studies mainly focused on the research of chatbot in health care rather than in education. That is, there has been no review

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

E-HEALTHCARE CLOUD SOLUTION

SNEHA SATPUTE[1], MAHESH SIDDHU DHANGAR[2]

PRATIK RAJENDRA JATRATE[3], SOURABH BAPUSO KOLE[4]

[1]Assistant Professor, Dept. of Computer Science and Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur- 416 101

[2,3,4] B.Tech. Students, Dept. of Computer Science and Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur- 416 101

Email: sneha.satpute@jjmcoe.ac.in[1]/mdhangar0701@gmail.com[2]
pratikjatrate2972@gmail.com[3]/sbkole10@gmail.com[4]

ABSTRACT

In the past, hospitals received patient reports in the form of documents. Patient reports will have additional room to be stored. It takes a long time to locate a patient's paperwork when they are an elderly patient at the hospital. The report on the documentation is not secure. The document can be readily destroyed by anyone. The E-health cloud solution will save each patient report on the cloud, and it was developed to stop all of this. Data will be protected and secured in this.A new method of providing computing resources and services is cloud computing. It can enhance healthcare services, advance healthcare research, andalter the landscape of health information technology, according to several managers and experts. The information is crucial for making decisions and providing patients with the best care. Real-time data collection, storage, and interchange between healthcare institutions are all made possible using cloud computing, which is a cost-effective technique. High throughput and high- volume storage are two characteristics of cloud infrastructure that are crucial foreffective data processing of a big patient population. One of the main issues withemploying cloud-based healthcare services is security and privacy. Data securityis still one of the main issues with cloud computing, and recent high-profile assaults in the healthcare industry have made it much more of a problem. The encryption method needs to be swift. Hence, user authentication in the cloud requires a dynamic solution that uses several authentication credentials. Advanced Encryption Standard (AES) Algorithm system that incorporates manyelements, such as an OTP for cloud user authentication.

Key words: cloud, AES

INTRODUCTION

Patient registration, data storage is all included in this project. Every patient's information can be stored on the website. With the username, users can look fora doctor's availability and a patient's information. With the use of a username andpassword, the patient can access it. The information is simple to retrieve. The user experience is excellent. The data is securely safeguarded for personal use, which speeds up data processing. It is strong, adaptable, and simple to use, and itwas created with the intention of providing hospitals with the most tangible advantages possible. It is intended for hospitals and will cover a variety of hospital management and administration processes. In order to enable efficient decision-making for patient care, hospital administration, and crucial financial accounting, it is an integrated end-to-end hospital management system that distributes pertinent

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

FACE RECOGNITION ATTANDANCE SYSTEM

[1]PROF. P. S. AMBUPE

[1]Department of computer science& EngineeringDr. J. J. Magdum College of Engineering Jaysinpur

ABSTRACT

There is a need to develop a real time operating student attendance system whichmeans the identification process must be done within defined time constraints to prevent omission. The extracted features from facial images which represent the identity of the students have to be consistent towards a change in background,illumination, pose and expression. High accuracy and fast computation time will be the evaluation points of the performance.

INTRODUCATION

Attendance marking in a classroom during a lecture is not only task but also a time consuming one at that. Due to an unusually highnumber of students present during the lecture there will always be a probability of proxyattendance. Attendance marking with conventional methods has been an area of challenge. The growing need of efficient and automatic techniques of marking attendanceis a growing challenge in the area of face recognition. In recent years, the problem of automatic attendance marking has been widely addressed through the use of standard biometries like fingerprint and Radio frequency Identification tags etc., However, these techniques lack the element of reliability. In thisproposed project an automated attendance marking and management system is proposed by making use of face detection and recognitionalgorithms. Instead of using the conventional methods, this proposed system aims to developan automated system that records the student'sattendance by using facial recognition technology. The main objective of this work is to make the attendance marking and management system efficient, time saving, simple and easy. Here faces will be recognized using face recognition algorithms. Theprocessed image will then be compared againstthe existing stored record and then attendanceis marked in the database accordingly.

Compared to existing system traditional attendance marking system, this system reduces the workload of people. This proposed system will be implemented with 4 phases such as Image Capturing, Segmentation of group Image and Face Detection. Face comparison andRecognition. Updating of Attendance in database.

LITERATURE VIEW

Arun Katara et al. (2017) mentioned disadvantages of RFID (Radio Frequency Identification) card system, fingerprint system and iris recognition system. RFID card system isimplemented due to its simplicity.

2.1 Viola Jones Algorithm :-

Viola-Jones algorithm segment from static images or video frame. And also 2. High detection to localize the face Speed.

HighAccuracy

Local Binary Pattern Histogram Local Binary Pattern (LBP) is a simple yet very efficient texture operator which labels the pixels of an image by thresholding the neighborhood of each pixel and considers the result as a binary.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

MALE VIKAS CO-OPERATIVE SOCIETY

PROF. P.V. KOTHAWALE[1], HARSHAL RAJGONDA CHANDOBA[2], RADHIKA RAOSAHEB BHOSALE[3], NUTAN RAJENDRA SAWANT[4]

[1] Professor of Dept, Computer Science and Engineering, Dr. J. J. Magdum College of Engieering, Jaysingpur

[2,3,4] Student of Dept, Computer Science and Engineering, Dr. J. J. Magdum College of Engieering, Jaysingpur

ABSTRACT

This website will helpful for society members for accessing their own information. Society allows overdraft facility to their members so whenever member needs money he can even withdraw more money. The security is also provided. The people who live in village they may be owner of society or member.

The board of directors of the society has been obliged to submit the annual work report every year after the end of March and it has to be audited every year. Due to this, there is a possibility of curbing the malpractices in the societies to a large extent.

Co-operative society website in this era, people are very busy with their routine work. The time for visiting co-operative society and then filling application for loans, No Objection Certificate, various loans, certificates people need to spend lot of time in it.

We have developed the system for co-operative society, so that society members can apply for loan, track status of loans, get certificates & complain form anywhere any time and then co-operative resolve the Complain as soon as possible.

The main aim of this site is to apply for loans, track status of loan, lodge complaint easily by visiting website. Who can use the system? In this society helping system there are three types of users one is Admin, member of society and the third rest of all other people.

The Purpose of Male Progressive Co-operative Society Website is to Automate the existing manual system by the help of computerized equipment fulfilling their requirements, so that their valuable data & audit information records can be stored for a longer period with easy accessing and manipulation of the same. The aim of Website is to Provide Good Performance and Better services to the clients (Stakeholders) of the society.

INTRODUCTION

The Male Progressive Co-operative Society Website system has been developed to override the problems prevailing in the practicing manual system. Website is designed for the particular need of the Progressive Co-operative Society to carry out operations in smooth and effective manner. It is user friendly Online Cooperative Society Website, it can assist the User to access Services of society and records conveniently. Thus it will help organization in better utilization on resources which will be accessible on a single click The largest organization providing loans to farmers at the village level is the various working societies. In rural areas, as loans are provided to farmers through various

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

WOMEN SECURITY ANDROID APPLICATION

SNEHAL FARANDE[1], SNEHAL BHANASE[2], KSHITIJA CHAVAN[3], PRANAV GIDDE[4]

[1]Assistant Professor, Dept. of C.S., Dr. J.J. Magdum College of Engineering, Jayasingpur, India

[2,3,4]B. E Student, Dept. of C.S., Dr.J.J. Magdum College of Engineering, Jayasingpur, India

Email: snehalbhanase@gmail.com

ABSTRACT

In today's world Victimization sensible phones having multiplied chop-chop and thence sensible phone may be used expeditiously for private security. A bunch of latest apps are developed to produce a security system to girls via their phones. per the reports of World Health Organization NCRB Social Government Organization thirty-fifth girls everywherethe planet square measure facing a great deal of unethical Physical Harassment publicly places like Railways, Bus stands and pathway, etc. during this Paper, we've got reviewed of assorted existing systems on women security. we've got fade arequirement of advanced girls security system to provides thesafety live publicly places likewise as travelling alone throughpublic transports such as college Buses, Company Vehicles etc. This paper projected a brand new model for the women security publicly places that aims to produce the 100% safe setting. Hence, GSM is most popularly-liked for this mode ofdominant in this application we square measure maintaining aswitch. We offer numerous varieties of ways to access.

INTRODUCTION:

Crime control, public security especially women security are serious concerns for any country around the world. Police and various intelligence agencies constantly work for the same. Despite constant efforts, patrolling and using different types of technologies, equipment and methods like CCTV surveillance regularly, aerial inspection through simple camera drones (for serious cases) to control the crime, a significant change could not be observed. Moreover, Women protection is still a serious issue in various countries like India. Gender ideologies in India have seen an improving sign among all people within the society in upbringing the social status of women in different workplaces and environments but the status of women security Remains the same or has been worsened. So, we develop a System who find the safest path for the women while she is going outdoors alone. And also we provide safety to that women when she is in the trouble or in the helpless condition, she can also notify the situation to the family members or to the nearest police stations. In the present scenario, women are keeping pace with men in every walk of life but unfortunately at cost of being subjected to abuse, harassment, and violence in public and even at their own houses. They cannot step out of their houses at any time of the day, cannot wear clothes as per their will, nor can they even go for work in peace. There is some kind of inhibition that women are subjected to which not only takes away their sense of freedom but also shatters their confidence and dreams. Women who feel helpless and facing social challenges can use this system. Woman Safety Program would provide a women to predict a safe place at a given time and could place a SMS alert to the nearest Police department. The program would give the SMS alert to the Police Authorities with the geographical location. Any women / girl can use this system.

LITURATURE SERVE

Author: prottaashaGhosh, TanjimMasroorBhuiyan (2022)

2023 World Conference on Communication & Computing (WCONF)
Raipur, India. July 14-16, 2023

Image Inpainting for Fingerprint Reconstruction

Milind Bhilavade
Electronics Engineering department
Research Student, VTU
Belagavi, India
milind2006@gmail.com

Meenakshi R Patil
Electronics and Communication Engineering department,
CMR Institute of Technology
Bengaluru, India
meenakshirpatil@gmail.com

K S Shivaprakasha
Department of Electronics and Communication Engineering
N. M. A. M. Insitutte of Technology
Nitte, India
shivaprakasha.ks@nitte.edu.in

Lalita S Admuthe
Electronics Engineering department,
DKTE'S College of Engineering
Ichalkarangi, India.
ladmuthe@gmail.com

Anupama S Awati
Electronics & Communication Engineering Department, KLS Gogte Institute of Technology,
Belagavi, India
asawati@git.edu

***Abstract*— Numerous digital authentication systems have been developed by the researchers over the decades. Finger print-based identification is still widely used due to its many advantages. This is one of the most extensively used methods for employee identification in many organizations. It is most popular system adopted by corporate and private organizations for their employee monitoring. Digital gadget subscribers are also increasing tremendously over the decades. Most digital gadgets available in market uses fingerprint based user authentication. Under all these circumstances effective user identification is crucial which even include identification with damaged fingerprint impressions. It has been observed that owing to slight finger cuts or various scratches during winter season or burns of the finger screen affect the fingerprint impression. They appear damaged to interfere with the accuracy of user identification. The work presented in this paper investigates the possibilities of reconstructing the user fingerprint image using image in painting techniques. The fingerprint impression which is poor due to the skin conditions has to be reconstructed before used for authentication. The enhanced KNN-SVD method proposed here restores the damaged part of a unique fingerprint impression. The reconstructed fingerprint using.**

Keywords*— *Image Inpainting, Fingerprint, ridge reconstruction, Scratch, Finger cuts, ridge, Pores.

I. INTRODUCTION

Increasing usage of digital gadgets provided a challenge to the researchers to assure the security of the devices the users use. Since the inception of identity verifications systems using biometric fingerprints of a user has been the first choice of the researchers while developing technologies due to its unique characteristics. Fingerprint based biometric systems are the first choice of the users over the conventional system. Though there are numerous developments in biometric systems using other biometric characteristics like iris, palm, face or hybrid systems using face and fingerprints both etc. Their usages shall be observed based on its cost effectiveness. It is also required that they have good reliability. Being a minimal expensive device utilization of fingerprint based techniques are modestly popular.

Researchers have offered a wide range of fingerprint matching improvements to overcome challenges like impartial filtering and idle finger impression prints. This matching has been seen to fail anytime the user whose identity needs to be validated or proved has various scratches on their finger. The scratches that appear on fingerprint are due to the finger cuts. It has even been intriguing to see that during the winter, the fine lines that cause fingerprint scratches may emerge on fingers. Finger burns or moist fingers can also cause fingerprints to be incorrectly identified. Several researchers have suggested finger print reconstruction techniques to overcome these problems. Inpainting techniques are suggested in this work as a way to repair fingerprint damage. A cycle known as "image inpainting strategy" restores the damaged or missing area of a picture. The two main categories of image inpainting techniques are patch-based inpainting and diffusion based inpainting.

The remainder of the paper is divided into the following sections. The present context of fingerprint reconstruction methods proposed are reviewed and analyzed in section two. The third section addresses the suggested technique for recovering fingerprints using inpainting approach. The results of the research are highlighted in Section four. The paper is concluded in Section five.

II. FINGERPRINT RECONSTRUCTION METHODS

The availability of high resolution sensors used today to scan fingerprints and the increasing demand for usage of biometric based devices forced the researchers to develop accurate and precise fingerprint recognition devices. In the last two decades many fingerprint recognition systems have been proposed. To become familiar with the methodologies in use, various fingerprint recognition systems are studied during this research work. The fingerprint recognition shall be performed based on the application of usage [1], [2], [3], [4], [5], [6]. More popular fingerprint recognition systems are based on minutia [1], [2], [3]. Minutia are nothing but the ridge bifurcation, eyes, hooks, ridge ending and delta points shown in Figure 1. For level 3 features [2] we require high resolution scanners. The fingerprint image shown in Figure 1 is presented here to observe and understand the various minutiae points to be taken into consideration for matching. Though the sample picture is not scanned by the high resolution scanner, the various minutiae points\ features can be easily observed from the figure. The features shown in the figure are known as level 1 and level 2 features [2] of fingerprint.

The ridge is a thick line of a fingerprint picture. The gap between two ridges is a valley. The point on the ridge where

979-8-3503-1120-4/23/$31.00 ©2023 IEEE

3.2.2
Mech

DoctorateePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93-95478-52-0)

DESIGN AND DEVELOPMENT OF AUTOMATIC HANDBRAKE SYSTEM

Prof. V. D. PATIL, BHUSHAN PRAKASH PATIL, ANIKET KAKASAHEB SAWADKAR, VINAYAK SHARAD SHINDE

Dept of Mechanical Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 101

bbhushanpatil211200@gmail.com aniketsawadkar7531@gmail.com

vinayakshinde@gmail.com

ABSTRACT

Generally the car brake is manually operated whereas in our project work we have developed an automatic handbrake release used in car for safety purpose.

The engagement and disengagement of the car brake is done with the help of motor. Although known as an emergency brake, using it in any emergency whereas the footbrake is likely to badly upset the balance of the car and vastly increase the likelihood of loss of control of the vehicle, for example by initiating a rear-wheel skid.

Additionally, the stopping force provided by using the handbrake is small and would not comfortably slow or stop the vehicle. The brake is instead intended for use in case of emergency where the regular footbrake is inoperable or compromised. Comparing with manual brake, this is a compact design as well as striking looks having more efficiency.

Key words: Handbrake, Microcontroller, Limit switch, Relay, Motor

INTRODUCTION

In cars the handbrake is a fastening brake usually used to keep the car stationary. Automobiles have separate cable-directly connected to brake mechanism on one end and to some type of lever that can be actuated by the driver on the other end. The mechanism is often a ratchet and pawl type design with the lever on the driver's side of the car's interior. A pull handle located below and to the left of the steering wheel or a pedal located far apart from the other pedals.

To prevent the vehicle from moving the brake must be engaged. While not pulling or pushing the lever, the brake is not engaged. Accidentally leaving the brake engaged can cause excessive wear, or in cases of negligence or in emergency conditions, can cause the brakes to overheat. Most vehicles have parking brakes. This can lead to difficulty starting or moving the vehicle and results in a different vehicle's path.

Although the handbrake is the emergency brake, using it in any emergency whereas the footbrake is likely to badly upset the balance of the car and vastly increase the likelihood of loss of control of the vehicle, for example by initiating a rear-wheel skid.

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

DESIGN AND DEVELOPMENT OF OF CHAIN LINK FENCING MACHINE

PROF. M V KHARADE[1], MOHAN MAHOHAR PATIL[2] SURESH GURUBALA KOLI[3], ASHISH BALASAHEB KHARAT[4]

[1, 3,4] Dept of Mechanical Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 401

[1]Accociate professor of Mechanical Engineering

Dr. J. J. Magdum College of Engineering, Jaysingpur - 416 401

Email: mohanpatil3717@gmail.com /sureshgkoli@gmail.com[2]

ABSTRACT

A chain-link fence (also known as wire netting, wire-mesh fence, chain-wire fence, diamond-mesh fence) is a type of woven fence usually made from wire. The wires run vertically and are bent into a zig-zag pattern so that each "zig" hooks with the wire immediately on one side and each "zag" with the wire immediately on the other. This forms the characteristic diamond pattern seen in this type of fence. The manufacturing of chain-link fencing is called weaving. A metal wire is pulled along a rotating long and flat blade, thus creating a somewhat flattened spiral. The spiral continues to rotate past the blade and winds its way through the previous spiral that is already part of the fence. When the spiral reaches the far end of the fence, the spiral is cut near the blade. Next, the spiral is pressed flat and the entire fence is moved up, ready for the next cycle. The end of every second spiral overlaps the end of every first spiral. The machine clamps both ends and gives them a few twists. This makes the links permanent.

In Rhein industries there are two chain link fence making machines. The semi- automatic machine has higher production rate, but it is heavy in a weight and there are more number of drives. In semi-automatic machine the frequency of disoperationis more.

The machines consist of three electric motors of 3 HP each. The drive is provided with the help of belt and pulley. The arrangement of wire feeding is provided with the machine Also it consist of die for wire bending ,on periphery of die grooves areprovided in order to facilate proper bending of a wire.

INTRODUCTION

In Rhein Industries there are two chain link fence making machine. One machineis manual and another is automatic machine. The production rate of manual machine is lowas it weaving of links is performed manually. The automatic machine has higher productionrate than the manual machine but it is heavy in weight and there are more number of drivesthan that of manual machine. Also the frequency of disoperation is more in case of this automatic machine.

This project deals with automation of chain link fence making machine. The main aim of the projectis to reduce the weight of the machine, to increase the efficiency of the manufacturing process, to

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Scanned by CamScanner

3.2.2

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Design And Construction of an Under water Robot

Prof.R.H.YADAV[1], SHIVRAJ SATISH KADAM[2]

VEDANT SUNIL PATIL[3], SHERYAS SANTOSH KHOMBARE[4]

[1,2,3,4,5] Dept of Mechanical Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 401

[1]Assitant professor

Dr. J. J. Magdum College of Engineering, Jaysingpur - 416 401

Email: shivrajkadam26@gmail.com / ravindrakumar.yadav@jjmcoe.ac.in

ABSTRACT

This synopsis describes a wirelessly controlled underwater robot that can move under water and it can be even controlled by an android smart phone very easily. An Arduino based platform in used to process, transmit and receive all information. There are many kinds of robots that have been designed and constructed with the development of computer and information processing technology. A low-cost underwater robot and its Propulsion System are complete wirelessly using the combination of a pair of Arduino board and a pair of RF module that makes our project different. Six handmade waterproof thrusters control the Propulsion System horizontally and vertically of this robot. The camera of this robot works as eyes. This robot can be used in various purpose such as underwater environmental monitoring, oceanographic survey, pipeline and subsea structure inspection, debris inspection and more related purpose

Key words: Underwater robot, Low cost, Wireless system, Waterproof, Underwater monitoring

INTRODUCTION

In recent years, apart from other robots a variety of underwater robots have been designed and constructed, which was developed by many researchers. The main aim of this underwater robot was to solve various kinds of difficult work in oceans or other source of water. The main challenge of this project was that every part of this robot should be waterproof. Researchers of CSIRO ICT Centre of Australia have successfully constructed a new robot for environmental monitoring on the Great Barrier Reef which has been focused at truly low-cost robot . A cylindrical shaped autonomous underwater vehicle whose main purposes are real-time visual simultaneous localization and mapping (SLAM), cooperative multivehicle navigation and perception-driven control was designed and constructed at University of Michigan . A long and Cylindrical-shaped autonomous underwater vehicle was designed by the researchers of Technical University of Malaysia and University of Malaysia. The Propulsion System of this robot is very smooth. A horizontal propeller of this robot moves the vehicle forward and backward, a servo turns it left and right, a water pump system moves it up and down. When water injects into the water tank in the vehicle, the vehicle gets down and when water injects out of the vehicle from the water tank, the vehicle flood on water . There is various shaped underwater vehicle that have been designed in different area of robotics. An electrical system has designed for a spherical underwater robot. It has used three vectored waterjet thrusters for its Propulsion System. Thrusters are driven by one high power DC motor and a servo motor that can change the direction of thrust .

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

International Publisher's Registered in India
& United Nations, USA
Under Aegis of "eSkillGrow Virtual University"

DoctoratePublications

11 WCSEM - June 2023

World Conference on Applied Science ,Engineering & Management

Jointly Organizing

eSkillGrow
A VIRTUAL UNIVERSITY
India, Japan, USA, Germany, Poland
ISO 9001 : 2015

&

CROWN UNIVERSITY
INT'L CHARTERED
INCORPORATED

Conference Proceedings
~~As Book~~

"An Industry Skills Oriented Research Articles"

(ISBN : 978-93- 95470 -52-0)

Authenticated & Published by

DoctoratePublications

ISBN : 978-93- 95470 -52-0)

3-2-2

DoctorateFublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Design & Development of Speed Detection Device in Car Accident

Prof. S. M. Shaikh[1]

Assistant professor of Mechanical Engineering Department, J.J. Magdum college Of Engineering, Jaysingpur

Mr. Mubin Riyaj Nadaf [2], Mr. Ruturaj Sudarshan Bhagat [3], Mr. Saurabh Popat Patil[4]

[2,3,4]Department Mechanical Engineering, Dr. J. J. Magdum college of Engineering, Jaysingpiur

mubinnadaf9286@gmail.com

ABSTRACT

This Paper Discuss How to Detect Speed and Live Location of Car/ Vehicle in Car Accident. Accident Investigation Is the Process of Determining the root cause of Accident. This paper also Discuss the problems faced in Police Investigation. Vehicular speed Is most Important Risk Factor forRoad Traffic Accidents. At any point in time, half of the drivers in urban areas are above the speed limits.

Keywords- Road Accident, Speed Detection Device, Sensors, Controller.

INTRODUCTION

Globally, about 1.25 million people die because of road traffic crashes every year. When a car accident occurs, the police generally conduct a thorough investigation of the crash scene. They may take photographs, interview witnesses, and take statements from the involved parties. Unfortunately, the policereport generated from this investigation is not always complete. It might be missing key information or it may be poorly drafted. To counter this, an independent car accident investigation is sometimes become commissioned. These investigations aim to reconstruct the event to determine what really happened. Vehicle accidents occur regularly throughout, and the number one priority after these incidents occur is determining liability so victims can recover compensation. However, these cases can incredibly complicated. Often, a vehicle accident case requires extensive investigation by law enforcement officials, insurance carriers, and attorneys involved in the case. What we will find is that the investigation begins right after an accident occurs and often continues for days, weeks, or months following the crash.

WORKING PRINCIPLE

DoctoratePublications

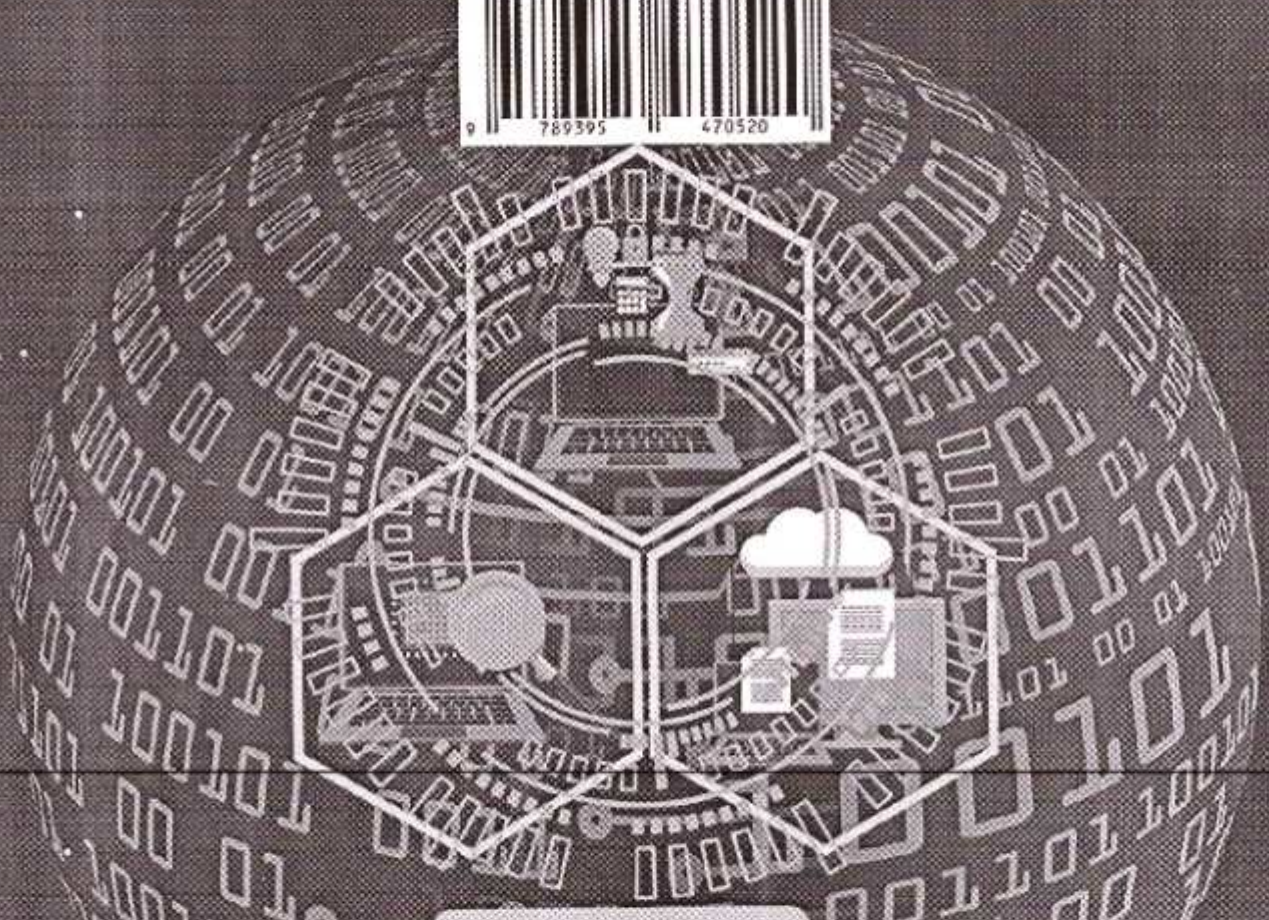
eSkillGrow

An Industry Skills Oriented Research Articles

ISBN : 978-93- 95470 -52-0

11th WCSEM - June 2023 Proceedings

ISBN 978-939547052-0



Chied Editor's

H E UNESCO Laureate Prof.Sir.Bashiru Aremu
Professor & Vice Chancellor
@Crown University Int'l Chartered Inc. (CUICI) USA

Prof.Dr .K.Mahammad Rafi
Board Member & Global Director (Online Learning)
Director - India Official Operations
@Crown University Int'l Chartered INc. (CUICI) USA
&
Founder - President @eSkillGrow Virtual University
&

3.2.2

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

DESIGN AND DEVELOPMENT OF WIRE CUT EDM MACHINE

Dr. P. R. KULKARNI[1], RUSHIKESH RAJENDRA KEKALE[2]

SHUBHAM CHANDRAKANT AINAPURE[3], PRADYUMNA RUPESHKALYANI[4], SOURABH SUNIL PATIL[5]

[1, 2,3,4] Dept of Mechanical Engineering, Dr. J. J. Magdum College ofEngineering, Jaysingpur – 416 401

[1]Associate professor of Mechanical Engineering

Dr. J. J. Magdum College of Engineering, Jaysingpur - 416 401

Email: shubhamainapure01@gmail.com /kekalerushi@gmail.com[2]

ABSTRACT

Wire electrical discharge machining (WEDM) has become a key non-traditional manufacturing process, widely used inseveral industrial sectors including aerospace and automotive.

The Wire Electric Discharge Machining (WEDM) is a variation of EDM and is commonly known as wire-cut EDM or wire cutting. The first WEDM was produced by the SWISSin 1969.

Wire Electrical Discharge Machining is a controlled machining process which is used to manufacture geometrically intricate shapes with great accuracy and goodsurface finish that are difficult to machine with the help of conventional machining processes. WEDM is now growing as an important process in variousfields; work has been done to use the technology for fabricating micro components. In this paper a review of the recent work has been done. Some properties and parameters that effects the machining performance of WEDM are also discussed

Design of experimental setup for WEDM process on AISI D3 steel fordetermination of optimum parameters

Identification of the work envelopes and levels of the WEDM process.

Design of Experimentation (DOE) using Taguchi Design of Experimentsmethod Using Minitab 18 Software.

Experimental determination of the effects of the various process parameterssuch as TON, TOFF, IP, WF.

Taguchi Analysis Using Minitab 18 Software For Finding Optimum ParametersWith Their Rank.

Parametric level optimization for process input parameters.

Key words: TON,TOFF,IP.WF,.

INTRODUCTION

New materials created and/or demanded by space age technology sometimes cannotbe economically

ISO 9001 : 2015

J. J. Magdum College of Engineering Jaysingpur Dist. Kolhapur

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

SOIL STABILIZATION BY USING HIGHLY VULCANIZED RUBBER SHEET: A REVIEW

Dr. Jagdish Lambe[1], Ajinkyaraj Raut[2] , Suraj Jadhav[3]and Sajid Mullani[4]

[1]Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, jagdish.lambe@jjmcoe.ac.in

[2] Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, ajinkyarajraut@gmail.com

3 Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,

surajjadhav3125@gmail.com

4 Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,

sajidmullani99@gmail.com

Abstract— The road networks in India span an extensive 59, 03,293 km, making them a crucial aspect of the country's infrastructure. To improve road construction methods, a project has been proposed to replace the conventional base course of Water Bound Macadam (WBM) roads with rubber and steel stacked mats. India generates over 1 million tonnes of rubber tire waste annually, with approximately 60% of it being recycled. Additionally, about 15 million tonnes of rubber tyre waste is produced in the country. The choice of rubber and steel for the mats is based on their desirable properties: rubber provides flexibility, while steel offers high strength to bear the load from the road surface.

The methodology involves creating the mats by combining rubber and steel back-to-back, with grooves at regular intervals for rolling. These prepared mats are then placed over the sub base course and rolled. To increase the soil's density and bearing capacity, holes are made in the mats, allowing soil particles to fill them when the mats are inserted into the ground. Fine courses are subsequently dumped and rolled over the mats. The mats used in this approach are easily transportable as they can be rolled up. Moreover, by employing this mat system, the compaction period for the base course can be eliminated. It is important to note that this proposed methodology is specifically intended for Water Bound Macadam roads. By adopting this approach, the overall time required for road construction is reduced, waste tires are effectively recycled, and the overall project cost is minimized. The end result is an efficient road that can be constructed within a shorter timeframe.

Keywords— Soil Stabilization, Highly volcanized rubber sheet, Construction technique.

INTRODUCTION

Soil modification plays a significant role in achieving the desired soil properties for construction purposes. Soil modification involves altering or improving the properties of the soil to make it more suitable for construction work. Various techniques and methods are employed to modify soil, depending

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

"Use of plastic in bitumen for construction of road"

Prof.mrs.arati chougule[1],dr. Jagdish lambe[2] and mr. Afsar khatik[3]

[1] assistant professor department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur,

Arati.chougule @jjmcoe.ac.in

[2] associate professor & head of department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur, jagdish.lambe@jjmcoe.ac.in

3 final yearb.tech. Student, department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur,

khatikafsar@gmail.com

Abstract: The use of plastic in bitumen will allow for the utilization of waste plastic materials it increase the quality of road in this cases plastic bitumen can reduce the overall cost of the project since plastic bitumen can increase the life of road & reduce the long term maintenance requirement it should provide long term cost saving to the agency when the proper use of plastic bitumen in construction of road. In this project we have to increase the concentration of plastic & to decrease concentration of bitumen by taking different concentration ratio of plastic & bitumen. We have to design the module of plastic bitumen blend which have all the standard properties of the regular bitumen by taking different test like flash fire point, penetration etc, on plastic bitumen blend.

Keywords: - plastic, bitumen, plastic bitumen blend

I. INTRODUCTION

Plastic is everywhere in world. In every industry the plastic are used as a main component like packing material in building construction, in making toys etc. Also in automobile industry the plastic materials are widely used in all over the world. Now a days the plastic is widely used in a plastic bottles, used for mineral water packing, cold rinks storage, detergent storage etc. After use of that bottles for one time purpose the are thrown here and there. And that creates pollution. By using these plastic bottles in bitumen we can increase the strength of the road. If the plastic is added in proper proportion in to the bitumen the life span of road would be increase. It can save money and also protects the environment. In various countries the plastic is used in a road construction.The proper use of these materials can help for build a economical road. The maximum proportion of plastic in plastic bitumen blend can help strong and durable road.

II. OBJECTIVES

1. To reduce the quantity of bituminous and to increase the quantity of plastic in construction of flexible pavement.

2.To increase the life span of road.

3.To reduce the overall cost of road.

4. To test the bitumen and modified bind.

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"

Prof.Mrs.Arati Chougule[1], Dr. Jagdish Lambe[2] and Mr. Prathmesh Patil[3]

[1] Assistant Professor Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur. jagdish.lambe@jjmcoe.ac.in

[2] Associate Professor & Head of Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, arati.chougule@jjmcoe.ac.in

3 Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, prathmeshpatil@gmail.com

Abstract--A large number of plastic wastes have been collected from several places such as tourist and public places etc.. High density polyethylene bags are collected, cleaned, and used as a replacement for cement in the manufacturing of Paver Blocks. Plastic waste is available in large quantity and hence the cost factor comes down. when we having waste plastic then we can use as reuse, recycle and reduce. Be mindful of what you do, pay attention to the items you buy, and always check yourself to see if you need it or if it comes in a package with less waste

Keywords---Paver block, Plastic waste, Ceramic Waste, Compressive Strength

INTRODUCTION

Plastic is evil. You can hardly do away with it. Every day we use plastic in daily lifestyle that is Garbage, coffee cup, electronic material, plastic bags Etc. so plastic is very harmful to humans, animals, marine and as well as to environment. But where is all the plastic going? It would be startling to note that billions of tons of plastic are ending up in the world's oceans. Pollution caused by plastic is not only harmful to marine life but is also affecting the health of humans. The harmful chemicals like PCBs, DDT, and PAH, which get absorbed in the plastic debris that floats in the seawater, have a varied and harmful range of chronic effects like endocrine disorders. The toxins are transferred in the food chain as they get absorbed in the animals' bodies after they eat the plastic pieces. Human beings consume these contaminated fish and mammals. Plastic pollution is affecting the global economy. It is destroying the fishing and aquaculture industries. Plastic is mostly produced by household, tourism and trekking etc. In many countries, the composition of Waste is different, that it is affected by the socioeconomic characters, waste management programs, and consumption patterns, but generally, the level of plastic in the waste composition is high. One of the largest components of plastic waste is polyethylene which is followed by polypropylene.

Definition of Plastic-Looking to the global issue of environmental pollution by post-consumer plastic waste, research efforts have been focused on consuming this waste on a massive scale in an efficient and environmentally friendly manner. Plastic contains in solid as well as in finished state.

GENERATION - India generates 5.6 million metric tons of plastic waste annually, with Delhi generating the most of at municipality at 689.5 metric tons every day, according to a report from the Central Pollution Control Board (CPCB). CPCB submitted the report to the Indian Supreme Court, which said, "We are sitting on a plastic time bomb."

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

GIS SCIENCE JOURNAL

An UGC-CARE Approved Group II Journal

ISSN NO : 1869-9391 / Website : www.gisscience.net /
Email : editorgsjournal@gmail.com

Certificate of Publication

Paper ID : GSJ/11111

This is to certify that the paper titled

REVIEW ON THE IMPACT OF USING EGGSHELL POWDER IN CONCRETE TO ACCELERATE THE HYDRATION PROCESS OF CEMENT PASTE

Authored by

Dr. Jagdish Lambe

From

Dr.J.J.Magdum College of Engineering, Jaysingpur.

Has been published in

GIS SCIENCE JOURNAL Volume 10, Issue 6, June 2023.

UGC APPROVED JOURNAL

DOI: 20.18001.GSJ

crossref member

M Palaniswami
Editor-in-chief
GISSCIENCE

6.1 IMPACT FACTOR

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Cracks In Construction Causes Prevention And Repair

PROF A. S. SAJANE[1], PATOLE KOMAL SUBHASH[2], BIRAJDAR SANGEETA SURESH[3], SANKPAL NISHANT PRAFULLA[4]

[1,2] Research Scholar, Dept. of Civil Engineering, Dr.J. J. Magdum college of Engineering Jaysingpur- 416 101

[2]Professor & Head, Department of Civil Engineering & Vice-Principal

Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 101

Email: komalpatole36@gmail.com/nishantsankpal10@gmail.com[2]

ABSTRACT

In this paper, we have discussed about the problem of crack development in construction and what preventive measures should be taken along with the techniques to repair the cracks. Cracks in construction pose a significant challenge in maintaining the structural integrity and durability of buildings and infrastructure. This abstract provides an overview of the causes, prevention measures, and repair techniques related to cracks in construction. Understanding the underlying factors that contribute to crack formation, implementing preventive strategies, and employing appropriate repair methods are essential for ensuring the long-term stability and safety of constructed assets. Cracking is a common problem in concrete structure in real life services. We all want to have a building which structurally safe and beautiful but it is not so easy because of natural calamity, soil failure, construction faults and improper design causing to develop cracks on the building. So, it is important to understand the types of cracks and their causes and the preventive measures to be taken to control the cracks.

Key words: Cracks, Causes of cracking, Preventive measures, Techniques etc.

INTRODUCTION

Cracks in a building is a universal problem in the world. Cracks in construction are a common occurrence and can be found in various structures, ranging from buildings and bridges to roads and dams. They are a result of stress, movement, or settling within the construction materials, leading to the formation of visible openings or fractures on the surface. While some cracks may be minor and harmless, others can indicate significant structural issues that require immediate attention and repair. Understanding the causes, types, and implications of cracks in construction is crucial for engineers, architects, contractors, and anyone involved in the building industry. By recognizing and addressing cracks early on, potential safety hazards and costly repairs can be minimized. The first and most common reason of cracks development is the stress such as dead load, live load, wind load and foundation settlement. Cracks affects the safety of structure and reduces the durability of structure. Cracks are generally divided into two parts. There are structural cracks and Non-stuctural cracks.

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

PROJECT MANAGEMENT IN CONSTRUCTION BY USINGPRIMAVERA P6 SOFTWARE

JADHAV PRANJALI PRAKASH[1] , JAGTAP KARUNA PRAKASH[2] , JOYASHI SAYALI SANTOSH[3] , A.S.SAJANE[4]

[1, 2] Research Scholar, Dept of Civil Engineering, Dr.J. J. Magdum college of EngineeringJaysingpur, Jaysingpur –416 101

Assistant Professor , Department of Civil Engineering

Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 101

Email: jadhavpranjali601@gmail.com

ABSTRACT

The construction industry is an integral and developing part of nation's infrastructure and industrial growth. In that construction sector construction manager has to deal with lots of challenges regarding time management and its limitations. Primavera P6 is one of the software which is used for the managementof construction activities. In this project, we carried out planning, scheduling, controlling, resource allocation and time management by primavera p6 software for mivan construction.

Primavera software has been use because of it use for large projects and fives comparable and optimum project plans to stimulate the adjustments. The wide acceptance of this software, especially in industries of developing cities has made the project managers to easily handle the large projects effectively. Effective time planning, is very important in determining the success of any project, poor planning and controlling of project will causes delay. To overcome this time running problem analysis can be done by using the primavera p6 software. This software gives better quality of construction management process and easily understanding results.

Key words: Mivan, primavera p6, software, planning4,resource allocation, etc.

INTRODUCTION

Large construction project with huge budget it becomes very difficult for the project team to handle the task so it becomes very necessary to provide tool in handof project tool team that keep a track a activities. It helps in planning, schedulingand controlling effectively. In todays world great importance is givento a speedy construction practices, so mivan technology is one of them. Primavera p6 software is used to track and trace the activities of a G+7 mivan construction building.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"

Prof.Mrs.Arati Chougule[1], Dr. Jagdish Lambe[2] and Mr. Prathmesh Patil[3]

[1] Assistant Professor Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, jagdish.lambe@jjmcoe.ac.in

[2] Associate Professor & Head of Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, arati.chougule@jjmcoe.ac.in

3 Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, prathmeshpatil@gmail.com

Abstract--A large number of plastic wastes have been collected from several places such as tourist and public places etc., High density polyethylene bags are collected, cleaned, and used as a replacement for cement in the manufacturing of Paver Blocks. Plastic waste is available in large quantity and hence the cost factor comes down. when we having waste plastic then we can use as reuse, recycle and reduce. Be mindful of what you do, pay attention to the items you buy, and always check yourself to see if you need it or if it comes in a package with less waste

Keywords—Paver block, Plastic waste, Ceramic Waste, Compressive Strength

INTRODUCTION

Plastic is evil. You can hardly do away with it. Every day we use plastic in daily lifestyle that is Garbage, coffee cup, electronic material, plastic bags Etc. so plastic is very harmful to humans, animals, marine and as well as to environment. But where is all the plastic going? It would be startling to note that billions of tons of plastic are ending up in the world's oceans. Pollution caused by plastic is not only harmful to marine life but is also affecting the health of humans. The harmful chemicals like PCBs, DDT, and PAH, which get absorbed in the plastic debris that floats in the seawater, have a varied and harmful range of chronic effects like endocrine disorders. The toxins are transferred in the food chain as they get absorbed in the animals' bodies after they eat the plastic pieces. Human beings consume these contaminated fish and mammals. Plastic pollution is affecting the global economy. It is destroying the fishing and aquaculture industries. Plastic is mostly produced by household, tourism and trekking etc. In many countries, the composition of Waste is different, that it is affected by the socioeconomic characters, waste management programs, and consumption patterns, but generally, the level of plastic in the waste composition is high. One of the largest components of plastic waste is polyethylene which is followed by polypropylene.

Definition of Plastic-Looking to the global issue of environmental pollution by post-consumer plastic waste, research efforts have been focused on consuming this waste on a massive scale in an efficient and environmentally friendly manner. Plastic contains in solid as well as in finished state.

GENERATION - India generates 5.6 million metric tons of plastic waste annually, with Delhi generating the most of at municipality at 689.5 metric tons every day, according to a report from the Central Pollution Control Board (CPCB). CPCB submitted the report to the Indian Supreme Court, which said, "We are sitting on a plastic time bomb."

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

"Use of plastic in bitumen for construction of road"

Prof.mrs.arati chougule[1],dr. Jagdish lambe[2] and mr. Afsar khatik[3]

[1] assistant professor department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur,

Arati.chougule @jjmcoe.ac.in

[2] associate professor & head of department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur, jagdish.lambe@jjmcoe.ac.in

3 final yearb.tech. Student, department of civil engineering, dr.j.j.magdum college of engineering, jaysingpur,

khatikafsar@gmail.com

Abstract: The use of plastic in bitumen will allow for the utilization of waste plastic materials it increase the quality of road in this cases plastic bitumen can reduce the overall cost of the project since plastic bitumen can increase the life of road & reduce the long term maintenance requirement it should provide long term cost saving to the agency when the proper use of plastic bitumen in construction of road. In this project we have to increase the concentration of plastic & to decrease concentration of bitumen by taking different concentration ratio of plastic & bitumen. We have to design the module of plastic bitumen blend which have all the standard properties of the regular bitumen by taking different test like flash fire point, penetration etc, on plastic bitumen blend.

Keywords: - plastic, bitumen, plastic bitumen blend

I. INTRODUCTION

Plastic is everywhere in world. In every industry the plastic are used as a main component like packing material in building construction, in making toys etc. Also in automobile industry the plastic materials are widely used in all over the world. Now a days the plastic is widely used in a plastic bottles, used for mineral water packing, cold rinks storage, detergent storage etc. After use of that bottles for one time purpose the are thrown here and there. And that creates pollution. By using these plastic bottles in bitumen we can increase the strength of the road. If the plastic is added in proper proportion in to the bitumen the life span of road would be increase. It can save money and also protects the environment. In various countries the plastic is used in a road construction. The proper use of these materials can help for build a economical road. The maximum proportion of plastic in plastic bitumen blend can help strong and durable road.

II. OBJECTIVES

1. To reduce the quantity of bituminous and to increase the quantity of plastic in construction of flexible pavement.

2.To increase the life span of road.

3.To reduce the overall cost of road.

4. To test the bitumen and modified bind.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Design Of Slope Stabilization Scheme In Jotiba Hill Region

Shruti S Khot[1], Vinayak KrishnaLokare[2], PradnyeshDipakDharpawar[3] Abdul HannanIrfan Patel[4]

[1]Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, shruti.khot@jjmcoe.ac.in

[2] Final YearB.Tech.student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,

Vinayaklokare2001@gmail.com

3 Final YearB.Tech.student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,pradnyeshd2001@gmail.com

3 Final YearB.Tech.student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,Mrhannanpatel@gmail.com

Abstract—This report focuses on prevention of landslide by slope stabilization. Landslides are a serious geological hazard caused when masses of rock, earth and debris flow down a steep slope during period intense rainfall. The western Ghat of India is subjected to many landslides every year. The material may move by falling, toppling, sliding, spreading, or flowing. Some landslides are rapid; occurring in seconds, whereas some may take hours. This report aims to stabilize the slope in Jotiba hill region. We conducted various field tests and some lab tests on the sample collected from the site. From the results obtained we analyzed the data by using slide software to find stability of the slope. From the software analysis it is found that Reprofiling and Reprofiling plus soil nailing these two solutions for slope stabilization. The main purpose of this exercise is to achieve safety as well as economy at a same time for better prevention of landslides.

Keywords—Landslide, Slide software, Reprofiling, Soil Nailing.

INTRODUCTION

The study is about to provide various slope stabilization schemes for landslide prevention. Landslides causes the severe loss of life and economy. In recent years Maharashtra has witnessed various landslides like Malin village in Pune district, Taliye village in Raigadh district and many others. These landslides caused loss of lives of hundreds of people. These landslides mostly occurred in rainy season because of additional water pressure. Hence rainy season becomes scary for various villages. To prevent these types of disasters we need a proper solution which should be economical as well. Government provides various preventive measures to these villages. Some villages get rehabilitated. Slope stabilization is done on tendering basis. Various consultancies provide a slope stabilization schemes for these types of sites. Slope stabilization of landslide prone area can result in saving the lives of people. This motivated us to develop a slope stabilization design for a landslide prone area.

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

5.3 Relief Aspects Of The Basin

Relative Relief (Rhp)

The elevation difference between a morphological feature and those around it, such as the height difference between a peak and nearby peaks or between a depression and nearby depressions, is known as terrain relative relief (also known as elevation). (WetLand 2020 Info). The height difference between the highest and lowest points (the largest difference in height between two places) in a basin or area is known as the "amplitude of relief" or "local relief" within that basin or area. This study computes watershed values using SRTM data.

Dissection Index

The dissection index, which always ranges between zero (no dissection) and one (vertical cliff at sea shore), is defined as the ratio between a basin's relative relief and absolute relief. Landscape dissection is one of the variables that affects drainage density (Montgomery and Dietrich, 1994). The dissection index value rises during the landform development cycle as a result of differential cutting of the once-smooth land surface. (Dayama, 2022) This suggests that more dissection takes place as a result of the imperfections, leading to a plain surface.

Relief Ratio (Rhl)

Total relief of the river basin is the distance from a watershed's highest point to its lowest point. According to (Schumm, 1956)the relief ratio is the ratio of a basin's overall relief to its longest dimension perpendicular to its main drainage line. The value of this research area is 5.19.

Ruggedness Number (RN)

The sum of drainage density and basin relief produces roughness number. (Strahler's 1968). The length of the slope and its steepness are combined. These estimations give the Dudhganga watershed a Ruggedness number of 1.16. (Dayama, 2022) Low ruggedness watersheds have inherent structural complexity in respect to relief and drainage density and are less prone to soil erosion

Maximum Elevation

The basin's greatest height is defined as the watershed's highest point. In accordance with QGIS software, it is 951 meters. (Dayama, 2022)

Elevation at Outlet

The watershed's outlet or the lowest point o Elevations is where the basin mouth is located. (Dayama, 2022) It is calculated using the QGIS programmer, and the result is 449m

PARAMETERS	RESULTS	FORMULAE	REF.
Stream order	7	Hierarchical Rank	Strahler(1952)
Stream Number (N_u)	7157.00	$(N_u)N_u=N_1+N_2+\ldots N_n$	Horton(1945)
Stream Length (L_u) (Km)	5707.38	$L_u=L_1+L_2\ldots L_n$	-
Stream Length Ratio (L_{ur})	14.62	See Table 5.1	-
Mean Stream Length Ratio (L_{urm})	2.44	See Table 5.1	-
Bifurcation Ratio (R_b)	3.2-5.8	See Table 5.1	-
Mean Bifurcation Ratio (R_{bm})	4.45	See Table 5.1	-

J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

"Biodegradable Material Management in Dr. J.J. Magdum College Of Engineering Campus"

D. A. Latthe , Mr. Dhruv Waghmare[2]and Mr. Deekhant Kamble[3]

[1]Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,dhanashree.latthe@jjmcoe.ac.in

[2] Final YearB.Tech.student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, dhruvvipulwaghmare18@gmail.com

3 Final YearB.Tech.student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, deekshant09@gmail.com

Abstract— Generation of Solid wastes in general and biodegradable waste in particular is increasing at house hold level over the last two decades. Any material which can be decomposable by the action of microorganisms in a short period of time is called biodegradable. Mostly food waste; vegetable peels and fruit pulp are biodegradable. These materials readily mix with the soil by the action of bacteria. During decomposition, these materials release carbon dioxide, methane, ammonia and hydrogen sulphide into the environment thereby contributes to air pollution. Biodegradable kitchen waste that is collected from residential societies which can be utilized for the benefits of the society.

Biodegradable waste is the waste that can be decomposed and will be broken down into carbon dioxide, water, methane or simple organic molecules by the action of micro-organisms in reasonably less time. Normally biodegradable wastes are food and kitchen waste, manure, agricultural and forestry waste.

Keywords—Biodegradable waste, soild waste

I. INTRODUCTION

Due to scarcity of petroleum and coal it threatens supply of fuel throughout the world also problem of their combustion leads to research in different corners to get access the new sources of energy, like renewable energy resources. Solar energy, wind energy, different thermal and hydro sources of energy, biogas are all renewable energy resources. But biogas is distinct from other renewable energies because of its characteristics of using, controlling and collecting organic wastes and at the same time producing fertilizer and water for use in agricultural irrigation. Biogas does not have any geographical limitations, nor does it require advanced technology for producing energy, also it is very simple to use and apply.

Deforestation is a very big problem in developing countries like India, most of the part depends on charcoal and fuelwood for fuel supply which requires cutting of forest. Also, due to deforestation It leads to decrease the fertility of land by soil erosion. Use of dung, firewood as energy is also harmful for the health of the masses due to the smoke arising from them causing air pollution. We need an eco-friendly substitute for energy.

Kitchen waste is organic material having the high calorific value and nutritive value to microbes that's why efficiency of methane production can be increased by several order of magnitude as said earlier. It means higher efficiency and size of reactor and cost of biogas production is reduced. Also in most of cities and places, kitchen waste is disposed in landfill or discarded which causes the public

GIS SCIENCE JOURNAL

An UGC-CARE Approved Group II Journal

ISSN NO : 1869-9391 / Website : www.gisscience.net /
Email : editorgsjournal@gmail.com

Certificate of Publication

Paper ID : GSJ/11118

This is to certify that the paper titled

Study on the impact of textile industry effluents of Ichalkaranji city on the water quality (Water quality of Panchganga River at Ichalkaranji)

Authored by

Sneha P Madnaik

From

Dr J J Magdum College of Engineering Jaysingpur , 416101 Maharashtra (India).

Has been published in

GIS SCIENCE JOURNAL Volume 10, Issue 6, June 2023.

UGC APPROVED JOURNAL

DOI: 20.18001.GSJ

crossref member

M Palaniswami
Editor-in-chief
GISSCIENCE

6.1 IMPACT FACTOR

ICSSMT

Springer

CARE COLLEGE OF ENGINEERING

Certificate of Presentation

This is to certify that

Sneha P Madnaik

have successfully presented the paper entitled

Application of Microsurfacing Technique for Optimizing Maintenance Cost of Rigid Pavements in India

at 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023)
organized by CARE College of Engineering, Tiruchirappalli (Trichy), Tamil Nadu, India
30-31, August 2023

Dr. J. J. Magdum College of Engineering Jaysingpur

Session Chair

Organizing Secretary
Dr. A. Pasumpon Pandian

Principal
Dr. S. Shanthi

ICSSMT

Springer

CARE COLLEGE OF ENGINEERING

Certificate of Presentation

This is to certify that

Virgonda A Patil

have successfully presented the paper entitled

Application of Microsurfacing Technique for Optimizing Maintenance Cost of Rigid Pavements in India

at 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023) organized by CARE College of Engineering, Tiruchirappalli (Trichy), Tamil Nadu, India 30-31, August 2023

Dr J J Magdum College of Engineering Jaysingpur 416 101

Session Chair

Organizing Secretary
Dr. A. Pasumpon Pandian

Principal
Dr. S. Shanthi

GIS SCIENCE JOURNAL

An UGC-CARE Approved Group II Journal

ISSN NO : 1869-9391 / Website : www.gisscience.net /
Email : editorgsjournal@gmail.com

Certificate of Publication

Paper ID : GSJ/11111

This is to certify that the paper titled

REVIEW ON THE IMPACT OF USING EGGSHELL POWDER IN CONCRETE TO ACCELERATE THE HYDRATION PROCESS OF CEMENT PASTE

Authored by

Virgonda A. Patil

From

Dr.J.J.Magdum College of Engineering, Jaysingpur.

Has been published in

GIS SCIENCE JOURNAL Volume 10, Issue 6, June 2023.

UGC APPROVED JOURNAL

DOI: 20.18001.GSJ

crossref member

M Palaniswami
Editor-in-chief
GISSCIENCE

6.1 IMPACT FACTOR

https://mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzGwHpZTGXGVlfwQwTHMSpHmwpDs?projector=1&messagePartId=0.10

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

DESIGN AN IOT BASED NOISE DETECTION AND ALERT SYSTEM

Prof. R.A. Bharatiya[1], Chidanand Eknath Shirdhone [2], Rushikesh Prakash Pujari [3]

[1] Head Of Department, Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

[2,3] Students, Department, Of Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

ABSTRACT

Noise pollution also impact the health and well-being of wildlife. To control the noise pollution various systems models are present. Hence to overcome all problems and help our society we propose a IOT based system noise detection system using raspberry Pi and with high end noise detection sensor. This model is used in school area as well as any other places where noise is required in less amount. After one lecture second lecture is starting. In this gap teacher may came late between these students make noise. It will affect on nearby classes or office. That's why for controlling this noise we develop IoT based noise detection system is proposal which will help to control the noise. With the help of this model teacher or authority will take a preventive action. This model is helpful in various noise pollution area like in city, hospital, school, silent zone areas.

KEYWORDS-Noise monitoring: Smart Classroom; Noise Awareness: IoT,Raspberry

INTRODUCTION -

In school days or when we taking education in polytechnic we see that, after completing current lecture next lecturer has to come for take his lecture. But teacher may be busy in other work so they will be come late on lecture. Between that time spam noise is created by students. Then we decided to find out the solution for control the noise creates in a classroom. In this project we can intimate noise of students from the classroom automatically to class coordinator. For that, voice sensor will be used in this project and it will be controlled by the Raspberry Pi. Voice will be recognized by an IC (lm 324) which is connected to the Raspberry Pi. In this we must set the fixed/threshold value of noise decimal. When the noise exceeds the limit of fixed/threshold value of decimal, then message will be sent to the class coordinator of that classroom and HOD of department. Through this project respective authority of particular class can take necessary action to reduce noise while class is making noise because of staff is not available to engage that class. Using this project we can control the noisy situation of classroom. For this we can intimate to class coordinator and HOD through text message on mobile phone or through email.

LITERTURE SURVEY

Dr. G. Sekar, A. Shankar & P. M. Benson Mansingh – "IOT based Noise Detector with Automatic Recording System".

Talking loudly is an infuriating habit in an office environment as well as in industry the machine noise is quiet annoying. The office environment with loud co-workers can distract the work and reduce the work efficiency. The machine noise in an industry environment above 85dBA affects the hearing capacity. To help and solve this issue, a noise detector with instinctive recording device is proposed. This device informs the user about the noise level and whenever the noise level exceeds

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

MEDICAL MANAGEMENT SYSTEM

Prof. R.A. Bharatiya[1], Yogeshri Babar[2], Kedar Kenjale[3], Nayan Khade[4]

[1]Head Of Department, Of Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

[2,3,4]Students, Department, Of Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

ABSTRACT

The medical management system is built in order to replace manual-based system to computerize. Here the system is expected to be efficient, useful, and affordable in implementing tasks that are instructed by the pharmacy manager. Software doesall things in pharmacy like sales, inserting new incoming goods, making bills, calculating taxes, and debt, also computes employee salaries, gives information about products, makes different statistics as best month to sell some product via provided charts, and also manages employee work. The purpose of the Medical Management System is to automate the existing manual system.

1.INTRODUCTION

This system also enables the workforce of the medical store to offer their services in a manner which is more efficient and systematic which also improves the medical store. This also helps in analyzing the performance of the store. The medical store management software can organize the daily activities in the medical store such as information about tablets, billing, details of stock and others. The medical store management software enables to maintain the details of purchase stock by the store and the details of the selling stock by customer.

This software generates the automated bill for every sale and also generates the reports for the customer detail, sell and stock. The use of this system reduces the time and effort involved in managing inventory of the medical store. It also reduces the hard work involved in using paper for record keeping. The use of this system enables the managers to easily record the details of their suppliers and assess them whenever required.

KEYWORDS- Python, Django, Medical Management, Web Application, Pharmacy Store, Billing Module

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

2.LITERATURE SURVEY

The paper [1] says A major amount of time is taken for writing the order as the pharmacist needs to check through the stock balance and make an estimate of the amount to order based on Figures. As we

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Waste Food Management system

Prof. R.A. Bharatiya[1], Rohit Maruti More[2], Shubham Dinesh Kale[3], Saniya Pandurang Mhamulkar[4]

[1] Head Of Department, Of Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

[2,3,4] Students, Department, Of Information Technology, Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra, India.

ABSTRACT

This app contains various module such as individual (personal donator), login page, Admin, restaurant and NGO's. This android-based Food Waste Management system can assist in collecting the leftover food from hotels & restaurants to distribute among those in need. NGOs that are helping poor communities to battle against starvation & malnutrition can raise a request for food supply from restaurants through this application. Once the request is accepted, the NGOs can collect the food from the restaurants for its distribution.

Food is one of the basic necessities of humans, and it stands first among all basic needs- food, shelter and clothing. It is important as it nourishes the human body sustaining the very existence of humans. However, with the rising population and development of this country, food wastage has risen to a new high. There are many people who wish to food to the needy but are unaware of how exactly they can execute that. Our application revolves around helping the needy by connecting NGO'S and common people.

The NGO will get the details of the restaurants or orphanages wishing to donate via our application and thus a network is established between donors, people who aim the donors in donating (NGO'S) and the actual needy people to whom the donated items is sent. Our application aims that to bring about transparency, clarity and swiftness in the process of donation thus aiming to mitigate prevailing issues in whatever zone it is possible for us to do so.

ISO 9001 : 2015

Dr. J. J. Magdum College of Engineering Jaysingpur

INTRODUCTION

The main purpose of our application is to reduce food wastage with the help of donation. Because of this application needy people will also get a source to overcome there hunger and the remaining food in the restaurants and orphanages will not been wasted now. A drastic increase can be seen in food waste. As per data given by Food and Agricultural Organization 1/3 rd of food produce for human consumption is

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Distracted Driver Detection Using Machine Learning Approach

Pallavi R Desai[1] , Amrut Kanade[2], Ashwagandha Shelake[3], Shravan Jadhav[4], Sandesh Mane[5]

Assistant Professor, Dept. Of Information Technology, Dr.Dr.J.J.M.C.O.E,
pallavi.r.desai@gmail.com

Dr.J.J.M.C.O.E, India, [2]amrutkanade2001@gmail.com, [3]gpkp176054@gmail.com,
[4]jshravan52@gmail.com, [5]sandymaneg1137@gmail.com

Abstract— Distracted driver detection is a technology-driven approach aimed at identifying and addressing behaviors that divert drivers' attention from the road. With the rise of mobile devices and other distractions, this has become a critical concern for road safety. This paper explores the methods and techniques employed in detecting distracted driving behaviors, such as texting, phone use, eating, and device manipulation, while operating a vehicle. The integration of computer vision algorithms, machine learning, and sensor-based systems enables real-time monitoring and analysis of visual cues, head movements, eye gaze patterns, hand positions, and vehicle dynamics. By accurately recognizing distracted driving behaviors, these systems can provide interventions such as alerts, notifications to authorities, and feedback for drivers and insurance companies. Furthermore, the collected data can be leveraged to inform policy-making, improve regulations, and raise awareness about the dangers of distracted driving. While striving for enhanced road safety, it is crucial to address privacy concerns and ethical considerations associated with monitoring drivers' behavior. Through the implementation of distracted driver detection technology, we can make significant strides in reducing accidents, injuries, and fatalities caused by driver inattention on the road.

Keywords— Distracted driving, Driver inattention, Visual cues, Head movements, Real-time monitoring, Traffic safety

Introduction

Distracted driver detection refers to the use of technology to identify and monitor drivers who are engaging in activities that divert their attention from the task of driving. This includes behaviors such as texting, talking on the phone, eating, or using electronic devices while operating a vehicle. The goal of distracted driver detection is to improve road safety by alerting drivers, enforcing regulations, and collecting data for analysis and policy-making. Various methods are employed, such as computer vision algorithms, machine learning techniques, and sensor-based systems, to detect and classify distracted driving behaviours in real-time.

By detecting and addressing distracted driving, this technology aims to reduce the number of accidents, injuries, and fatalities caused by this dangerous behavior on the road. It serves as a proactive measure to promote responsible driving and enhance overall transportation safety.

Distracted driving has become a significant concern due to the increasing prevalence of mobile devices and other distractions in today's society. According to the National Highway Traffic Safety Administration (NHTSA), distracted driving claimed 2,841 lives in the United States alone in 2019.

To address this issue, researchers and technology developers have focused on creating systems that can accurately detect and classify distracted driving behaviors. Computer vision algorithms, combined with cameras installed in vehicles or roadside infrastructure, can analyze visual cues such as head movements, eye gaze patterns, and hand positions to determine if a driver is distracted. Machine learning techniques play a crucial role in training these algorithms to recognize specific distracted driving behaviour. Large datasets of labeled images or videos are used to teach the

Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

FAKE NEWS PREDICTION USING MACHINE LEARNING

Pallavi R Desai[1] , Omkar S Bhosale[2], Prajwal K Sarnobat[3], Rajat R Shahapure[4], Pratik S Revanna[5]

[1]Assistant Professor, Dept. Of Information Technology, Dr.Dr.J.J.M.C.O.E, pallavi.r.desai@gmail.com

Dr.J.J.M.C.O.E, India, [2]prajwal.sarnobat@gmail.com, [3]rajatshahapure57@gmail.com, [4]Ombhosale05@gmail.com, [5]Pratikrevanna34@gmail.com

Abstract -- Fake news is pervasive on social media and in other forms of media, and it is a serious worry since it has the potential to devastate society and the country. On finding it, a lot of research has already been done. This analyses the research on fake news detection and investigates the best traditional machine learning models in order to build a model of a product with supervised machine learning algorithm that can categories fake news as genuine or false. Features will be extracted as a result of this approach. As this library includes practical methods like Count Vectorizer and Tiff Vectorizer, we suggest utilizing Python to carry out tokenization and feature extraction of text data.

Keywords— Python, tokenization, machine learning

I. INTRODUCTION

The majority of information that is considered to be fake news comes from reports that arefabricated and spread on purpose with the intention of deceiving and hurting Internet users. Clickbait, which entices visitors to click links with appealing headlines or designs in order to enhance ad income, readership, or profit, is a prevalent practise for social media and news websites. As a result, some rumours or fake information are created and disseminated online, leading to other internet users believing and spreading these rumours or incorrect information. When people get falseinformation, it may cause them to hold false beliefs and take false actions. It takes a lot of effort to spot fake news when it initially surfaces for negative motives, whether they be political, economic,or social.

Most of the information that could be fake news comes from stories deliberately produced and disseminated to mislead and harm internet users. Social media and news sites often use clickbait to entice users to click on links with catchy titles or designs in order to increase ad revenue, readership,or profits. As a result, some misinformation or rumors are generated and spread on the internet, causing other internet users to believe and spread the lies themselves. When people receive incorrectinformation, it can lead to erroneous beliefs and behaviors. Detecting where fake news first appears requires a lot of attention for the wrong reasons, whether political, economic or social. Machine learning and other techniques were widely used to identify 4,444 fake news items. In the context of "fake news", any information produced with the intention of to contradict the facts is considered false and therefore reported as false. Fake news on the Internet has two main characteristics: first, it is not true; second, they are not credible. Fake news in mainstream media refers to publications such as newspapers, radio and television. Be careful when trying to determine the legitimacy of despite receiving news from different

Jaysingpur

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Gesture Recognition-Based Virtual and Mouse

Ms.Jayshree.T.Patil[1], Shreya A. Jamdade[2], Rutuja P. Manglekar[3], Samruddhi S. Mohite[4], Aishwarya P. Nibalkar5

[1]**Assistant Professor, Dept.of InformationTechnology , Dr.JJMCOE Jaysingpur,MS,India. jtpatil1010@gmail.com**

[2,3,4,5] **Student, Dept.of InformationTechnology , Dr.JJMCOE Jaysingpur,MS,India.**
[2]**shreyajamdade125@gmail.com** [3]rutujamanglekar@gmail.com,
[4]**mohitesumruddhi44@gmail.com,** [5]aishwaryanimbalkar16015@gmail.com

Abstract-Recognition-based virtual mouse and keyboard systems use gesture recognition technology to control mouse movements and keyboard inputs without physical devices. Instead of using a physical mouse or keyboard, users can perform hand or finger gestures in the air, which are captured and interpreted by a camera or sensor system. Gesture abstracts in this context refer to the specific hand or finger movements that are recognized and associated with certain mouse or keyboard actions. These gestures are predefined and programmed into the recognition system, allowing users to perform specific movements to simulate the actions of a traditional mouse or keyboard.

Keywords- Gesture recognition, hands-free, Artificial Intelligence, Mouse Movement.

INTRODUCTION

Recognition-based virtual mouse and keyboard systems have revolutionized the way weinteract with computers and other digital devices. Instead of relying on physical input devices like a mouse or keyboard, these systems enable users to control cursor movements and input text using hand or finger gestures. By leveraging gesture recognition technology, these systems provide a more intuitive and immersive user experience. The concept behind recognition-based virtual mouse and keyboard is to replace the physicality of traditional input devices with virtual representations that respond to our natural hand movements. With the help of cameras or sensors, these systems track and interpret the gestures performed by users, translating them into corresponding actions on the screen. Gesture recognition is the key component of thesesystems, as it allows for the detection and interpretation of specific hand and finger movements. By defining gesture abstracts, which are predetermined movements associated with particular mouse or keyboard actions, users can control their devices without the need for physical contact. A gesture abstract for mouse movement may involve pointing with an index finger and moving it in the air, mimicking the motion of aphysical mouse. Similarly, a gesture abstract for keyboard inputs could include tapping fingers or making specific hand gestures to simulate pressing individual keys.

Recognition-based virtual mouse and keyboard systems find applications in various fields. They are particularly useful in scenarios where physical input devices are impractical, such as in virtual reality, augmented reality, or touch less environments. These systems offer increased flexibility and freedom of movement, enabling users to interact with digital content in a more natural and intuitive way. Recognition-based virtual mouse and keyboard systems have revolutionized the way we interact with digitaldevices. By leveraging gesture recognition technology, these systems provide an intuitive, hands-free, and contactless means of controlling cursors and inputting text.

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Stock Management System

Ms.Jayshree.T.Patil[1], Savita A. Bandgar [2], Muskan I. Pathan [3], Divyarani D. Patil[4], Manasi M. Rawal[5]

[1]Assistant Professor, Dept.of InformationTechnology , Dr.JJMCOE Jaysingpur,MS,India, jtpatil1010@gmail.com

[2,3,4,5] Student, Dept.of InformationTechnology , Dr.JJMCOE Jaysingpur,MS,India, [2]savitabandgar2000@gmail.com [3]muskanpathan@gmail.com, [4]divyaranipatil2001@gmail.com, [5]rawalmanasi2344@gmail.com

Abstract-To manage the organization's inventory system, this project aims to develop theStock Management System web application. By conducting the survey in severalbusinesses and malls, the word the term "stock management system" describesthe processes and techniques utilized by a business to manage its inventory whileimplementing technological solutions. This system can be used to maintain trackof inventory, update inventory depending on sales data, and produce daily or weekly sales and inventory reports. Software called an inventory managementsystem is useful for companies that run hardware stores where the owner maintains records of sales and purchases. Workplace mistakes, manual delays,and process speeding up. A store owner can use an inventory management system to keep track of sales and available stock, as well as to determine when and how much to reorder.

Keywords: Python, inventory management system, Products, Sell.

INTRODUCTION

A web-based system called Stock Management System is used to keep track of orders, sales, and deliveries. Stock management software's functions include maintaining an ideal stock level, tracking products as they are moved between locations, receiving new inventory, managing warehouse operations like picking, packing, and shipping, preventing product obsolescence and spoilage, and makingsure your products are always in stock

Stock management software's functions include maintaining an ideal stock level, tracking products as they are moved between locations, receiving new inventory, managing warehouse operations like picking, packing, and shipping, preventing product obsolescence and spoilage, and making sure your products are always in stock. Stock management software automates what was formerly a labor-intensive,manual process of counting each item one at a time and documenting it on paper. This technique can be digitized to increase accuracy while also saving time.

Today, it is increasingly popular to conduct business online in order to increase a company's target market. Given that the customer can save time andconsider it hassle-free, it becomes more efficient. The sales system and inventory system combine to form a web-based system, which is the most often used system by several businesses.

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Mobile Application of Pet Adoption System

Akanksha Magdum, Aniket Magdum, Gayatri Chavan

Shreya Jadhav, Prof.P.A.Tamgave

Department of Information Technology, Dr.J.J.Madgum College of Enggineering,

Jaysingpur, Maharashtra 416101.

Affilated to Shivaji University,Kolhapur 2022-2023.

Email: 20090@jjmcoe.ac.in /20091@jjmcoe.ac.in

ABSTRACT

During the pandemic, adoption of stray animals from the animal shelters has increased. Even though many people still opt for buying pets from the pet shops, through this applicationwe encourage them to adopt instead of shop. In IndiaMostly is done by buying dogs/cats and many other animals from pet shops or buying from the people whose pets have had babies.Today most adoption processes are time consuming and exhausting. The main purpose of the project is to develop a platform to make those processes easier and give a new life to the strays. We chose this application to be a mobile app because since the pandemic, everyone has come to know the importanceof smartphones and its usage has increased many more times than before. Thus it makes it easy for the user and animal rescueshelter to commute with each other fast and efficiently. The project is developed using flutter technology. It involves flutter for front-end work and firebase for back-end work. The purpose of this app is to facilitate the adoption of stray animals.The application provides a user-friendly interface to help automate the process of serving pets' welfare. To develop the app, we are using flutter for the application and firebase as the database because Flutter is Google's free, open-source softwaredevelopment kit (SDK)for cross-platform mobile application development. It develops high-performance, scalable applications with attractive and functional user interfaces.

Key words: flutter,pet application,adoption,firebase

INTRODUCTION

During the pandemic, adoption of stray animals from the animal shelters has increased. Even though many people still opt for buying pets from the pet shops, through this application we encourage them to adopt instead of shop. In India Mostly is done by buying dogs/cats and many other animals from pet shops or buying from the people whose pets have had babies. Today most adoption processes are time consuming and exhausting. The main goal of the project is develop a platform to make those processes easier and give a new life to the strays. We chose this application to be a mobile app because since the pandemic, everyone has come to know the importance of smartphones and its usage has increased many more times than before. Thus it makes it easy for the user and animal rescue shelter to commute with each other fast and efficiently. The project is developed using flutter technology. It involves flutter for front-end work and firebase for back-end work. The purpose of this app isto facilitate the adoption of stray animals. The application provides a user-friendly interface to help automate the process of serving

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Design a Software System For Vaishnavi Jewelleres

G. Chendke[1] , Ashlesha M Pawar[2], Dipali G Potdar[3], Gauri A. Rajput[4], Poonam P. Wagh[5]

[1]Assistant Professor, Dept. Of Information Technology,
Dr.Dr.J.J.M.C.O.E,aishwarya.chendke@jjmcoe.ac.in

Dr.J.J.M.C.O.E, India,
[2]ashpawarash1@gmail.com,[3]dipalipotdar844@gmail.com@gmail.com,[4]gaurirajput2001@gmail.com
,[5]waghpoonam799@gmail.com

Abstract -- In this era of shopping through internet, the websites, mobile applications plays vital role.There are many jewellery software which doesn't provide advance features like to try on jewellery we proposed the software system that helps people to built an application program to find and buy latest design of jewellery with the different categories like gold, silver, diamond etc. This application maintains the centralized database so that, if any changes made then it reflects immediately. It provides benefits to customer as well as seller as it works for unlimited customers unlike social media platforms.

The aim of this application is to reduce the manual effort needed to manage the whole system like selection, payment, delivery of the product; also this application provides an interface to users to view the details about events. The software is totally based on manager's requirements as it is sponsored project. The system also gives authority to manager to replace, add, edit and delete the current information. For this manager first login to backend website and then will make changes. This software helpful for buyer as well as for seller.

I.INTRODUCTION

Jewellery Management system shops sells various types of Jewellery items and it is very difficult to categorize these items on the basis of their manufacturing dates, type of gold used to manufacture it .

The basis of their manufacturing dates, types of gold used to manufacture it .

This software follows the steps and rules to meet user requirements on demand and on time. Apart from this it removes the difficulties faced by the admin to manage their shop and can be easily handled by the admin without any technical knowledge of the platform used and about the system. Through this jewellery Management system employees working under a particular shop.

Previous websites had only features to show particular item of jewellery product and the local shopkeepers only have the social media tool to show their products. So with the help of only social media advertisements, effective marketing is not possible.

So to overcome above problems this software helps customer to view product and also try on products. The reach of social media is limited, so with the help of website and android application it is possible to expand the network of particular jewellery shop.

METHODOLOGY

•To design Login and Registration form of frontend and backend.

In Our website to successfully design login and registration page, the backend for both of them.

So, we will implement backend for creating database.

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

Study and Design E-CommerceWebsite

Saiesh Patil, Shridhar Patil, Gourav Shintre, Swapnil SutarProf. Mrs. S. B. Holkar

Department of Information Technology,

Dr. J.J. Magdum College of Engineering, Jaysingpur

ABSTRACT

The business-to-consumer aspect of electronic commerce (e-commerce) is the most obvious commercial use of the World Wide Web. The main purpose of an e commerce site is to sell goods and services online. This project includes the development of an advanced dynamic website for online sales. The system is implemented using a back-end database, a .NET framework, and a web browser as a front-end client. Developing an e- commerce site requires learning and understanding many technologies. These include multi-tenant architectures, server-side and client-side scripting technologies such as programming languages, relational databases such as MS-SQL. In this project, the main objective was to demonstrate that better interaction with laptop and smartphone websites can increase online sales. It is a website that helps businesses to purchase various products over the Internet. This is useful because it makes it easier to buy and sell products online. E-commerce is an interactive e-commerce solution that provides users with the ability to buy and sell products. E-commerce isa leading online platform for trading new and used products in various fields.

Key words: business-to-consumer, e-commerce, server-side, relational database,dynamic.

INTRODUCTION

"Online E-commerce System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it isuser-friendly Online E-commerce System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources.

Every organization whether big or small, has challenges to overcome and managing the information of Item Category Men, Woman, Child, Delivery Address, Order Every Online E-commerce System has different Food needs,therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to always manage your workforce anytime. These

Doctorate Publications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

E-Commerce Website with PWA technology for Interiors & Electricals

Prof. S.B.Holkar [*1],Prajwal Gurav[*2], Prajakta Patil[*3] , Pravin Patil[*4], Gaurang Sanpkal[*5]

Assistant Professor, Dept. of C.S., Dr. J. J. Magdum College of Engineering, Jaysingpur, India

B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India

B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India

B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India

B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India

Email: prajwalgurav42@gmail.com

ABSTRACT

Website development means work for clients who are trying to get their services onto the web. Our client wish to see their business online and have a quick access to their products and services . Project involves full stack web development i.e. front end & back end of website. For front end development HTML, CSS, JavaScript is used and for back end PHP is used. To develop a e-commerce website where a customer is provided with a shopping cart application.

Keywords: E-Commerce website, Full stack development, HTML, CSS, JS & PHP

I. INTRODUCTION

Now a days, the process of shopping on the web is becoming common place . More and more businesses are implementing website providing services for commercial transaction over the web.

The objective of the project is to develop a general purpose e-commerce store where services like Interior designing , Electrical contractor , Event planner etc. & products like wallpaper and home décor items can be bought from the comfort of home through the internet.

An online store is a virtual store on internet where customer can window-shop the catalog and select products of their interest . The selected items is collected in a shipping cart . After the finalizing the product, the items in the shopping cart will be considered as order. After that customer will be asked to fill or select billing address , shipping address, shipping option and payment information such as credit card number . As soon as order is placed text message and e-mail notification is sent to the customer.

ISO 9001 : 2015

II. METHODOLOGY

Dr. J. J. Magdum College of Engineering Jaysingpur 416 101

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

SENTIMENT'S PREDICTION

.Prof. P.R.Patil *1,Shrinath Hukkeri*2, Rahul Desai*3 , Sanket Uparate*4, Abhishek Rasal*5

Assistant Professor, Dept. of I.T., Dr. J. J. Magdum College of Engineering, Jaysingpur, IndiaB.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India B.Tech Student, Dept. of IT, Dr. J. J. Magdum College of Engineering, Jaysingpur, India Email: Uparatesanket@gmail.com

ABSTRACT

In this paper, a audio sentiment analysis model is designed by recognizing the emotions using audio signal and also the live microphone audio signal as an input. The main objective is to design and implement this model is to determine the state of emotion of human being's voice. This study recognizes different emotions such as happy , sad .clam ,angry .surprise ,fear and neutral etc. In this design MPI classifier and sequential neural network (deep learning) models are used for prediction RAVDESS dataset is given as input which contains lexically matched statements. These statements undergoes for training and testing under the CNN and displays the emotion related to it. With the machine learning model best results are gained.

Keywords: Multi Layer Perceptron classifier (MLP), Convolutional Neural Network(CNN) .

INTRODUCTION

As emotions play a vital role in communication, the detection and analysis of the same is of vital importance in today's digital world of remote communication. A SER (speech emotion recognition) system as a collection of methodologies that process and classify speech signals to detect emotions embedded in them.A Speech emotion recognition system is widely used in various applications in day to day life. This SER technology has improved the areas in Human computer interfaces such as in gaming, el earning, voice search, etc. and also in monitoring and controlling of aircraft cockpits, call centers.RAVDESS is the dataset of 2432 audio files, with 12 male speakers and 12 Female speakers, the lexical features (vocabulary) of the utterances are kept constant by speaking only 2 statements of equal lengths in s different emotions by all speakers. This the input file is given to train and test the model which further displays the emotion related to the input provided.

ISO 9001 : 2015

LITERATURE REVIEW

1.Shyam Kansara – "Sentiment Analysis on User-generated Video, Audio and Text".

Social Media prevails in today's world for voicing an opinion. That makes it crucial for businesses, artists, content creators, and pretty much anyone else on the internet to analyse what people are saying about them and what they offer. It provides vital information on what they can change and improve upon.

Hence,Sentiment Analysis is going to be a significant aspect to help organizations and

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

DAIRY AUTOMATION

Prof. P.R. Patil
Asst. Professor, IT Department
Department of Information Technology
Dr. JJMCOE Jaysingpur, Maharashtra, India
pournima.patil@jjmcoe.ac.in

Chavan Pooja Tulshidas
Shivaji University, Kolhapur
Dr. JJMCOE Jaysingpur,
Maharashtra, India.
poojachavan162000@gmail.com

Dhole Akshata Yuvraj
Shivaji University,Kolhapur
Dr. JJMCOE Jaysingpur,
Maharashtra, India.
dholeakshatay@gmail.com

Jamadade Vrushali Tanaji
Shivaji University, Kolhapur
Dr. JJMCOE Jaysingpur,
Maharashtra, India.
vrushalijamadade271@gmail.com

Mane Prajkta Shivaji
Shivaji University, Kolhapur
Dr. JJMCOE Jaysingpur,
Maharashtra, India.
prajktamane73677@gmail.com

ABSTRACT

Dairy Automation is an application or software designed to manage activities related to daily work such as milk collections from members, sales to the customer and all the dairy-related processes. It became tough for dairy owners to manage all dairy work manually. To reduce manual work, A Dairy Automation System can help to make day-to-day dairy related activities easier. In this Dairy Automation application, we will provide information about animal feed in milk dairy. The whole process you can manage with one app. Dairy software also manage in reporting, and accounting. To Manage various role of dairy, dairy owners need a dairy management system. It can ease a variety of a dairy process like member management, report analysis, accounting, milk supply and many more. Thus, the Dairy Owner can manage his contacts and daily working schedules through this application. This application avoids user to make manual contact diaries to store the contact address. Dairy Owner who is working on system can set events for the important work. Events will remind him about that work. The Dairy Member also able to Read the Messages.

INTRODUCTION –

In everyday life user faces some problems when they going to milk dairy like loss of passbook, fill incorrect data by dairy owner. For dairy owner it is also difficult to maintain and manage all records

D. J. Malpani College of Engineering Jaysingpur 416 101