



IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: indhaya@iecw.edu.in

CRITERION 1 – CURRICULAR ASPECTS

Key Indicator – 1.3 Curriculum Enrichment

1.3.3 Percentage of students undertaking project work/ field work/ internships (Data for the latest completed Academic Year).

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CERTIFICATE OF HEAD OF INSTITUTION



IDHAYA ENGINEERING COLLEGE FOR WOMEN

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.
2(f) Status of UGC, Permanently Affiliated Programmes & An ISO 9001 : 2015 Certified Institution
(A Unit of the Franciscan Sisters of the Immaculate Heart of Mary Society, Pondicherry)

DR .R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.IE.,
PRINCIPAL

TO WHOMSOEVER IT MAY CONCERN

Number of students undertaking Project work / Field work / Internships
during the Academic Year 2020-21 is 218.

The student participated in more than one activity has been counted as **ONE** only


PRINCIPAL

Dr.R.GURUMANI,M.E.,Ph.D.,M.B.A.,M.ISTE.,F.IE.,
PRINCIPAL
IDHAYA ENGG. COLLEGE FOR WOMEN
CHINNASALEM-606 201. KALLAKURICHI DT.



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LIST OF STUDENTS UNDERTAKING PROJECT WORK/ FIELD WORK/ INTERNSHIP



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Academic Year 2020-21

S.no	Register Number	Name of the Student	Project Work	Field Work	Internship
1.	621117104001	AARTHI V	√		
2.	621117104002	AKSHAYA K	√		
3.	621117104003	ANISHA V	√		
4.	621117104004	ANITHA D	√		
5.	621117104006	ANUJAYA K	√		
6.	621117104009	BUVANESWARI K	√		
7.	621117104010	DAISY C	√		
8.	621117104011	DEEPIKA M	√		
9.	621117104013	GAYATHRI B	√		
10.	621117104014	GOODLUCK V	√		
11.	621117104015	GOWRI K	√		
12.	621117104016	INDHIRA K	√		
13.	621117104017	INDHUJA S	√		
14.	621117104019	JANANI N	√		
15.	621117104020	JENIFER A	√		
16.	621117104021	JENIFER NAYAGI S	√		
17.	621117104022	JENIFFER RANJINI A	√		
18.	621117104023	KANIMOZHI P	√		
19.	621117104027	MANI BHARATHI D	√		
20.	621117104028	MATHESHWARI C	√		
21.	621117104029	MUTHULAKSHMI M	√		
22.	621117104030	NANDHINI E	√		
23.	621117104031	PADHMA J	√		
24.	621117104033	PAVITHRA.D	√		
25.	621117104034	PRABA B	√		
26.	621117104035	PRAVEENA P	√		
27.	621117104038	PRIYA C	√		
28.	621117104039	PRIYA R	√		
29.	621117104040	PRIYADHARSHINI.A	√		
30.	621117104041	RAMYA P	√		
31.	621117104042	RISWANA S	√		
32.	621117104043	ROMILA R	√		
33.	621117104044	SABITHRA K	√		
34.	621117104046	SARAL JAYARANI A	√		
35.	621117104048	SARULATHA K	√		
36.	621117104050	SHALINI S	√		
37.	621117104052	SOWBARNIKA A	√		
38.	621117104053	SOWNDHARYA V	√		
39.	621117104055	TAMILSELVI P	√		
40.	621117104056	UDHAYANILA U	√		
41.	621117104058	VASANTHAPRIYA V	√		

Praveena
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,
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42.	621117104059	VIJAYALAKSHMI S P	√		
43.	621117104060	VINTHIYA M	√		
44.	621118104001	AGNES TREESA	√		
45.	621118104002	ANGEL J	√		
46.	621118104003	APOORVASRI M	√		
47.	621118104004	BABYKALAIYARASI R	√		
48.	621118104005	BAVINA D	√		
49.	621118104006	BHARATHI M	√		
50.	621118104007	DEVIKA V	√		
51.	621118104008	GAYATHRI S	√		
52.	621118104009	HEMARITHI B	√		
53.	621118104010	INBANILA A	√		
54.	621118104012	KALAISELVI P	√		
55.	621118104013	KALAIVANI J	√		
56.	621118104038	KAVIYADHARSHINI R	√		
57.	621118104015	LYDIAL N	√		
58.	621118104016	MADHUMITHA K	√		
59.	621118104017	MARYSARAL A	√		
60.	621118104018	MONICA CECILI V	√		
61.	621118104019	NANDHINI P	√		
62.	621118104021	NISHA V	√		
63.	621118104022	PAVITHRA M	√		
64.	621118104023	PREETHA A	√		
65.	621118104024	PRIYA G	√		
66.	621118104025	PRIYANKA K	√		
67.	621118104026	RAGAVI K	√		
68.	621118104027	RAMYA R	√		
69.	621118104028	RAMYA T	√		
70.	621118104029	RAVEENA R	√		
71.	621118104030	RENUGADEVI M	√		
72.	621118104031	SANDHIGA.M	√		
73.	621118104032	SANGEETHA T	√		
74.	621118104033	SHEELA V	√		
75.	621118104034	SUBASRI E	√		
76.	621118104035	SUBHA G	√		
77.	621118104036	SWATHI V	√		
78.	621118104037	YUVASREE B	√		
79.	621119104001	ABINAYA S			√
80.	621119104003	ANCY A			√
81.	621119104004	BHUVANESHWARI M			√
82.	621119104005	DEEPA D			√
83.	621119104007	HARINITHA J			√
84.	621119104008	INFANT ROSHINI G			√
85.	621119104010	KRISHNAPRIYA S			√
86.	621119104011	MEERA K			√

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87.	621119104012	NIRMALA P			√
88.	621119104013	PRIYADHARSHINI M			√
89.	621119104014	PRIYA JENCY S			√
90.	621119104015	SANDHIYA M			√
91.	621119104016	SAVITHA M			√
92.	621119104017	SNEHA S B			√
93.	621119104018	SNEKA I			√
94.	621119104019	SOWMIYA A			√
95.	621119104020	SUBA M			√
96.	621119104023	YASHWINI A			√
97.	621117105002	BHARANI P	√		
98.	621117105003	CELCIYA L	√		
99.	621117105004	GAYATHRI V	√		
100.	621117105005	JEEVA Y	√		
101.	621117105006	KALVI P	√		
102.	621117105007	KOKILA S	√		
103.	621117105008	POONGUZHALI P	√		
104.	621117105010	PRIYADHARSHNI ALLWIN L	√		
105.	621117105011	RAJESHWARI R	√		
106.	621117105012	SANTHINI A	√		
107.	621117105013	SHAKILA ANANTHA BABY N	√		
108.	621117105014	SUGANYA P	√		
109.	621117105015	SUVITHA S	√		
110.	621117105016	UDHAYANILA V	√		
111.	621117105017	VEERAMMAL P	√		
112.	621118105001	AGASTIYA K	√		
113.	621118105003	CHANDHINI S	√		
114.	621118105004	INDIRA N	√		
115.	621118105005	KAVIYA S	√		
116.	621118105006	MADHUBALA S	√		
117.	621118105007	PAVEENA P	√		
118.	621118105008	PAVENDHIRA M	√		
119.	621118105009	PRAVINA V	√		
120.	621119105001	ANANDHI R			√
121.	621119105002	CHARUMATHI K			√
122.	621119105003	JANANI V			√
123.	621119105004	KAMALI S			√
124.	621119105005	KAVIYA S			√
125.	621119105006	MANISHA V			√
126.	621119105007	NANDHINI K			√
127.	621119105008	PAVITHRA G			√
128.	621117106002	ALAMELU A	√		
129.	621117106003	AMALA S	√		
130.	621117106004	ANITHA P	√		
131.	621117106005	ANJUGAM S	√		

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132.	621117106008	BHARATHI MEENA K	√		
133.	621117106009	BHARATHI T	√		
134.	621117106010	DEVIPRIYA G	√		
135.	621117106013	GOMATHI P	√		
136.	621117106014	HARANISHWARI R	√		
137.	621117106016	KAVIYA V	√		
138.	621117106017	KOWSALYA K	√		
139.	621117106018	MADHURASREE G	√		
140.	621117106019	MEENA K	√		
141.	621117106020	NANDHINI A	√		
142.	621117106022	PUNITHA D	√		
143.	621117106023	RANJITHA R	√		
144.	621117106024	RASIYA P	√		
145.	621117106025	SELVABHARATHI T	√		
146.	621117106026	SINDHUBALA B	√		
147.	621117106027	SNEKA A	√		
148.	621117106028	SRIMATHI M	√		
149.	621117106029	SUBHASHINI S	√		
150.	621117106030	SUBASRI S	√		
151.	621117106031	SUGANTHI C	√		
152.	621117106032	SUMITHRA M	√		
153.	621118106010	RAJAKUMARI P			√
154.	621119106001	ABARNA A			√
155.	621119106002	AZHAGUNILA S			√
156.	621119106003	BANUMATHI N			√
157.	621119106004	BHAVANI E			√
158.	621119106007	GAYATHRI G			√
159.	621119106008	ISHWARIYA. P			√
160.	621119106009	JANANI G			√
161.	621119106010	JENIFER A			√
162.	621119106011	JENO JENCY P			√
163.	621119106012	JOTHIKA C			√
164.	621119106013	KALKI P			√
165.	621119106014	KALPANA T			√
166.	621119106015	KAYATHRI V			√
167.	621119106016	MADHUMITHA A			√
168.	621119106017	MUGILA R			√
169.	621119106018	RAGHAVI R			√
170.	621119106019	RESHMA S			√
171.	621119106021	SHALINI G			√
172.	621119106022	SHREEIN FATHIMA S			√
173.	621119106023	SIDHARTHINI K S			√
174.	621119106024	SUBITHA K			√
175.	621117205002	ACCELIA	√		
176.	621117205003	AKSHAYA KA	√		

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177.	621117205004	ANANTHI S	√		
178.	621117205005	ANUPRIYA C	√		
179.	621117205006	ASHAMARY M	√		
180.	621117205008	BHUVANESWARI B	√		
181.	621117205009	CHANDHARALEKA J	√		
182.	621117205010	HEMALATHA S	√		
183.	621117205011	KANCHANA S	√		
184.	621117205012	MANJULA S	√		
185.	621117205013	MARY VALENTINA P	√		
186.	621117205014	NANDHINI A	√		
187.	621117205015	PRAVEENA V	√		
188.	621117205017	PRIYADARSHINI D	√		
189.	621117205018	PRIYANKA P	√		
190.	621117205020	SHAHIKA PARWEEN.M	√		
191.	621117205022	VAITHEESHWARI S	√		
192.	621118205001	AFREEN M	√		
193.	621118205002	ANNAKKODI B	√		
194.	621118205003	BHUVANESHWARI M	√		
195.	621118205004	DHULSIN A	√		
196.	621118205005	FARSHA T	√		
197.	621118205007	HEENA J	√		
198.	621118205008	INFANT DAICY T	√		
199.	621118205009	JESTIN JEEVA Y	√		
200.	621118205010	MADHUMITHA V	√		
201.	621118205011	MONIKA S	√		
202.	621118205012	ROSY J	√		
203.	621118205013	SNEHA V	√		
204.	621118205014	SWETHA M J	√		
205.	621118205015	VAIJAYANTHI V	√		
206.	621118205016	YAMUNASRI S	√		
207.	621118205901	DHARANYA G R	√		
208.	621119205001	ABINAYA S			√
209.	621119205002	DAYANAMARY C			√
210.	621119205004	MAGIMAI ILAKKIYA MARY C			√
211.	621119205005	NISHA M			√
212.	621119205006	RAMANI M			√
213.	621119205007	SARANYA V			√
214.	621119205008	VANISRI K			√
215.	621119403001	ANUSUYA A	√		
216.	621119403003	DIVYABHARATHI T	√		
217.	621119405001	PRINCY DIANA A	√		
218.	621119405002	SHARMILA DEVI N	√		

Gurumani
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**Supporting Documents for project work/
field work/ internships**

PROJECT WORK

**DEPARTMENT OF COMPUTER SCIENCE
ENGINEERING**



**RESOURCE ALLOCATION OF CLOUD
COMPUTING USING BROWNOUT
AND THROTTLED LOAD BALANCING
ALGORITHM**



A PROJECT REPORT

Submitted by

AARTHI.V

621117104001

JANANI.N

621117104019

PAVITHRA.D

621117104033

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING


IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM

ANNA UNIVERSITY::CHENNAI-600 025

APRIL 2021

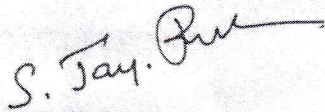
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CHINNASALEM-606 201. KALLAKURICHI DT.**

ANNA UNIVERSITY: CHENNAI-600 025

BONAFIDE CERTIFICATE

Certified that this project report “**RESOURCE ALLOCATION OF CLOUD COMPUTING USING BROWNOUT AND THROTTED LOAD BALANCING ALGORITHM**” is the work “**AARTHI.V, JANANI.N, PAVITHRA.D**” who carried out the project work under my supervision.



SIGNATURE

Mr.S.JAYA PRAKASH.,M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

Associate Professor/CSE,

Idhaya Engineering College for Women, Chinnasalem-606 201.



SIGNATURE

Sr.JANSI SOPHIA MARY., M.E.,(Ph.D)

SUPERVISOR

Associate Professor/CSE,

Idhaya Engineering College for Women, Chinnasalem-606 201.



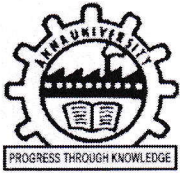
INTERNAL EXAMINER



EXTERNAL EXAMINER

ABSTRACT

An infrastructure build in the cloud computing with enabling access of CloudSim environment which is reliable to strength of commercial and non- commercial IT development communities of robust reputation management mechanism in the federated cloud. This project is mainly focuses IAAS paradigm of cloud computing environment with computational datacenter for resources which is access in the Virtual Machine in the form of cloudlets. This datacenter forms the resources with computational cost to the virtual network for low trust on the temporary resources with their computational resources protects the users to reduce the cost, computational resources are shared, i.e., there exists multi-tenancy. As the communication channels and other computational resources are shared, it creates security and privacy issues. A user may not identify a trustworthy cotenant as the users are anonymous. The user depends on the Cloud Provider (CP) to assign trustworthy co-ten hunting. But, it is in the CP's interest that it gets maximum utilization of its resources. Hence, it allows maximum co-tenancy irrespective of the behaviours of users. In this project, we propose a Brownoutself-adaptive paradigm (SAP) and Throttled Load Balancing Algorithm ie., hybrid Self-Adaptive Brownout (SAB) and Throttled Load Balancing (TLB) approach will be used to optimize resource allocation taking multiple parameters into consideration.



**WATER QUALITY MONITORING SYSTEM
USING INTERNET OF THINGS**



A PROJECT REPORT

Submitted by

AKSHAYA K

621117104002

BHUVANESHWARI K

621117104009

GOODLUCK V

621117104014

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

IDHAYA ENGINEERING COLLEGE FOR WOMEN

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ANNA UNIVERSITY :: CHENNAI-600 025

APRIL 2021


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Certified that this project report “**WATER QUALITY MONITORING SYSTEM USING INTERNET OF THINGS**” is the bonafide work of “**K.AKSHAYA, K.BHUVANESHWARI, V.GOODLUCK**” who carried out the project work under my supervision.



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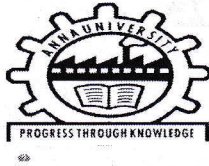


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ABSTRACT

The contamination of water has become a common problem globally. The conventional method of monitoring involves manual collecting water sample from different locations and tested in the laboratory using the rigorous skills. Such approaches are time consuming and are no longer to be considered to be efficient. Moreover, the current methodologies include analyzing various kinds of physical and chemical parameters. The old method of quality detection and communication is time consuming, low precision and costly. Therefore, there is a need for continuous monitoring of water quality system in real time. By focusing on the above issues, low cost monitoring system to monitor water in real time using IoT is proposed. In this system quality parameters are measured using different sensors such as pH, turbidity, temperature and communicating data onto a platform of microcontroller system and GPRS are used. The current developments in the field of sensor networks are critical for environmental applications. Internet of Things allows connections among various device with the ability to exchange and gather data. IoT also extends its capability to environmental issues in addition to automation industry by using industry by 4.0. As water is one of the basic needs of human survival, it is required to incorporate some mechanism to monitor water quality time to time. Around 40% of death are caused due to contaminated water in the world. Hence, there is a necessity to ensure supply of purified drinking Water Quality Monitoring(WQM) is a cost-effective and efficient system designed to monitor drinking water quality which makes use of Internet of Things(IoT) technology. In this project, the proposed system consists of sensors to measure parameters such as pH value and contamination level by colour sensor. And also, the Microcontroller Unit(MCU) interfaced with these sensors and further processing is performed and send it to nodemcu. The obtained data is sent to the cloud by IoT based bylink application to monitor the quality of water.


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**RESOURCE SCHEDULING BASED
DYNAMIC LOAD BALANCING IN CLOUD COMPUTING**

A PROJECT REPORT

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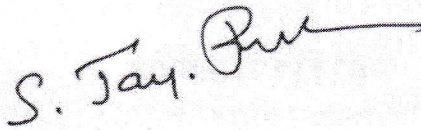
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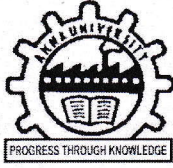


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ABSTRACT

Cloud computing has become essential buzzword in the Information Technology and is a next stage in the evolution of Internet, The Load balancing problem of cloud computing is an important problem and critical component for adequate operations in cloud computing system and it can also prevent the rapid development of cloud computing. One of the major issue for cloud computing is Load Balancing. Cloud Computing considers shared of configurable computing resources which requires proper resource distribution among the tasks, otherwise in some situations resources may over-utilized or under-utilized. For the sake of efficient resource utilization, Load Balancing System problem needs more attention in cloud computing. To overcome the issues in this work proposed the method Resource Scheduling based Dynamic Load balancing (RSDLB) Algorithm a new distribution technique of the entire incoming requests among the Server has been proposed with an improved dynamic load balancing in the cloud environment. Thus, its simulation is performed using the Cloud Analyst simulator three times with different numbers of tasks of different length. The simulation result is compared with some previously designed load balancing algorithms, in the cloud environment. Comparative analysis of simulation results establishes the fact that the incoming tasks are distributed dynamically among different available server which are of different configurations in a different data center.


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Advanced Skin Disease Diagnosis using CNN



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INTERNAL EXAMINER


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ABSTRACT

Air pollution affects human skin in many ways. Skin diseases are common in densely populated regions. These diseases have a devastating impact on people's lives by creating a huge need for the disease diagnosis. In this project, a skin disease determination system used which aims for an accurate diagnosis leveraging image processing. The methodology outlined here aims to identify skin disease by scrutinizing the input image. The method involves filtering of the input provided to remove noise, conversion of image to a grayscale image, and image segmentation. Feature extraction is used to minimize the amount of data to be processed by the classifier. The SVM (Support Vector Machine) is then used in the image classification to identify the skin disease. Use of CNN technology has led to an efficient and accurate way of diagnosis that aids in curing the disease more expeditiously.



**TWITTER BASED DISEASE IDEATION
FOR SEASONAL PREDICTION
USING DEEP LEARNING**



A PROJECT REPORT

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ABSTRACT

The strongest weapon to conquer the knowledge in today's world - "Internet", has unfortunately turned out to be one of our greatest obsessions in killing time and is affecting our daily activities and responsibilities with a massive desire to get rid of everything to be able to 'surfing internet apps and relax' all the time. Though the 'Internet Addiction' is gaining attention in the mental health field and had been recently added to the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) as a disorder, it needs a lot of research and standardized diagnosis. Their detection at an early stage is extremely important because the clinical interventions only during the last stage will make things worse and critical. In this project, we use the Twitter API to argue that the potential SNMD users can be automatically identified and classified into various categories like Virtual Relationship Addiction and Information Glut using SNMD based tensor model, with the data sets collected from OSN (i.e) Twitter API. The proposed model stands out in the list as the users are not involved in revealing their habits to understand and diagnose the symptoms manually. We also exploit multi-source learning in SNMDI in which we can able to see the users who are depressed and who are addicted to the social networks and propose a new SNMD based Tensor Model (STM) to improve the accuracy. The results show that SNMDI is reliable for identifying online social network users with potential SNMDs and the comments which increase the stress and aggressive mentality of the users in the Twitter API.



**Automatic Nursing and Remote
Monitoring of health for old People**



A PROJECT REPORT

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ABSTRACT

The acceleration of the population aging process is a serious social problem facing our country at present. As a special vulnerable group, the health of the elderly has received widespread social attention. Diabetes, high blood pressure, and other cardiovascular diseases are the biggest threat to the health of the elderly, to be monitored and cared. Many of the elder people are alone due to their son or daughter goes to office or went abroad. In this case Nurse to be appointed for elder persons to monitor their Physiological parameters and give medicines according to them. Due to invention of embedded system, sensor technology and IoT we can go for automatic caring system. In view of the current situation, that physiological parameter monitoring systems can only achieve local monitoring, and the multi-physiological parameter monitors are large, expensive, and disadvantageous to remote monitoring. Multiple physiological parameters such as heart rate, blood pressure, blood oxygen saturation, and body temperature in real time of the elder people are taken using sensors, based on that medicine will be automatically given to the people with the help of Automated Medicine Rack. Meanwhile the information also given to the family doctor and their son or daughter so that they can monitor remotely.



**Reducing Power Usage in Home
Security System through
IoT using Sensors**



A PROJECT REPORT

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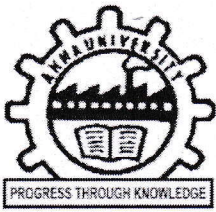
INTERNAL EXAMINER



EXTERNAL EXAMINER

ABSTRACT

Home automation alludes to the use of computer applications and information technology for control of home and residential appliances. Using IoT Home Automation like monitoring the functions of various accessories in the home is achieved. Apart from monitoring the accessories inside home, it is essential to identify whether unauthorized person enters into the home and using accessories and stealing them. Now-a-days, there is increase in thief cases, to identify the thief surveillance camera is fitted. If any person enters into the home, the camera captures the image and sends to the owner of house. Using IoT, this process is made easier. The surveillance system captures and send the image, the captured image is verified, if it is authorized person no issue, otherwise it sends the image for owner so that the owner takes steps to prevent the person from entering into the home. In our system we additionally uses some sensors to prevent the power usage of surveillance system.



IOT Based Industrial pollution monitoring system



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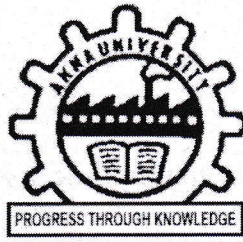
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EXTERNAL EXAMINER

ABSTRACT

In this project, we recommended a technique called the multi-view object tracking (MVOT) system to resolve the multiple cameras monitor an area from different angles. Videos recorded by the cameras contain complementary information and fusing the knowledge embedded in the videos facilitates the development of a robust and accurate system. Those task of cameras that have different settings, we propose a correspondence Yolo V3 algorithm that maps each segmented group of objects in one view to the corresponding group in another view. We call these corresponding groups matched blob clusters, each of which enables knowledge to be shared between cameras. It follows that we present a two - pass regression framework for multi-view objects.



**DIGITAL MEDIA MARKETING
USING TREND ANALYSIS ON
SOCIAL MEDIA**



A PROJECT REPORT

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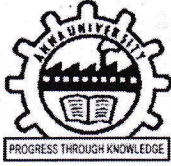


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ABSTRACT

Social Media has quickly gained prominence as it provides people with the opportunity to communicate and share posts and topics. Tremendous value lies in automated analysing and reasoning about such data in order to derive meaningful insights, which carries potential opportunities for businesses, users, and consumers. Many events in the world are accompanied by the Hash-Tag trends on social media. The whole idea behind this is to create such an application that would help in marketing of products and services over social media platforms. The technique is known as Social Media Marketing and is a sub-set of Digital Media Marketing. As of now there is no personalise engagement between marketers and clients. We aim to provide such data by Personal Engagement by providing a deep insight into the user's content and thus would generate quality data resulting in better customer base, high conversion and lower bounce



**ADAPTIVE RESOURCE
ALLOCATION USING BROWNET**



A PROJECT REPORT

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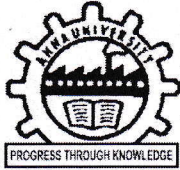
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ABSTRACT

An infrastructure build in the cloud computing with enabling access of CloudSim environment which is reliable to strength of commercial and non-commercial IT development communities of robust reputation management mechanism in the federated cloud. This project is mainly focuses IAAS paradigm of cloud computing environment with computational datacenter for resources which is access in the Virtual Machine in the form of cloudlets This datacenter forms the resources with computational cost to the virtual network for low trust on the temporary resources with their computational resources protects the users to reduce the cost, computational resources are shared, i.e., there exists multi-tenancy. As the communication channels and other computational resources are shared, it creates security and privacy issues. A user may not identify a trustworthy cotenant as the users are anonymous. The user depends on the Cloud Provider (CP) to assign trustworthy co-ten hunting. But, it is in the CP's interest that it gets maximum utilization of its resources. Hence, it allows maximum co-tenancy irrespective of the behaviours of users. In this project, we propose a Brownout self-adaptive paradigm (SAP) users and assign resources in such a way that they do not share resources. We show the correctness and the efficiency of the proposed reputation management system using analytical and experimental analysis.



Child Rescue System Against Open Borewell



A PROJECT REPORT

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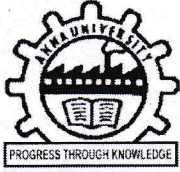


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ABSTRACT

In India we have N number of borewells which are left uncovered due to scarcity of water. Now the uncovered borewell turned as pitfalls for innocent life who playing near the borewell. As the diameter of the borewell is quite narrow (4.5-6inches) for adult and light goes dark inside it so rescue of the children from the borewell is a challenging task in those situations. In our project we install a sensor in the borewell which detect the falling of children and transmit the message to rescue team and nearby hospital which reduce the delaytime. And also, we proposed a robotic arm which lift the children safely. The arms are provided ultra-sonic camera which capture and record the status of the children and oxygen cylinder are also provided with it. The arm has human sensitivity and flexibility to lift the children. We use infrared rays to find posture of the children in the dark borewell. we proposed a robot which is used to secure the children during at the time of heavy rain. At the time of heavy rain, the robot covers the top of the borewell tightly which prevent the flow of water into it. This entire process is controlled by the pic microcontroller. This all the process is monitored at outside of the borewell by a technician.


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Multimodel Operation for Visually Impaired People Using Deep Learning



A PROJECT REPORT

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ANUJAYA.K

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in

COMPUTER SCIENCE AND ENGINEERING

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APRIL 2021

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Certified that this project report “**MULTIMODEL OPERATION FOR VISUALLY IMPAIRED PEOPLE USING DEEP LEARNING**” is the bonafide work of “**SOWBARNIKA.A (621117104052), RISWANA.S (621117104042), ANUJAYA.K (621117104006)**” who carried out the project work under my supervision.



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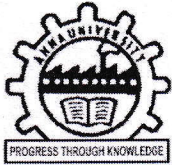
INTERNAL EXAMINER



EXTERNAL EXAMINER

ABSTRACT

In this project, we recommended a technique called the multi-view object racking (MVOT) system to resolve the multiple cameras monitor an area from different angles. Videos recorded by the cameras contain complementary information and fusing the knowledge embedded in the videos facilitates the development of a robust and accurate system. The set ask of cameras that have different settings, we propose a correspondence Yolo V3 algorithm that maps each segmented group of objects in one view to the corresponding group in another view. We call these corresponding groups matched blob clusters, each of which enables knowledge to be shared between cameras. It follows that we present a two-pass regression framework for multi-view objects.



UNDERSTANDING PICTURE PASSWORD

SELECTIONS BASED ON USER'S

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A PROJECT REPORT

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INTERNAL EXAMINER


C. Reikha

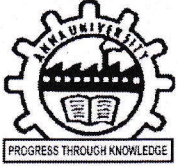
EXTERNAL EXAMINAR .

Reikha
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ABSTRACT

In three level graphical, text and color file security system the authentication is done by image representation password. Data sharing is an important functionality in cloud storage. In this article, we show how to securely, efficiently, and flexibly share data with others in cloud storage. We describe new public-key cryptosystems which produce constant-size cipher texts such that efficient delegation of decryption rights for any set of cipher texts are possible. The novelty is that one can aggregate any set of secret keys and make them as compact as a single key, but encompassing the power of all the keys being aggregated. In other words, the secret key holder can release a constant-size aggregate key for flexible choices of cipher text set in cloud storage, but the other encrypted files outside the set remain confidential.


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**TEACHERS TRACKING SYSTEM USING
ANDROID APP**



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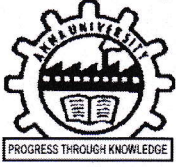
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INTERNAL EXAMINER

EXTERNAL EXAMINER

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E-BRIDGE ANDROID APPLICATION

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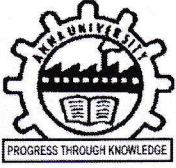
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VOICE-BASED E-MAIL FOR THE BLIND



A MINI PROJECT REPORT

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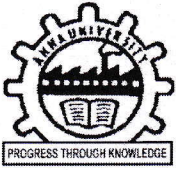
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**DETECTING IMPERSONATORS IN EXAMINATION
CENTRES USING AI**



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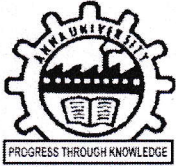
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**CANTEEN AUTOMATION SYSTEM USING NLTK
AND MACHINE LEARNING**



A MINI PROJECT REPORT

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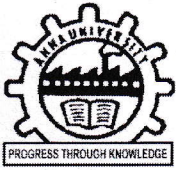


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**MOVIE CHARACTER RECOGNITION
FROM VIDEO AND IMAGES**



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PAID ADS WEBSITE APPLICATION



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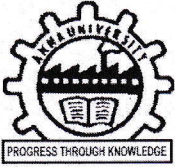
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EXTERNAL EXAMINER

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AUTOMATED ONLINE EXAMINATION SYSTEM



A MINI PROJECT REPORT

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RENUGADEVI M	621118104030
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ANNA UNIVERSITY:: CHENNAI-600 025

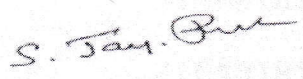
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INTERNAL EXAMINER

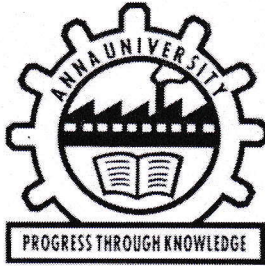


01/08/2021

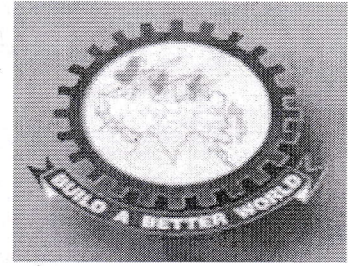
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**DEPARTMENT OF ELECTRICAL AND
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SMART AGRICULTURE SYSTEM USING IOT



A PROJECT REPORT

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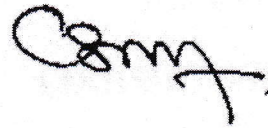
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Chinnasalem-606 201.

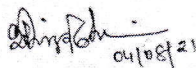


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Er.C.KUMAR.,M.E., MISTE.,

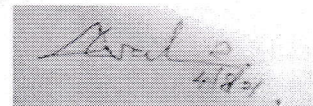
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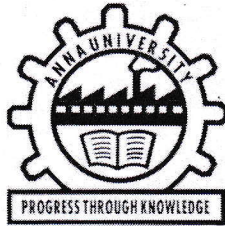


INTERNAL EXAMINER

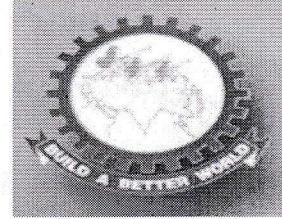


EXTERNAL EXAMINER


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**POWER QUALITY IMPROVEMENT
USING FEEDBACK
LINEARIZATION CONTROL IN DC
MICRO GRID
CONNECTED SYSTEM**



A PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project report “**POWER QUALITY IMPROVEMENT USING FEEDBACK LINEARIZATION CONTROL IN DC MICRO GRID CONNECTED SYSTEM**” is the bonafide work of “**L.CELCIYA, Y.JEEVA, P.KALVI, S.SUVITHA**” who carried out the project work under my supervision.



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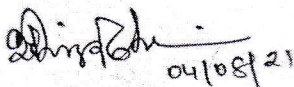


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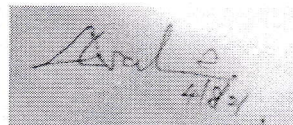
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4/8/21


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ABSTRACT

This method proposes the power quality of DC micro grid based on PV panel and using linearization feedback control through microcontroller. A PV panel is connected with DC-DC converter and linearization feedback control then it can be connected to the DC grid system. Here, a power quality control approach with inner loop as feedback linearization control is used to track the reference voltage across the DC micro grid. MPPT is used to Maximize power extraction of PV supply and it fetch into DC-DC converter. By converting the DC-DC for applying the DC micro grid system. The MPPT and the DC-DC converter injects desired amount of current to the DC grid to make the main grid supply. The performance of the proposed system is verified using MATLAB/SIMULINK.


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**ADVANCEMENT IN WIRELESS CHARGING
OF ELECTRIC VEHICLE WITH
IMPLEMENTATION OF SOLAR SYSTEM
A PROJECT REPORT**



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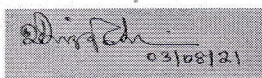
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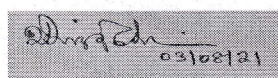
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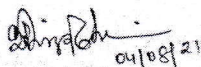
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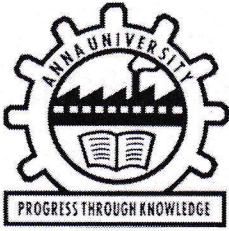
INTERNAL EXAMINER



EXTERNAL EXAMINER

ABSTRACT

The wireless solution is increasingly spreading as method of battery charging for Electric Vehicles (EVs). The standard technology of wireless EV battery charging is based on the Inductive Power Transfer (IPT) between two coupled coils, one connected to the electrical grid and the other one connected to the rechargeable battery. The IPT provides benefits in terms of safety and comfort, due to the absence of a plug-in operation: through IPT, the electrocution risk typically arising from power cords is avoided and the battery charging operation can automatically start. The wireless power transfer obviously represents the only solution for the dynamic charging, since the wired connection would be impossible during the motion. In spite of the undeniable advantages brought by Inductive Power Transfer, the researchers have to deal with several issues in order to make this technology even more attractive for the EV market. Furthermore, some technical aspects need to be taken into account in the practical implementation of an IPT system: for example, in order to obtain the maximum coupling, the misalignment between the coils must be as small as possible. As far as safety is concerned, even if the IPT allows to reduce the electrocution risk, some care is required regarding the magnetic field.



SMART ENERGY METER MONITORING SYSTEM USING IOT



A PROJECT REPORT

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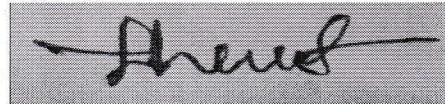
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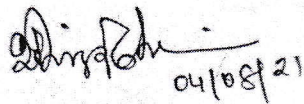


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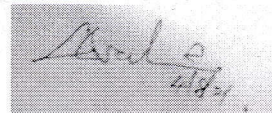
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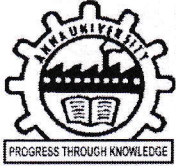


INTERNAL EXAMINER



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GENERATION OF ELECTRICITY THROUGH SPEED BREAKER



A MINI PROJECT REPORT

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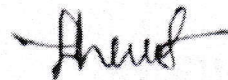
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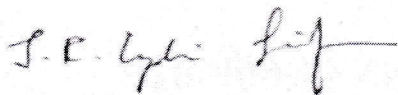
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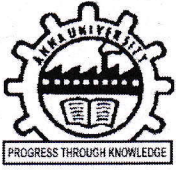


INTERNAL EXAMINER



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AUTOMATIC ROAD REFLECTOR LIGHT



A MINI PROJECT REPORT

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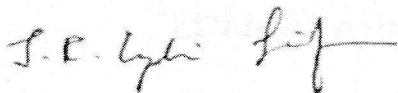
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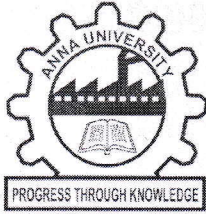
INTERNAL EXAMINER



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**DEPARTMENT OF ELECTRONICS AND
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**SARS – CoV – 2
DETECTION FROM
MEDICAL IMAGES USING
VGG 16 ALGORITHM**



A PROJECT REPORT

Submitted by

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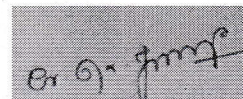
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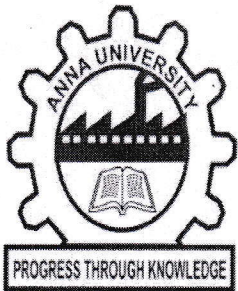


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ABSTRACT

The SARS-CoV-2 pandemic has affected millions of people worldwide. To date, several million people have gone to the valley of death and many more are getting affected by it on daily bases. Hundreds of subjects don't get diagnosed with COVID-19 at their early stage due to the shortage of testing equipment. The current approach to test COVID19 is by using reverse transcription-polymerase chain reaction (RT-PCR). This process is time consuming and due to its huge demand, there is a shortage of these kits. Round the globe, researchers are trying to find alternative techniques to diagnose coronavirus in affected people. Radiological equipment such as X-ray and CT-scan came up as potential alternatives for COVID-19 diagnosis. As per the idea, deep learning technology is used to diagnose COVID-19 in subjects through chest CT-scan. VGG16 algorithm is used for more accurate detection of coronavirus. Instead of performing horizontally and vertically flipped image conversion, it will perform blocking operation. Our proposed model achieved better result In terms of Accuracy, precision, Recall, F-score, respectively. The results are compared with both the traditional machine learning methods and those using Convolutional Neural Networks (CNNs). The results



A RADIATION PATTERN
RECONFIGURABLE FABRY-PEROT
ANTENNA USING LIQUID METAL



A PROJECT REPORT

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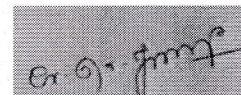
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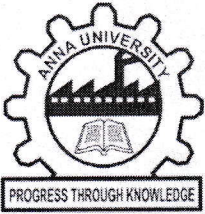
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**ADVANCED MOBILE AD-HOC NETWORK BASED ON
SECURE PACKET TRANSMISSION ROUTING PROTOCOL**



A PROJECT REPORT

Submitted by

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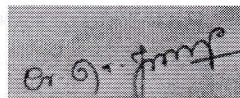
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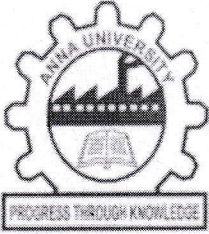
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ABSTRACT

New technology for the advanced Mobile Ad-hoc Network (MANETs) is based on the wireless multi-hop architecture without prior setting of fixed infrastructure and the network node. Mobile Ad-hoc Network (MANETs) autonomous operation can be mobile, multi-hop, it is the infrastructure-less wireless network. Security is one of the biggest challenges in advanced Mobile Ad hoc Network (MANETs). Thus, the MANETs and security needs, there are two considerations must be, so that the second routing protocol in order to protect the secure data transmission. In the routing and security that is an important aspect for in a MANETs, existing method routing protocol, however, is not enough to less security, low efficient requirements. The proposed method Secure Packet Transmission Routing Protocol (SPTRP) algorithm used designed to maximize the data security, routing path change, minimizing the impact of detection of Man-in-the-middle (MitM) attack activity over the spectrum, and select the best path. The general terms advanced MANETs routing protocol, the security, and routing protocol. The proposed SPTRP algorithm improves the energy efficiency of the network and reduces the Data loss rate of the node. The proposed method shows high performance than other existing evaluations of the most advanced state security and routing delay end-to-end Data transfer rate, Data loss.



**COVID-19 DETECTION BY PI
CAMERA AND TEMPERATURE
MEASUREMENT USING
RASPBERRY PI CONTROLLER**



A PROJECT REPORT

Submitted by

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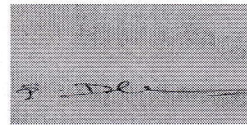
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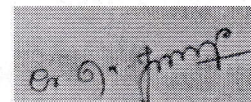
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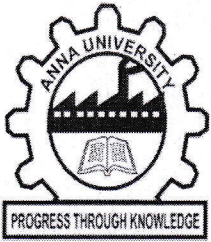
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EXTERNAL EXAMINER

ABSTRACT

Man-made diseases are the outcome of lack of awareness, lack of sensitivity towards the safety measures to be taken to prevent COVID-19. Thermal Cameras can assist with Corona virus fever screening by detecting elevated body temperatures in moving crowds such as passengers, commuters and visitors, with accuracy up to $\pm 0.3^{\circ}\text{C}$. The cameras provide color images and temperature scales, and sound alarms that can be set to go off when a certain temperature threshold is exceeded. These functions make it easy for an operator to instantly decide whether the subject needs to be referred for medical examination. In this method, we propose prototype for counting the people as a part of developing better crowd monitoring system. The system counts people and displays the result in a user friendly interface. In this time when COVID-19 is spreading rapidly, it is essential to maintain social distance and avoid large public gatherings at one place to break the chain of corona infection. But maintaining this is not easy. Many people, knowingly or unknowingly, gather and roam on the streets. Keeping an eye on all these activities is not an easy job. The authorities need reliable technology that can survey such places to prevent any unnecessary movement. Some law enforcement departments have been using drones and other surveillance cameras to detect mass gatherings of people, and taking regulatory actions to disperse. Such manual intervention in these



**VLSI BASED LOW COMPLEXITY
INTERVAL PASSING ALGORITHM
FOR BINARY COMPRESSED SENSING**



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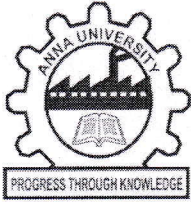
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ABSTRACT

Binary compressed sensing (BCS), in which signals of interest have binary values, finds applications in areas including fault detection and wireless sensor networks. In this method, a low-complexity VLSI architecture for BCS based on interval passing algorithm is proposed. BCS codes have been adopted in latest wireless standards such as electronic devices communications since they possess superior error-detecting and correcting capabilities. As technology scales, memory devices become larger and more powerful and low power consumption based error correction codes are needed.

Moreover, the algorithm is modified in order to reduce its complexity without significant loss in performance, and its corresponding VLSI architecture is proposed. Binary compressed sensing (BCS) matrices based on finite geometry have been used as measurement matrices. The proposed VLSI architectures have been synthesized in both ASIC and field-programmable gate array (FPGA) platforms. As technology scales, memory devices become larger and more powerful and low power consumption based error correction codes are needed. Moreover, the proposed architectures offer high frequency of operation and low reconstruction time when compared to the state-of-the-art designs.



**UTILIZATION OF ENERGY EFFICIENCY
IN WIRELESS NETWORK CONTROL
SYSTEMS USING RANDOM ACCESS
CONTROL AWARE SCHEDULING
ALGORITHM**



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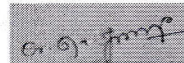
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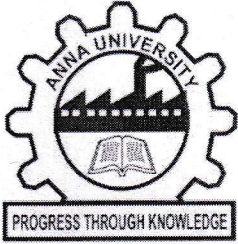
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**PERFORMANCE ANALYSIS OF BRAIN
TUMOR IMAGE CLASSIFICATION
USING CNN AND SVM**



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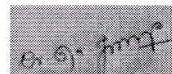


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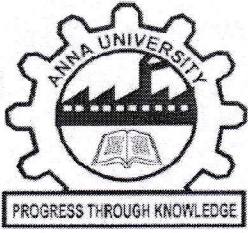
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ABSTRACT

Brain tumor is an unprecedented growth of cells in the brain region. Its detection at early stages ensures the survival of the patient and hence contributes significantly to Healthcare sector. In India, There is a scarcity of quality medical practitioners, due to hectic and challenging schedule of medical practitioners, especially in rural areas. In order to speed up the diagnosis and to serve as second decision for neurologists, this method is proposed. The classification process undergoes following steps- pre-processing which includes downsizing of MR image and adding salt noise to image, also, geometric augmentation is done to increase the dataset size. Then, the images from each type of tumor are shuffled and divided into training (60%) and validation (20%) and testing (20%) of the dataset. Since bio-medical images are difficult to analyze therefore CNN and SVM are chosen due to their classification based on depth of feature extraction. CNN does the extraction using convolution layers and as the depth increases level of feature goes higher. Whereas in SVM, features are extracted depends on type of texture or pattern in the image and classes which have similar features, can be classified easily. So, CNN and SVM based architectures are selected to train using the training set and then this trained model is tested using validation and testing dataset. Finally, the accuracy of the classifier models is calculated and conclusion is drawn.



**ENHANCED SYSTEM FOR
RAILWAY TRACK FAULT
DETECTION USING AI BASED
SOLAR POWER**



A PROJECT REPORT

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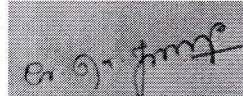


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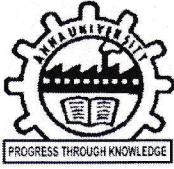
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ABSTRACT

India is one of the fastest developing countries with significant advancement in the field of the railway network. Railways has one of the largest railway networks to reliability and passenger safety. Among other factors, cracks developed on the rails due to absence of timely detection and the associated maintenance pose serious questions on the security of operation of rail transport. Manual detection of tracks is cumbersome and not fully effective owing to much time consumption and requirement of skilled technicians.

This work is aimed towards addressing the issue by developing an automatic railway track crack detection system. This work introduces a project that aims in designing robust railway crack detection scheme (RRCDS) using TSOP IR Receiver Sensor assembly system which avoids the train accidents by detecting the cracks on railway tracks. The capable of alerting the authorities in the form of SMS messages along with location by using GPS and GSM modules. The system also includes distance measuring sensor which displays the track deviation distance between the railway tracks.

**DEPARTMENT OF INFORMATION
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**ONLINE IDENTIFICATION AND DATA RECOVERY
FOR PMU USING DATA MANIPULATION ATTACK**



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ABSTRACT

Some of the modern smart grid infrastructures, phasor measurement units (PMUs) for instance, are vulnerable to cyber attacks due to their ever-increasing dependence on information and communications technologies. In general, existing solutions to cyber attacks focus on creating redundancy and/or enhancing security levels of sensing and communication networks. These solutions require intensive offline efforts and therefore are economically expensive. Further, they are generally inefficient when dealing with dynamic attacks. This paper proposes a novel density-based spatial clustering approach for online detection, classification, and data recovery for data manipulation attacks to PMU measurements. The proposed method is purely data-driven and is applicable to simultaneous multi-measurement attacks without requiring additional hardware in the existing infrastructure. The proposed approach is also independent of the conventional state estimation (SE). Comprehensive case studies demonstrate the effectiveness of the proposed method.


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Android Controlled Solar Grass Cutter



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EXTERNAL EXAMINER

ABSTRACT

Manual grass cutting requires man power, time and it may create non-uniform structure of grass height. Hence to avoid all these issues it is essential to create a system which can cut the grass without any human involvement. This research implements the grass cutting robot which has battery which can be charged by solar energy. This robot can be operated using android phone. This system can be created with minimum cost as compared to other existing systems. This is rugged, durable and maintenance free. This system is pollution free due to the use of solar energy to charge the battery. The present technology commonly used for cutting the grass by using the manually handle device. The method to fabricate a grass cutting machine system controlled by android application using Wifi module feature which runs with the help of motor by using solar energy. In previous days, grass cutter machines are operated by fuel and electrical energy which are costly and requires high maintenance. The solar panel is used to charge the battery so that there is no need of charging it externally. The solar based energy source is easier to use, more advantageous compared to other energy and it is easy to work. By the use of solar panels we can harness sunlight to generate electricity free of cost. The trapped solar energy is used to charge the battery for grass cutting operation. The movement of the machine is totally controlled by automatic mode or manual mode. The Wifi controller run this machine movement and direction through an android application. The controlling device of the whole system is microcontroller. Bluetooth module and DC motors are interfaced to the microcontroller. The data received from the android phone application by Wifi module is fed as input to the controller and the controller acts according on the DC motor of the solar grass cutter. In achieving the task.



Hybrid Event and Booking System



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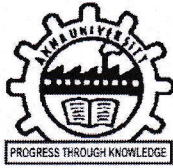
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ABSTRACT

Parking is costly and limited in almost every major city in the world. Innovative parking systems for meeting near-term parking demand are needed. This project proposes a novel, secure, and intelligent parking system (Smart Parking) based on imminent to best support the urban core. These persistent parking problems could be turned into new opportunities, brought by current trends in meeting the globally connected continuum. This project reveals a work-in-progress to capitalize on private land properties for parking, in order to relieve stress on public agencies, create new sources of revenue, and enlist new entities in the intermediary market. These intermediaries, labelled as Parking Service Providers (or PSPs) play a broker role through advertising parking lots on a shared cloud platform. To streamline these business collaborations and related processes, physical parking lots are augmented with Internet connectivity allowing cloud-provided applications to congregate these lots into a larger inventory.. From the point of users' view, Smart Parking is a secure and intelligent parking service. The parking reservation is safe and privacy preserved. The parking navigation is convenient and efficient. The whole parking process will be a non-stop service. From the point of management's view, Smart Parking is an intelligent parking system. Based on the prediction, new business promotion can be made, for example, on-sale prices and new parking fees. In Smart Parking, new promotions can be published through wireless network.


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FAULT INJECTION ANALYSIS



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ABSTRACT

Fault injection is needed for different purposes such as analyzing the reaction of a system in a faculty environment or validating fault-detection and/or fault-correction techniques. In this project we propose a simulation-based fault injection tool able to work at different abstraction levels and with user- defined fault models. By exploiting the facilities provided by a functional verification environment it allows to speed up the entire fault injection process from the creation of the workload to the analysis of the results of injection campaigns. Moreover, the adoption of techniques to optimize the fault list significantly reduces the simulation time. Being the tool targeted to the validation of dependable systems, it includes a way to extract information from the Failure Mode and Effect Analysis and to correlate fault injection results with estimates. A great number of new security tools have been developed to solve the problems of IP networks, but some doubts were raised about the efficiency of those systems. There are some techniques used to evaluate the vulnerabilities of a network, but their results are limited and few tools aim to facilitate and automate the evaluation of security network mechanisms. This article presents a network fault injection system especially created to test network security equipment, aiming to solve the inexistence of this type of tool and to full the gap between packet injectors and vulnerability scanners.



U_turn Accident Prevention using IOT



A PROJECT REPORT

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in


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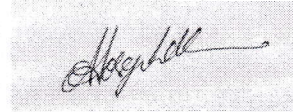
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ABSTRACT

In the developing countries accident is the major cause of death. The most unfortunate thing is that we don't learn from our mistakes on road. Out of these 15% of the accidents are due to the carelessness by the drivers which can be either they drive above the speed limit or they do not oversee the obstacles on the road. Main cause of accidents and crashes are due to human errors. Most of the accidents occurs at natural places like mountain roads and curve roads. In the mountain roads as well as in T-roads in developed areas, there will be tight curves and the roads will be narrow. In these kinds of situations the driver of a vehicle cannot see vehicles coming from opposite side. Thousands of people lose their lives because of this problem. The solution for this problem is alerting the driver about the vehicle. This is done by keeping an ultrasonic sensor in one side of the road before the curve and keeping a LED light after the curve, so that if vehicle comes from one end of the curve sensor senses and LED light glows at the opposite side. By looking at the LED light on/off criteria driver can become alert and can slow down the speed of the vehicle.


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BUG TRACKING SYSTEM



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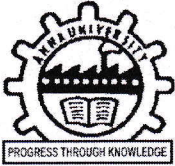
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WEB-BASED ONLINE LIBRARY SYSTEM



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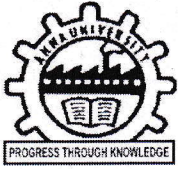
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**DESIGN AND DEVELOPMENT OF SPEED
CASH SYSTEM**



A MINI PROJECT REPORT

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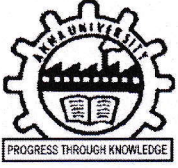
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SECURITY ISSUE OF CLOUD-BASED STORAGE



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M.E-COMMUNICATION SYSTEMS



**IMAGE TO TEXT AND TEXT TO SPEECH
SYNTHESIS FOR VISUALLY IMPAIRED
PEOPLE USING OCR IN RASPEBRRY PI**



PHASE II REPORT

Submitted by

A.ANUSUYA

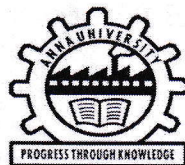
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IN

Electronics and Communication Engineering



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ABSTRACT

Human communication today is mainly via speech and text. To access information in a text, a person needs to have vision. However, those who are deprived of vision can gather information using their hearing capability. The proposed method is a camera based assistive text reading to help blind person and the travelers in reading the text present on the text labels, printed notes and products in their own respective languages. It combines the concept of Optical Character Recognition (OCR), text to Speech Synthesizer (TTS) and translator in Raspberry pi. Optical character recognition (OCR) is the identification of printed characters using photoelectric devices and computer software. It converts images of typed, handwritten or printed text into machine encoded text from scanned document or from subtitle text superimposed on an image. Text-to-Speech conversion is a method that scans and reads any language letters and numbers that are in the image using OCR technique and then translates it into any desired language and at last it gives audio output of the translated text. The audio output is heard through the raspberry pi's audio jack using speakers or earphones.


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**PREVENTION OF ACCIDENTS DUE TO
DROWSINESS OF DRIVERS BY EFFECTIVE
IDENTIFICATION OF DROWSINESS USING
IMAGE PROCESSING**



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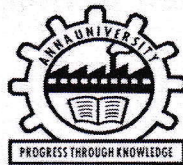
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IN

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ABSTRACT

Nowadays, more and more professions require long-term concentration. Drivers must keep a close eye on the road, so they can react to sudden events immediately. Driver fatigue often becomes a direct cause of many traffic accidents. Therefore, there is a need to develop the systems that will detect and notify a driver of her/him bad psychophysical condition, which could significantly reduce the number of fatigue-related car accidents. However, the development of such systems encounters many difficulties related to fast and proper recognition of a driver's fatigue symptoms. One of the technical possibilities to implement driver drowsiness detection systems is to use the vision-based approach. This article presents the currently used driver drowsiness detection systems. Here we are detecting the driver drowsiness by estimating vision system of him.


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**M.E-COMPUTER SCIENCE
ENGINEERING**



**A ROBUST HAND GESTURE RECOGNITION
METHOD VIA MACHINE LEARNING
ALGORITHMS**



PHASE II REPORT

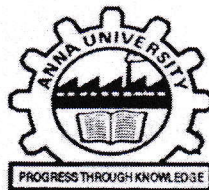
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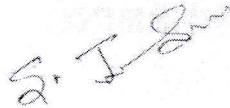
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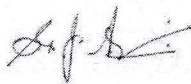
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ABSTRACT

Hand Gesture Recognition is an engaging way to interact with the people. A primary goal of this Gesture Recognition Research is to create a system which can identify Hand Gestures and recognize the Hand Sign Languages and then converting the message into the text and speech. The translated text and speech reduce the demand of intermediate translators of the Sign Language and also provides a feasible Communication. The system recognizes live motion of the hand gestures and detects sign and the message. This Hand Gesture recognition system is used for interfacing between computer and human using Sign Language. Hand Gesture Recognition System is gaining more attention because of their demand in Communication system and also in Security Systems. Though they have sign language, they have to depend on some sort of visual communication. This system detects the hand gestures i.e. sign language through the web camera and converts it into speech and text through Machine Learning algorithm. The machine learning algorithms includes KNN , Deep Learning , and Tensor Flow to recognize a number of different gestures classes.



**A CLINICAL DECISION SUPPORT
FRAMEWORK FOR HETEROGENEOUS DATA
SOURCES FOR MEDICAL MANAGEMENT**



PHASE II REPORT

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SHARMILA DEVI N

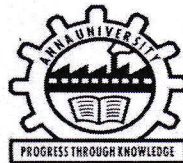
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IN

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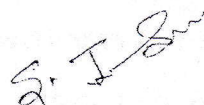
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ABSTRACT

To keep pace with the developments in medical informatics, health medical data is being collected continually. But, owing to the diversity of its categories and sources, medical data has become highly complicated in many hospitals that it now needs Clinical Decision Support (CDS) system for its management. To effectively utilize the accumulating health data, we propose a CDS framework that can integrate heterogeneous health data from different sources, such as laboratory test results, basic information of patients, and health records into a consolidated representation of features of all patients. Using the electronic health medical data so created, multi-label classification was employed to recommend a list of diseases and thus assist physicians in diagnosing or treating their patients' health issues more efficiently. Once the physician diagnoses the disease of a patient, the next step is to consider the likely complications of that disease, which can lead to more diseases. Previous studies reveal that correlations do exist among some diseases. Considering these correlations, a k-nearest neighbor's algorithm is improved for multi-label learning by using correlations among labels (CML- k NN). The CML- k NN algorithm first exploits the dependency between every two labels to update the origin label matrix and then performs multi-label learning to estimate the probabilities of labels by using the integrated features. Finally, it recommends the top N diseases to the physicians.


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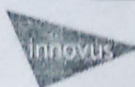
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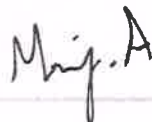
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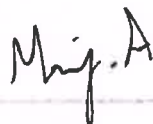
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This is proudly presented to

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II Year EEE student of
Idhaya Engineering College for Women
for her completion of Internship on
BASICS OF MATLAB FOR CONTROL SYSTEMS
from 05th to 14th May 2021



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Supervisor



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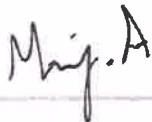
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