PANIMALAR INSTITUTE OF TECHNOLOGY

(A CHRISTIAN MINORITY INSTITUTION)

JAISAKTHI EDUCATIONAL TRUST

AN ISO 9001:2008 CERTIFIED INSTITUTION

391, BANGALORE TRUNK ROAD, VARADHARAJAPURAM,

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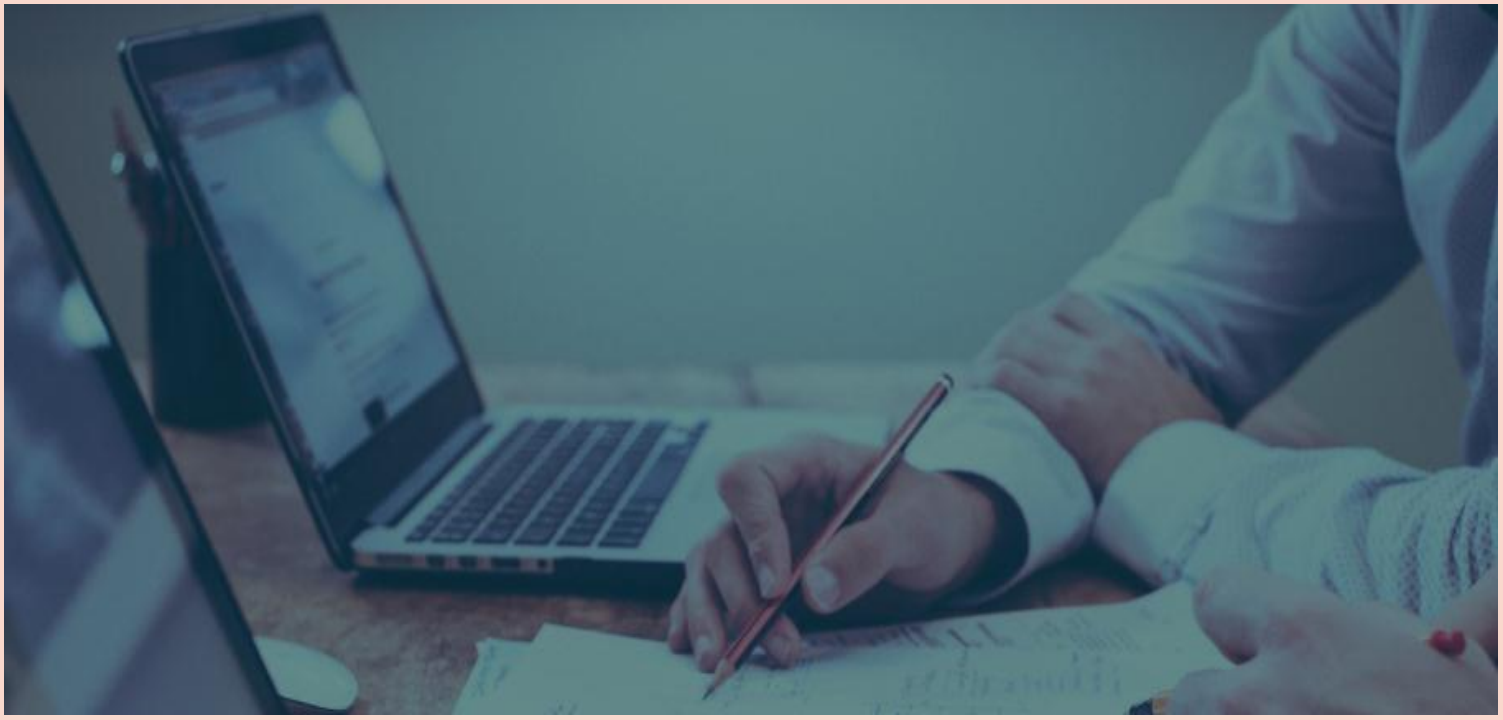
ENVISION'19

Technical Magazine

DEPARTMENT OF INFORMATION TECHNOLOGY

Accredited by national board of accreditation



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DEPARTMENT OF INFORMATION TECHNOLOGY

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Secretary & Correspondent

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STUDENT CO-ORDINATORS

KEERTHI SMARAN K

SUNANDHA DEVI R

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ABOUT THE COLLEGE

Panimalar Institute of Technology started by Jaisakthi Educational Trust focuses mainly on disseminating knowledge coupled with discipline and ethics. It is a Christian Minority Institution and a self-financing engineering college with five streams viz. CSE, IT, ECE, EEE and MECH at present. This Institution is affiliated to Anna University meets the guidelines of AICTE, New Delhi in all aspects.

Our College is a combination of a world class infrastructure built upon the greatest faculty strength combined with a pictures environment to chisel the finest minds into the most capable future generations of India. It is located in Poonamallee, not far away from Chennai city limits.

Our Institution is likely to expand its sphere in other facilities also. The Institution takes care to impart updated and high quality technical education throughout the year.

Special care is taken in the matter of students becoming qualified as well as competent to face the challenges of the leading corporates in the present world of tough competition. Every effort is taken to transform the students into well rounded personality with strong confidence and sound character making no compromise in perfection, morality, dedication and commitment.

VISION AND MISSION OF THE COLLEGE

VISION:-

An Institution of Excellence by imparting Quality Education and serve as a perennial source of Technical Manpower with dynamic professionalism and entrepreneurship having social responsibility for the progress of the society and nation.

MISSION:-

Panimalar Institute of Technology will strive to emerge as an Institution of Excellence in the country by

- **Providing State-of-the-art infrastructure facilities for designing and developing solutions for Engineering problems.**
- **Imparting Quality education and training through qualified, experienced and committed members of the faculty.**
- **Inculcating high moral values in the minds of the Students and transforming them into well-rounded personality.**
- **Establishing Industry Institute interaction to make students ready for the industrial environment.**
- **Promoting research based projects/activities in the emerging areas of Engineering &Technology.**

We don't make just Engineers, but we make successful Individuals!!!

VISION AND MISSION OF THE DEPARTMENT

VISION:-

To impart technical knowledge through quality education and to develop high employability skills, self-discipline and to bring talented engineering graduates to serve the nation.

MISSION:-

M1: To prepare our students to achieve the destination in the field of Information Technology.

M2: The department is dedicated to provide a dynamic learning environment that meets the industry needs.

M3: To facilitate the students to be technically exposed to latest tools and technologies.

M4: The department encourages to do research based project and activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

The program educational objectives for the Information Technology program describe accomplishments that graduates are expected to attain within four years after graduation and the graduates will:

PEO I: To bestow the students with skills of mathematics, science and basic engineering to formulate, analyze and solve engineering problems.

PEO II: To prepare students to apply their acquired skills in emerging technology and make them to be employed in area of Information technology.

PEO III: To pursue higher education or to apply the technical knowledge as practicing professionals.

PEO IV: To conduct themselves in a responsible, professional

and ethical manner.

PEO V: To improve knowledge, skills and competences within a personal, social and employment-related perspective, by learning new technologies.

TIMING AND PERSEVERANCE WILL EVENTUALLY BRING SUCCESS!!!

ABOUT THE DEPARTMENT

The IT Department has been established in 2008 to render services to meet the growing global challenges of engineering industries by educating the students to become exemplary professional Information Technology engineers of high ethics. Our Department aims to inculcate profound knowledge and skills in the areas of Information Technology. The mission of the department is to impart high quality undergraduate education and carryout leading edge research in the discipline of Information Technology, marching towards the future enhancement. Consistent with the high standard of excellence aimed by the Institution, the faculty comprises a team of carefully selected and highly qualified persons who have proven record of meritorious accomplishments to their credit. We have Doctorates and Postgraduates specialized in various disciplines that have extensive industrial and teaching experience. The staff strength is according to the norms prescribed by All India Council for Technical Education, New Delhi, Government of Tamil Nadu and Affiliated to Anna University. The department has various laboratories equipped with the state-of-the art computing facilities to support the research and teaching activities. A library with various books on Information Technology for the exclusive use of the faculty and student is located in the premises of the department.

Dr.A.Joshi. M.E, Ph.D. is the Head of the Department.

LAB FACILITIES

LAB FACILITIES

MESSAGE FROM THE SECRETARY

Dr.P.CHINNADURAI,M.A,Ph.D.,

Secretary & Correspondent

I am very much honored and proud that Department of Information Technology has involved in many technical and other activities in building up the student career. The Department of Information Technology is doing excellent work bringing together software engineers to expose and share their knowledge and intelligence.

In the challenging world with stiff competition in new technologies, innovation in emerging science and changing economy, a great awareness of newer achievements on the latest technology will be created in the country through these unique activities with zest and zeal. I extend my hearty congratulations to the entire faculty and students of Department of Information Technology for their enthusiasm to achieve success.

MESSAGE FROM THE DIRECTOR

Mr.C.SAKTHI KUMAR., M.E.,

Director

I am happy that Department of Information Technology is bringing out department magazine. The department magazine will definitely help to showcase the activities that are happening in the campus. IT department has involved in activities to empower the student community.

The Department of Information Technology competitive edge in innovation, design and manufacturing. These activities would bring the engineers together to share ideas in various fields to create new inventions and innovations in the electronics society. The Department of Information Technology will lay the path for the rapidly changing market place for engineering product places greater importance on small and startup companies which can innovate more quickly than large corporations.

MESSAGE FROM THE PRINCIPAL

Dr.T.JAYANTHY,M.E.,Ph.D.,

Principal

I am very much proud to address and acknowledge the activities performed by the Department of Information Technology. The Department of Information Technology performs these activities with a motto to bring out hidden talents from the young engineers and to exchange their ideas and knowledge in various fields of electronics. I believe that the activities conducted by the Department of Information Technology will provide a platform to share, discuss and to exchange their views in exciting themes and wish them a great success in all their endeavors. I extend my warm patronage to all those who have contributed their best to achieve success.

MESSAGE FROM THE HEAD OF THE DEPARTMENT

It is a great pleasure to head the Department of Information Technology. The aim of the department is to provide high quality education and training the students with all the new emerging technologies in the Information Technology field.

The department places emphasis on all the important aspects of computers such as Mobile Computing, Algorithm Design, Database Management Systems, Compiler Design, Computer Graphics and etc., The department also takes initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently.

INDUSTRIAL VISIT

- **II and III year IT GIRLS:**

The second and third year IT girls went on an industrial visit to SATHANUR HYDRO POWER PLANT, THIRUVANAMALAI on 02.03.2019 (Saturday).They have gained a clear understanding about the hydro power plant.

- **II and III year IT BOYS:**

The second and third year IT boys went on an industrial visit to JEPPIAR MILK PRODUCTS PVT.LTD,THIRUVANAMALAI on 02.03.2019 (Saturday). They have gained a clear understanding about the manufacturing of milk products.

STAFF JOURNAL PUBLICATIONS

DEVELOPING AN ASSISTIVE AID FOR BLIND PEOPLE USING IOT

International Journal of Innovative Research in Science, Engineering and Technology

M.RAJESWARI

ABSTRACT:

This paper is targeted to develop a Raspberry Pi based helpful aid for visually impaired users using haar-cascade and LBP algorithm. People who are visually impaired struggle daily in acting actions that may be a straight forward as moving from one purpose to a different while not falling down or sound against obstacles. An Electronic Travel Aid (ETA) could be a sort of helpful technology having the aim of face identification, MRP detection, controls electrical appliances, location identification further as reading newspapers and books. The most advantage of using haar-cascade methodology is it's extremely detection accuracy and also used to detect the face of the person. The advantage of using LBP methodology is its shorter training time and is used to analyse the face. A prototype at the low cost is developed to the issues being long-faced by the visually impaired while interacting with their environment.

SOLID WASTE MANAGEMENT AND ELECTRICITY GENERATION USING IOT

International journal of Innovative research in Computer and Communication Engineering

S.IRIN SHERLY

ABSTRACT:

The gathering and transfer of waste in a satisfactory way influences condition to end up greener and more secure. Henceforth, advancement of waste is essential for day to day life. The major heart of the issue in the waste management is that when the trash bin at public places gets overfull and when it is not cleaned immediately causes foul odor, which becomes outbreaks of contagious diseases. Various resources can be made out from the waste that we collect. This can be done by the use of IoT, which is the emerging technology that delivers many smart solutions. An ultrasonic sensor is been fitted at the trash bin which monitors the bin. Once the bin becomes full it intimates the nearby truck driver by sending notification via GSM. Thus, the garbage waste will be collected by the truck driver. To make optimize use of these waste, the collected waste will be decomposed and after some duration of time, the pH value of the waste will be checked using fertilizer sensor. If the range falls between 5.5 to 7 it will be used as a fertilizer for plants. The paper waste is incinerated and by using peltier sensor electricity is produced. Providentially, IoT provides solution for efficient resource optimization.

A SURVEY ON RESOURCE ALLOCATION STRATEGIES IN CLOUD

International Journal of Reasoning-based Intelligent Systems (IJRIS)
(Scopus Indexed)

J. CHENNI KUMARAN

ABSTRACT:

Cloud computing has turned into age innovation that has tremendous possibilities in endeavors and markets. Cloud can make it conceivable to get to applications and related information from any place. Organizations can lease assets from cloud for capacity and other computational purposes so that their framework cost can be lessened fundamentally. Facilitate they can make utilization of vast access to applications, in view of pay-as-you-go display. Henceforth, there is no requirement for getting licenses for individual items. In this paper, different asset portion methodologies and their difficulties are talked about in detail. It is trusted that this paper would profit both cloud clients and analysts in defeating the difficulties confronted.

DIABETIC RETINOPATHY DETECTION USING TENSOR FLOW BASED ON MACHINE LEARNING

International Journal of Innovative Research in Science, Engineering and Technology

M.RAJESWARI

ABSTRACT:

Diabetic retinopathy is a main source of visual impairment among working-age grown-ups. It affects the blood vessels of the light-sensitive tissue at the back of

the eye (retina). Early screening and treatment of DR prevents vision deterioration, however the recommendation of yearly screening is often not being met. Hemorrhages, hard Exudates, and Micro-aneurysms (HEM) that appear in the retina are the early signs of DR. Early diagnosis of HEM is crucial to prevent blindness. Textures features such as Local Binary pattern (LBP), Local Ternary Patter (LTP) and Local Energy-based Shape Histogram (LESH) have been widely used in the past as a technique for DR detection. This paper focuses on a machine learning solution that identifies vascular diseases of the retina affected with diabetes mellitus using Tensor Flow. So we use A histogram binning scheme along with K-Means algorithm for features representation is proposed. KNN and SVM for classification. The experimental results show that K-Means, KNN and SVM is the best performing algorithm with an obtained accuracy of 97.608 % for extraction of features and in detection of diabetic retinopathy which makes the diagnosis and screening of retinal images.

MODERN CULTIVATING METHOD AND MONITORING USING IOT WITH CLOUD

International Journal of Pure and Applied Mathematics, (Scopus Indexed)

N. SENTHAMILARASI

ABSTRACT:

Most of the population (70%) in India depends on agriculture which affects the growth of the nation. In order to solve this problem there is only one solution that is smart agriculture by adding new technological methods instead of present traditional agriculture methods. The major challenges in traditional agriculture

such as proper monitoring of the soil health and the environment, with adjusting the irrigation as well as the plant clear. Traditional system results in either excessive use of pesticides or under use of water which produces less efficient and less productive crops. The proposed work is about having control over the irrigation and monitoring the agricultural field using IoT. The system connects physical sensing devices with the cloud and connects the irrigation control mechanism with the cloud. From the cloud with the help of Wi-Fi the collected and analyzed data is sent to the owner or the particular user. This makes a huge analysis and problem solving capability to the overall architecture. Results have shown that we can aggravate data in real time with extremely low latency and based on that we can take the decisions.

DETECTION OF SEA SHIPS AND VIDEO LOG SURVEILLANCE USING NEURAL NETWORKS

International Journal of Research in Engineering, Science and Management

P.SHEELA RANI

ABSTRACT:

In both military and civilian fields, detection of inshore and offshore ships plays an essential role in large variety of applications. So far, ship detection has been dependent on supervisors who track and monitor the detection manually. Ship detection plays a strong supervisory role in monitoring and managing marine traffics, transportation, fisheries dumping of pollutants and illegal smuggling. The collections of images were aggregated to constitute a dataset. Every image of the

ship has been annotated with the corresponding ship type label for instance cargo ship, passenger ship, war ship, etc. The sea ship images dataset are trained and used to detect the presence of the ships in a given video frame. The system is equipped with the special feature of notifying the naval authorities when it detects the presence of a war ship. The primary intent of the system is to maintain a video log for quicker access to the surveillance videos. Adopting this video log surveillance, we can track and monitor a distinct ship with facile and with no manual effort.

DETECTING DYSPRAXIA THROUGH AN AUGMENTED REALITY SERIOUS GAME (ATHYNOS)

International Journal of Innovative Research in Computer and Communication Engineering

M.RAJESWARI

ABSTRACT:

Emerging technologies and ICT have changed the lifestyle of society, all scientific areas are taking advantage of technology to get a real development. Dyspraxia disorders in children presents a comparative study between two therapies, one using a manual puzzle and other using ATHYNOS, an Augmented. Augmented Reality Serious Game (ATHYNOS) developed to help children with the Dyspraxia to improve their motor skills and hand-eye coordination. The analysis of data results showed that exist a significant difference between both methods, proving that children playing with ATHYNOS got less time in the activity execution and also better performance.

SMART AMBULANCE RESCUE SYSTEM WITH PATIENT HEALTH MONITORING USING IOT

International Journal of Advanced Research in Science, Engineering and Technology

S. IRIN SHERLY

ABSTRACT:

With the increasing traffic on the road, ambulance have a tough task in taking the patient to hospital on time this leads to patient loss due to the heavy blood loss declining heart beat rate etc, which leads to the cause of death also the fact is that Thousands of people are dying because ambulances take too long to response to a emergency situation. We address this issue by proposing a solution using the Internet of Things which is an evolving technology. Here, we are connecting the ambulance with the IOT which has biomedical sensors like heartbeat rate sensors, temperature sensors, ECG sensors that will sense and detect the injured person's heath conditions and update this information to the nearby hospital server. And also there is a finger print scanner that takes the finger print of the injured person and sends to the hospital server and the server will search for the injured person's fingerprint in the cloud and fetch the personal details of the person then automatically registers the patient's admission form.

HIDING AUDIO FILE IN VIDEO FRAMES USING WAVELET TECHNIQUE

International Journal of Engineering & Technology (Scopus Indexed)

R. VINSTON RAJA, N. SENTHAMILARASI, S. SUMA CHRISTAL MARY, J.S. UMASHANKAR

ABSTRACT:

Steganography derives covering private or enigma sound inside a transporter in impalpable way. In this paper we are wearing out a video steganography calculation in context of Haar Integer Wavelet Transforms (IWT) and extraction in luminance and chrominance (YCbCr) bits of the video records. In this approach, the cover-video is disconnected into YCbCr charts and the sound perfectly healthy is implanted into the IWT coefficients. The presented sound is expelled from stegovideo utilizing the switch method of information disguising. Haar wavelet change is related with get the low rehash sub-band in a photograph to cover information. The rehash sub-packs are (LL, LH, HL and HH).The work of different scientists is talked about video steganography and their strategies for embedding and extraction of information. With the advance of progression and mixed media data, Videos and electronic pictures is expanding rapidly. A tremendous measure of data can be secured in video documents. It contains number of edges played over some dubious time apportioning. Data can be secured in any or number of edges. Also, Attacker or Human eye can't see the closeness of message in video since video plot is unmistakable for a little measure of time.

AUTOMATED BLACKLISTED AND THEFT VEHICLE DETECTION IN SMART CITIES

International Journal of Management, Technology and Engineering

P.SHEELA RANI

ABSTRACT:

In urban surveillance application the image sensor / camera plays an important role in digitizing the scene or environment. It is a huge task to process the digitized image for a smart vehicle license plate as it will need a high CPU and memory power. To achieve this kind of functionality with distributing the processing using the IoT technology is best way to solve. Also by detecting the number plate we can easily identify the vehicle and theft vehicle automatically. Whenever the number plate of the blacklisted vehicle is captured it detects and it provides the necessary details.

CREDIT CARD FRAUD DETECTION SYSTEM USING HIDDEN MARKOV MODEL – BEHAVIOUR BASED APPROACH

International Journal of Advance Research in Engineering, Science & Technology

J. CHENNI KUMARAN

ABSTRACT:

The utilization of credit cards is predominant in modern society. In any case, clearly the quantity of charge card extortion cases is continually expanding regardless of the chip cards overall reconciliation and existing security

frameworks. This is the reason the issue of misrepresentation discovery is imperative at this point. The Master card misrepresentation identification highlights utilizes client conduct and area filtering to check for abnormal examples. These examples incorporate client attributes, for example, client spending designs just as common client geographic areas to confirm his character. In the event that any irregular example is identified, the framework requires revivification. In this undertaking, a procedure for 'Charge card Fraud Detection' is created. As fraudsters are expanding step by step. What's more, fraudulent exchanges are finished by the Visa and there are different kinds of misrepresentation. So to tackle this issue blend of strategy is utilized like Genetic Algorithm, Behavior Based Technique and SET (Secure Electronic Transaction), Machine learning, Data Mining. By this exchange is tried exclusively and whatever suits the best is additionally continued. What's more, the principal objective is to recognize misrepresentation by separating the above procedures to show signs of improvement result. In this venture the general portrayal of the created misrepresentation discovery framework and correlations between models based are (design acknowledgment). In the last segment of this paper the aftereffects of evaluative testing and comparing ends are considered. An invalid client (extortion) utilizes a bank exchange, while exchange first bank authorizer checks whether the client is substantial client or an invalid client. On the off chance that the client is invalid, at that point the bank authorizer obstructs the exchange.

DETECTING MECHANISM FOR SYBIL ATTACK IN WIRELESS SENSOR NETWORK

International Journal A for Research in Applied Science & Engineering Technology

M.RAJESWARI

ABSTRACT:

Security has become a most important issue for several significant applications provided by wireless sensor networks (WSNs). The intrinsically susceptible features of WSNs employ them susceptible to a diversity of attacks. This paper has centered on how to protect from a principally destructive type of attack called Sybil attack. A Sybil node using only one physical device may produce an random number of extra node identities and can be used to interrupt standard performance of the WSNs, like multi-hop routing which is utilized to discover numerous disjoint paths among source and destination. Recently, there has been a increasing attention in leveraging WSNs to mitigate Sybil attacks. Digital certificates are a way used to show individuality, however, it is not feasible in sensor networks. This paper has proposed a Trust Based Sybil Detection (TBSD) technique to detect Sybil nodes in WSNs. The TBSD scheme is based on manipulative trust values of adjacent sensor nodes and the nodes with the trust values less than a threshold value are detected as Sybil node [4]. The feasibility of TBSD method is demonstrated systematically, while experimental results of TBSD in exposing Sybil attacks is expansively assessed equally mathematically and numerically. The acquire consequence show that the TBSD attains significant attack detection rate than existing techniques.

OBSTACLE DETECTION AND EMERGENCY NOTIFICATION FOR VISUALLY IMPAIRED PEOPLE USING SMARTPHONE

International Journal of Management, Technology & Engineering

S. IRIN SHERLY

ABSTRACT:

Communication plays a major part in day to day life. But it is very difficult for the normal people to communicate with blind people. This project is to develop real time communication with audio for visually impaired people through a mobile application. This application contains speech recognition for every corresponding image captured for visually impaired people. The application which can-do real-time as object detection will be very useful and efficient, also easy to carry. Home automation can be used to switch on/off the fan. If the person lost his/her way, immediately their exact location will be sent to reputed person. For visually impaired people trained data sets will be stored in a database which is used to retrieve when an object is detected using a camera.

MALICIOUS URL DETECTION USING MACHINE LEARNING TECHNIQUES

International Journal of Innovative Research in Science, Engineering and Technology

R.JEENA

ABSTRACT:

In this paper, we discuss the importance of integrating Machine learning techniques in the process of detecting malicious URL. With the rise of smart phone

usage, many transactions are conducted online. Even sensitive transactions are going online. A static approach to security is always a threat. By introducing a dynamic approach, we can greatly reduce the phishing attacks. We have used supervised learning algorithms like SVM which gives an accuracy of 0.81 and F1 score of 0.74. These algorithms dynamically adds malicious URL once detected. This prevents attacks caused by carelessness of end users. KEYWORDS: SVM (support vector machine), URL(uniform Resource Locator), Blacklisting, F1 score

SCHEDULING MANAGEMENT FOR STAFF ACADEMIC DUTIES

International Journal of Advance Research in Engineering, Science & Technology

J. CHENNI KUMARAN

ABSTRACT:

Scheduling Management for staff scholastic obligations is created for the school to rearrange examination corridor assignment, seating course of action and staff obligations. It encourages getting to the examination data of a specific understudy in a specific class. The motivation behind creating test corridor seating game plan framework is to electronic the conventional method for directing tests. Another reason for building up this product is to create the seating plan report naturally amid tests. For the most part understudies are confronting numerous issues for finding the test corridor, so a recently concocted idea encourages for the staffs to produce their test lobby course of action effectively. This undertaking likewise assign specific invigilator for specific corridor. For the most part understudies are confronting numerous issue for finding the test corridor and their seats individually. A recently concocted idea can help for the staffs and lessen the

manual work associated with seating distribution and staff obligations. This encourages them to distinguish the floor or get bearings to their individual lobbies without postponements. The Students subtleties have data pretty much every one of the understudies who go to the examination.

SMART METER USING IOT

International Journal of Advance Research in Engineering, Science & Technology

J. CHENNI KUMARAN

ABSTRACT:

The Digital India program is a flagship program of the Government of India with a vision to transform India into a digitally empowered society and knowledge economy. So for supporting it, our part of contribution by this project which make the energy meter reading digitally going to update in IOT server via microcontroller in absence of unit reading staff infield and for safety purpose we initiate two detectors (fire sensor & gas sensor).Normally after 60 days the electricity board concerned officer will mark and tell the energy meter unit reading of particular house and this process is quite lengthy so to overcome from it our system is beneficial for both electricity department and the house owner. After 30 days itself a LCD via IOT module with the information of units and the bill amount will send to the house owner mobile number and even in the 60th day the unit reading for particular meter will get updated in the IOT server. This project is easy and comfort for public to maintain the budget EB and efficient too. Now, we use those two sensors to shut down electricity in case of any emergency like bursting of gas cylinders & fire accidents.

STAFF ARTICLES

POEM ABOUT PEACE : PATH OF PEACE

Peace is an easy path to tread.

Peace is where our fears are mislaid.

Peace is beginning to restore.

Peace for each man, woman and child.

Peace for the troubled streets gone wild.

Peace is for the old and the young.

Peace in the end will overcome.

Peace builds trust into a lifestyle.

Peace is a friendly open hand.

Peace is a place to understand.

Peace in the end will overcome.

Peace is for the old and the young.

Peace is a legacy to leave.

Peace is when we don't have to grieve.

Peace is and end to all the hate.

Peace is why we negotiate.

Peace for all the victims of war.

N.SENTHAMILARASI

ASSISTANT PROFESSOR

DEPT OF IT

WE HAVE RULES

We Have Rules
We Have Rules
Rules to keep us safe in college
Inside voices, walking feet
Don't touch or bother
The friends we meet
Follow directions, listen too
Rules will make you cool in college

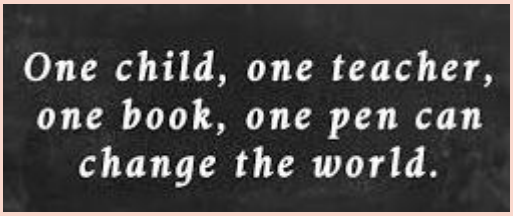
N.SENTHAMILARASI

ASSISTANT PROFESSOR

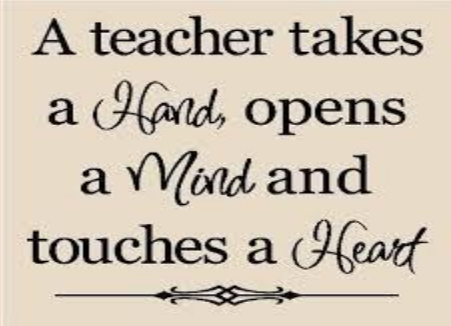
DEPT OF IT

TEACHER

From the first day of nursery
to the last day of college
teachers guided your path
& filled mind with knowledge.
A teacher gives you
idea about right & wrong
she notices your weakness
& then makes you strong.
A teacher tells you
what is good & bad
& teaches you to handle yourself



whenever you are sad.
She enters in the class
and teaches everyone equally
but who has more faith in her
learns the subject more easily.
When depression made me realize
that life has become inconsequential
then the magical words of teachers
just showed me, my true potential.



S.IRIN SHERLY

ASSISTANT PROFESSOR

DEPT OF IT

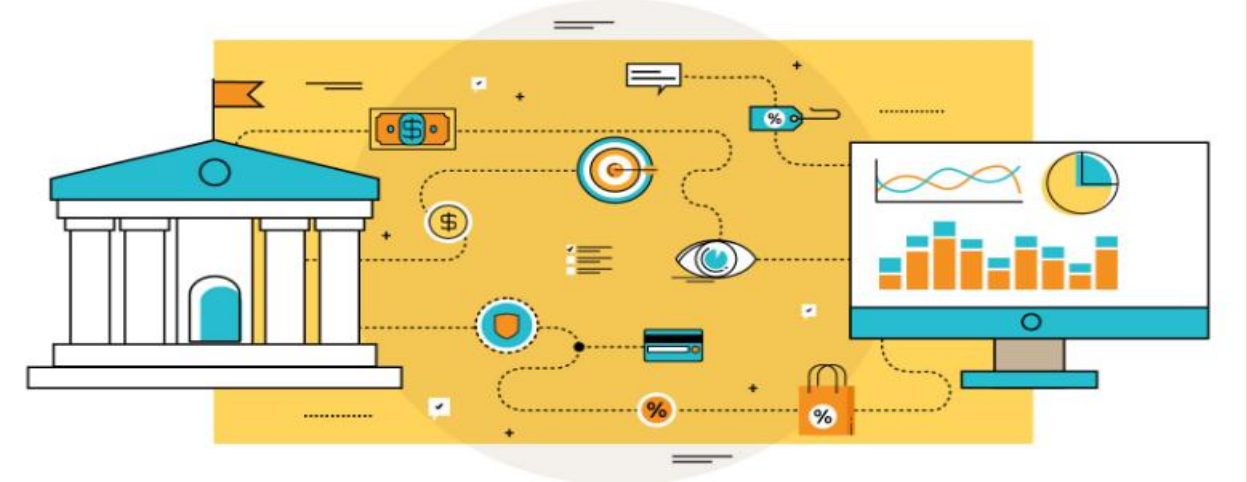
MODERN TRENDS OF TECHNOLOGY

1.ARTIFICIAL INTELLIGENCE WILL RESHAPE THE BUSINESS STRATEGIES

AI brings enormous changes to business operations, reshaping entire industries with the power of advanced technologies and software. Some companies now acknowledge the value of implementing the AI strategies for their business, and a major leap towards AI is on the way. Large companies with over 100,000 employees are more likely to implement the AI strategies, but for them, this process can be especially challenging. 2018 will be the year when the leading firms will incorporate AI applications into their strategic and organizational

development. Additionally, there is a potential for algorithms marketplaces, where the best solutions created by engineers or companies can be shared, bought, and deployed for organizations' individual use.

The constant development of machine learning and AI technologies will make every business become data-driven, and every industry smarter. After years of background work on prototypes and ideas, the new solutions will be breathtaking.



2. BLOCKCHAIN WILL REVEAL NEW OPPORTUNITIES IN DIFFERENT INDUSTRIES

Everyone is now talking about block chain, a revolutionary decentralized technology that stores and exchanges data for crypto currencies. It forms a distributed database with a digital register of the transactions and contracts. Block chain stores an ever-growing list of ordered records called blocks, each containing a timestamp and a link to the previous block. Block chain has impressive prospects in the field of digital transactions which will open new business opportunities in 2018.

Due to the growing role of social responsibility and security on the internet, the

block chain technologies are becoming increasingly relevant. In a system using block chain, it is nearly impossible to forge any digital transactions, so the credibility of such systems will surely strengthen. This approach can become fundamental for disruptive digital business in enterprises and startups.

3. THE INTERNET OF THINGS WILL BECOME INTELLIGENT

The intelligent things are everyday devices capable of smarter interactions with people and the environment. These things operate either semi-autonomously or autonomously in uncontrolled real-world conditions without the need for human intervention.

Intelligent things have been in a spotlight for several years, and with a continuous expansion and enhancement in 2018 they will influence another global trend the Internet of Things.

4. DEEP LEARNING WILL BE FASTER AND DATA COLLECTION BETTER

Nowadays, deep learning faces certain challenges associated with the data collection and the complexity of the computations. Innovations in hardware are now being developed to speed up the deep learning experiments, e.g. the new GPUs with a greater number of cores and a different form of architecture.

This will improve the functional characteristics, increase productivity, and reduce product costs.

5. NO MORE SPECIFIC COMMANDS: GROWING OF NLP

Use of chatbots in customer service became one of the leading trends of the outgoing year. In 2018 applications will require the ability to recognize the little nuances of our speech. The users want to get a response from their software by

asking questions and giving commands in their natural language without thinking about the “right” way to ask. The development of NLP and its integration into computer programs will be one of the most exciting challenges of the 2018 year. We have high expectations about this.

S.IRIN SHERLY

ASSISTANT PROFESSOR

DEPT OF IT

STUDENT ACHIEVEMENTS

- ✓ Batch 2014-2017 , our student **Ms.Varshitha** secures a (CGPA-9.03) received "Gold Medal" for securing First Rank in Anna University Examination conducted all over Tamil Nadu among 595 affiliated colleges.

2.6.2018 • சென்னை 17

பூந்தமல்லி பனிமலர் பொறியியல் கல்லூரி

மாணவிகள் ரேங்க் பட்டியலில்

மாநில அளவில் 2ம் இடம்

பூந்தமல்லி பனிமலர் பொறியியல் மற்றும் தொழில் நுட்ப கல்லூரியில் இன்பர்மேஷன் டெக்னாலஜி பாடப்பி ரிவில் மாநில அளவில் முதலிடம் பிடித்து தங்கபதக்கம் வென்ற மாணவி எஸ்.வர்ஷிதாவுக்கு தாளாளர் மற்றும் செயலாளர் சின்னதுரை சால்வை அணிவித்து பாராட் டினார். அருகில் கல்லூரி முதல்வர் ஜெயந்தி, ஐ.டி. துறைத்தலைவர் ஜோஷி.

- ✓ E.Praisey, III year participated in the Non-Technical Event and won the "I Prize" in National Level Technical Symposium held at Vellamal Engineering College on 15.02.2019.

- ✓ S.Shruthi, S.Swetha Lakshmi and S.B.Sushma, of III year presented the paper "Child Safety Monitoring" in National Level Technical Symposium

and won the “I Prize” held at Chennai Institute of Technology on 21.02.2019.

- ✓ Our Third Year and Second year students participated in SMART INDIA HACKATHONE 2019 – MINISTRY OF POWER at JECRC University, Rajasthan on 02.03.2019 & 03.03.2019

- ✓ III Year students of our department attended the conference on BLOCKCHAIN AND IOT on 12.07.2018 various company start up CEO handled the session and several company signed the MoU and they are going to set a INGUBATION in our college.

PLACEMENT TRAINING CLASS FOR FINAL YEAR

Department of IT&CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Technical placement training program from 02.07.2018 to 30.07.2018.Technical Training Program(C, C++, DBMS, Data structure) was handled by the faculties of Department of Information Technology hence this session will be helpful for their placement to the students at Panimalar Institute of Technology.

Final year students of our department attended the **"Technical & Aptitude Training Resources**" Conducted by the Industry experts from **Benchmark**, organized by Placement cell at Panimalar Institute of Technology ,from **23.07.2018 to 15.08.2018.**

PLACEMENT AWARENESS PROGRAM:

Department of IT & CSE in collaboration with IEEE & Computer Society of India organized a placement awareness program for III Year students conducted by Mr.Balamurugan Chief Technical Officer at Panimalar Institute Of Technology**,** on 04.07.2018.

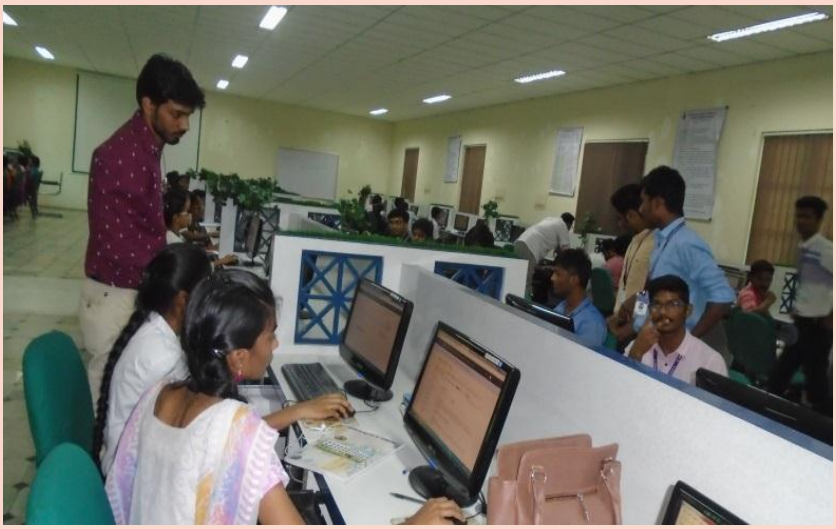
DEPARTMENT EVENTS & ACTIVITIES

WORKSHOP

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Two days' workshop on Robotics for II,III and IV year students from 27.07.2018 to 28.07.2018 by Industry Experts Mr.Karthy R ,Engineer at Skyfi Labs.

WORKSHOP ON C PROGRAMMING

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a workshop on C Programming for First year students on 22.03.2018 by Industry Experts Mr.D.Arun Prakash Founder & CEO GUVI Geek Network Private Ltd The course is crafted to help the participants in identifying the best solution for a given problem. Dr.R.Josphineleela coordinated the event. About 60 students participated in the hands on training.



Workshop -IoT

Department of IT in collaboration with IEEE, IEEE CS ,IEEE ITS & Computer Society of India organized a workshop on IoT for First Year ,Second Year and Third Year students around 57 students attended the workshop on 21.03.2018 by Muhammed Ilyas Founder & CEO of DIYALAB. He delivered a emerging topic of technical, social, and economic significance on IoT.

Industry Experts and Students Interaction on Robotics

Department of IT in collaboration with IEEE, IEEE CS , ITS & Computer Society

of India organized Industry Expert and students Interaction on Robotics for Third Year and Second Year on 22.03.2018,Experts from Prag Robotics Private Limited, delivered the talk.

Workshop on .Net

Department of IT&CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a workshop on **.Net** Third year students on 22.03.2018 by Industry Experts Mr.Kannan from Infosys. This course will cover the practical aspects of multi-tier application development using the .NET framework. Mr.Krishnaraj coordinated the event. About 20 students participated in the hands on training.

GUEST LECTURE:

GUEST LECTURE HIGHER STUDIES

Department of IT & CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Guest Lecturer for III Year on "Higher Studies" conducted by Experts from T.I.M.E Education Chennai Private Ltd, at Panimalar Institute of Technology, on 10.07.2018 .

GUEST LECTURE ENTREPRENEUR DEVELOPMENT CELL

III Year students of our department attended the Guest Lecture on Entrepreneur Development Cell, the session was handled by Mr.Tony, CEO of Infoziant organized by Placement Cell on 31.07.2018 at Panimalar Institute of Technology.

GUEST LECTURE – PLACEMENT MOTIVATIONAL TALK

Final year students of our department attended the **Guest Lecture on Motivational Talk-Placement** Conducted by the Industry experts Mr.Joel Project Manager from Infosys, organized by Department Of Information Technology at Panimalar Institute of Technology on 02.08.2018.

GUEST LECTURE-MOTIVATIONAL TALK

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Guest Lecturer on "Motivational Talk" second year and Third Year students on 01.03.18 by "Mr.SVK.Vasan",from CEO, Abirami Groups

Dr.A.Joshi ,HOD/IT coordinated the event. About 220 students participated and got benefited.

GUEST LECTURE ORACLE

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Guest Lecturer on **"Oracle"** for Third year students on 12.03.2018 by Mr. Abdul NaafiUnn, Infosys, Chennai. The session aimed to introducing the latest Knowledge of Oracle database technology with working industry environment and their importance in the student's professional growth in the IT industry Dr.A.Joshi ,HOD/IT coordinated the event. About 122 students participated and benefited

GUEST LECTURE WEB ESSENTIALS

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Guest Lecturer on **Web essentials** for First year students on 21.03.2018 by Mr. M. Arun Prakash, Founder & CEO Guvi Geek Network Pvt Ltd.,Chennai He delivered a talk on extends Visual Studio with a lot of new features Dr.R.Josphineleela coordinated the event. About 122 students participated and got benefited.

GUEST LECTURE-MOTIVATIONAL TALK

Department of CSE&IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Guest Lecturer on "Cyber Security" for second year on 02.04.18by"Mr.Srinivasa Lakshmanan",Lead Manager from Infosys. Around 120 students participated and benefited.

TECHNICAL TRAINING PROGRAM

- ✓ II Year, III Year and IV Year of our department attended the Four session Technical Training Program on Java, IoT and Python conducted by Industrial Experts from Infoziant ,organized by the Placement Cell at Panimalar Institute of Technology from 04.08.2018 to 01.09.2018

- ✓ II Year 30 students of our department attended the Technical Training Program on cyber forensics by Industrial Experts from E.Ramesh from CoEDF organized by Department of Information Technology at Panimalar Institute of Technology from 16.11.2018 to 17.11.2018.

FACULTY DEVELOPMENT PROGRAM

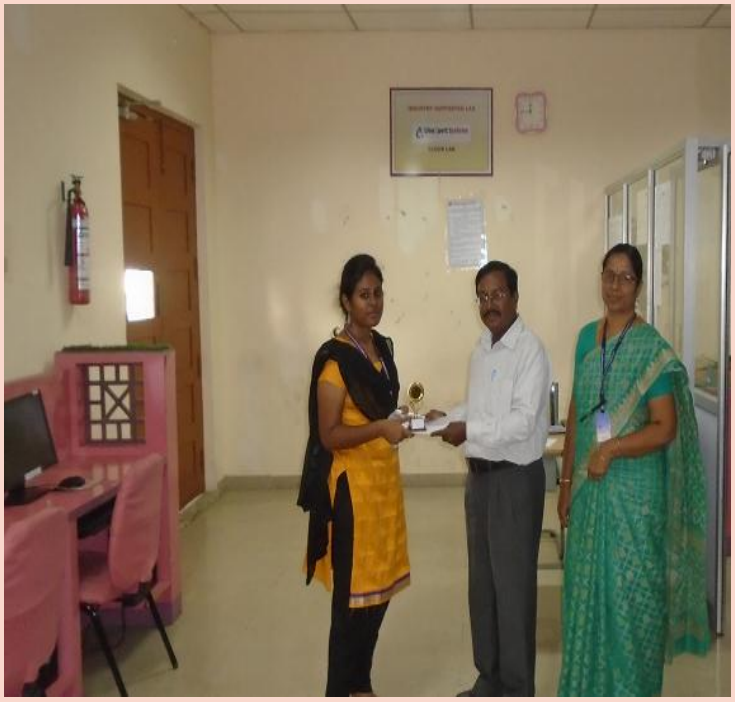
Department of Information Technology in association with organized Two Days Faculty Development Program on cyber forensics by Industrial Experts from E.Ramesh from CoEDF organized by Department of Information Technology at Panimalar Institute of Technology from 29.11.2018 to 30.11.2018.

PROJECT EXPO:

Project Expo for Second Year:

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Project Expo for Second Year on 22.03.2018. The 10 best project Batches get the chance to present their projects ideas.

The participants with the best project exhibited were awarded with first, second and third prize.



Technical Quiz Competition

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Grand Master Quiz Competition for First year students on 26.03.2018(Monday) by experts from IIT Madras. This Programme is conducted to motivate the students to improve their subject Knowledge.

Project Expo for Third Year:

Department of IT&CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Project Expo for Third Year on 16.04.2018. The 10 best project Batches get the chance to present their projects ideas. The participants with the best project exhibited were awarded with first, second and third prize.

Project Expo for First Year :

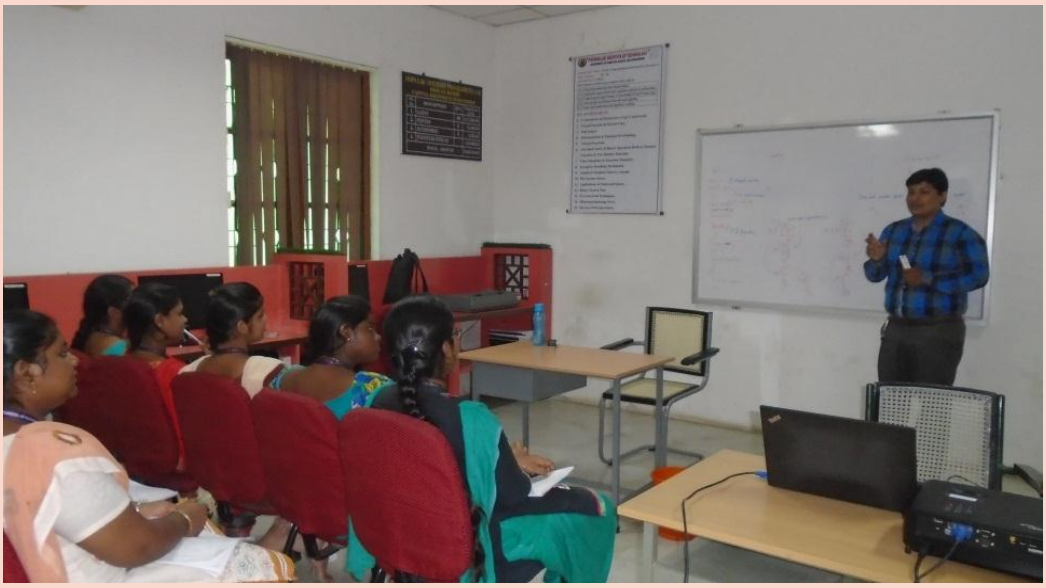
Department of IT&CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a Project Expo for First Year on 16.04.2018. The 10 best project Batches get the chance to present their projects ideas. The participants with the best project exhibited were awarded with first, second and third prize.

Faculty Development Program – Python: Department of IT&CSE in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized Faculty Devlopement and Training Program -**Python** on 21.03.2018 by Mr.Pravin Kumar, from Eye Open Technology, He gave a lecturer on Python Program and its features. About 20 faculty participated and benefited.

CERTIFICATION COURSES

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a certification course on Oracle Certified Java Professional (OCJP) for III Year students .The session was handled by industry experts from Mr.Mari Kannan, Senior Technical Trainer, Eyeopen Technologies from 16.05.18 – 25.05.18.

Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a certification course on Microsoft Certified Professional – MCP for III Year from 21.05.2018 to 28.05.2018 .The session was handled by industry experts Mr.Harinath from Juniper Technologies.



Department of IT in collaboration with IEEE, IEEE CS , IEEE ITS & Computer Society of India organized a one day FDTP on “Machine Learning” for department Faculty members on 28.5.2018 .The session was delivered by the Industry experts Mr.S.Jaya Kumar and Ms.S.Rinku Basnet from Infoziant systems pvt Ltd.

STUDENT JOURNAL PUBLICATIONS

S.NO	AUTHORS	JOURNAL NAME/TITLE	VOLUME/ ISSUE/ YEAR/ PAGE NO.	INDEXED BY	ISSN NUMBER	DOI / IF
1	DENNY PAUL, NIJANTHAN M.S, VGVSS TEJA	International Journal of Innovative Research in Computer and Communication Engineering,"Prevention of Post Harvest Losses"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602049
2	R.SHANTHANA LAKSHMI G.PRIYADARSINI I.DEEBIKA	International Journal of Innovative Research in Science, Engineering and Technology,"Waste Management using Node MCU"	Volume 7, Issue 3,March 2018	Google Scholar	2319-8753	DOI:10.15680/IJIRSET.2018.0703033
3	M.ALAGGUARA VIND, R.SARAVANAN, R.VIGNESH	International Journal of Innovative Research in Computer and Communication Engineering,"Ingenious Design of Bus Tracking and Fuel Monitoring System Including Breath Analyzer"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602047
4	K.HAMSAGEETHA , P.MONISHA, S.YUVARANI	International Journal of Innovative Research in Science, Engineering and Technology,"Body Movement and Heart Beat Monitoring For Coma Patient Using IoT"	Vol. 7, Special Issue 2, March 2018	Google Scholar	2319-8753	DOI:10.15680/ IJIRSET
5	AKILA.S, FRANCISCA LITTLE FLOWER.M,	International Journal of Innovative Research in Computer and Communication	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602018

	HARIBALAMBIKA.R	Engineering,"Explosion Detection and Drainage Monitoring by Automation System"				
6	NANDHINI.P, RAJESWARI.N, RAVEENA.B	International Journal of Innovative Research in Computer and Communication Engineering,"Authorized Public Auditing Scheme for Shared Data with Cloud Users"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602083
7	S.DEEPAK S.JUDE FARINGTON S.JEFFRY SHADRACH	International Journal for Research in Applied Science and Engineering Technology, "Security and Efficiency of Content-Centric Networking"	Volume 6 Issue III	Google Scholar	2321-9653	IF : 6.887
8	S.SHIVANI, J.ANNUSH J.SHARON, S.MRUDHULA	Smart Innovation, Systems and Technologies, "Sensor based Dam Gate Control System and Alert using Zigbee"	Volume 77, 505-512	Springer	2190-3018	https://doi.org/10.1007/978-981-10-5544-7_49
9	VIDHYA LAKSHMI.T, DEEBIKA.S, SUPRIYA .R	International Journal of Innovative Research in Computer and Communication Engineering, "Control of Photograph Sharing On the Web Social Interpersonal Organisation"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602044
10	M.HARIPUSHPAM, B.INFANTINA RINIE, D.JYOTSNA DEVI	International Journal of Innovative Research in Computer and Communication Engineering, "Wildlife Intrusion and Early Fire Detection System Using IoT"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602084
11	V.JOY INFANT POALA P.SHARMILA R.SHRADDHA	International Journal of Innovative Research in Computer and Communication Engineering, "Hybrid Key Aggregation and Trust Based Security System"	Vol.6, Issue 3, March 2018	Google Scholar	2320-9801	DOI:10.15680/IJIRCCE.2018.0603060

12	K.ANUSHREE, N.GAYATHRI, S.SARANYA	International Journal of Pure and Applied Mathematics, "Multi purpose machine learning mobile application using biometrics"	Volume 118 No. 20 2018, 4267-4272	Scopus	1314-3395	
13	ATTUR KEERTHANA, R.MEENAKSHI, K.PRIYA	International Journal of Innovative Research in Computer and Communication Engineering, "Arduino Based Interaction between Blind, Deaf and Dumb People"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602093
14	G.DEEPIKA, HARINI P, KIRTHANA K	International Journal of Innovative Research in Computer and Communication Engineering, "Development of an IOT based Visitor Detection System"	Vol. 6, Issue 2, February 2018	Google Scholar	2320-9801	DOI: 10.15680/IJIRCCE.2018.0602031
15	G.GEETHA LAKSHMI B.SAMBURNA RUBAVATHY G.SHARMILA	International Journal of Innovative Research in Science, Engineering and Technology, "Developing an Assistive Aid for Blind People Using IOT"	Vol. 7, Special Issue 2, March 2018	Google Scholar	2319-8753	DOI:10.15680/ IJIRSET

DEPARTMENT OF INFORMATION TECHNOLOGY

STAFF CONFERENCE PUBLICATIONS

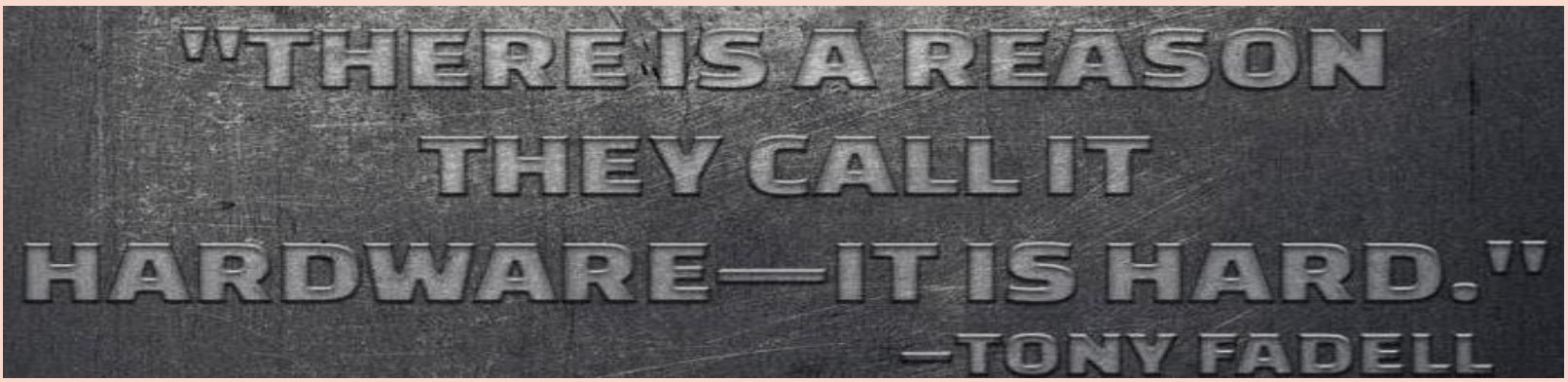
ACADEMIC YEAR 2017 – 2018

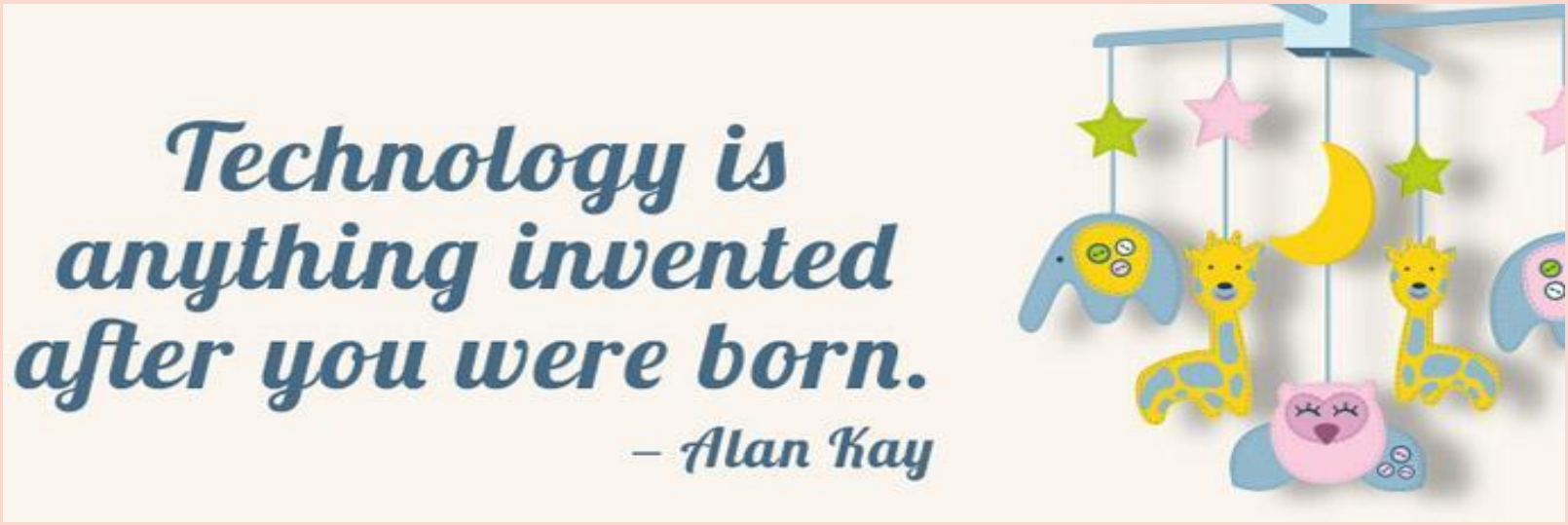
S.NO	STAFF NAME	CONFERENCE NAME	TITLE	COLLEGE NAME	DATE
1	Dr.A.JOSHI	6th International Conference on Contemporary Engineering and Technology	Waste Management	Prince Shri Venkateshwara Padmavathy Engineering College	10/03/2018 & 11/03/2018
2	Dr.A.JOSHI	Third International Conference on Innovative and Emerging Trends in Engineering and Technology	Savior : Blood Donor Management	Panimalar Institute of Technology	09/03/2018 & 10/03/2018
3	Dr.R.JOSPHINE LEELA	7th International Conference on Informatics & Computing in Engineering Systems	Prediction Of Diseases Based On The Environmental Condition	S.A.Engineering College	21/03/2018 & 22/03/2018
4	Dr.R.JOSPHINE LEELA	National conference on Emerging Trends in Data Science and Technology	Body Movement And Heart Beat Monitoring For Coma Patient Using IoT	Velammal Institute of Technology	21/03/2018 & 22/03/2018
	Dr.R.JOSPHINE LEELA	Third International Conference on Innovative and Emerging Trends in Engineering and Technology	Artificial Intelligence In Surveillance Camera	Panimalar Institute of Technology	09/03/2018 & 10/03/2018
6	Dr.R.JOSPHINE LEELA	Third International Conference on Innovative and Emerging Trends in Engineering and Technology	Vehicle And Licence Management System	Panimalar Institute of Technology	09/03/2018 & 10/03/2018
7	Mrs.G.DHANA LAKSHMI	National Conference on Futuristic Innovation in	Drainage Monitoring System Using IoT	Abdur Rahman Cresent Insitute of Science and Technology	24/03/2018

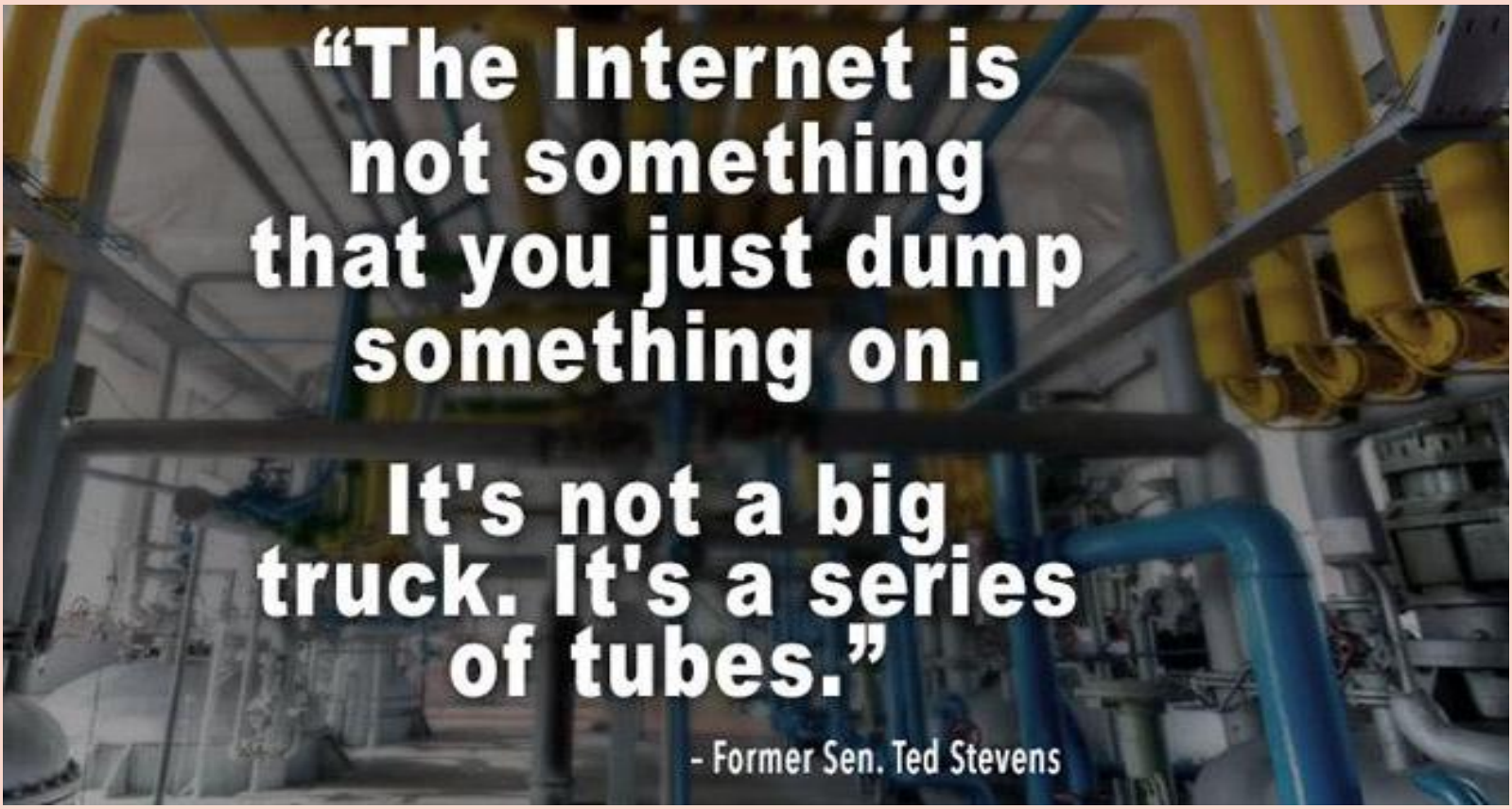
		Robotics, Control Engineering & Automation			
8	Mrs .R.DHARANI	6th International Conference on Contemporary Engineering and Technology	Highly Sensitive Pin Accessibility For ATM Using Human Body Communication	RMK College of Engineering and Technology	26/02/2018
9	Mrs .S.IRIN SHERLY	6th International Conference on Contemporary Engineering and Technology	Wild Life Intrusion Detection	Prince Shri Venkateshwara Padmavathy Engineering College	10/03/2018 & 11/03/2018
10	Mrs .S.IRIN SHERLY	3rd International Conference on Innovative and Emerging Trends in Engineering and Technology	Vehicle into Vehicle Communication: Accident Avoidance and Driver Monitoring	Panimalar Institute of Technology	09/03/2018 & 10/03/2018
11	Mrs .S.IRIN SHERLY	International Conference on Automation and Computing Technologies	Android Mobile Application for Disease Diagnosis System	Velammal Institute of Technology	17/03/2018
12	Dr.S.SUMA CHRISTAL MARY	6th National Conference on Computer Science and Applications	To Generate The Group Based Re-Key Management used For Improve the Secure Communication	Mepco Schlenk Engineering College	02/03/2018 & 03/03/2018
13	Dr.S.SUMA CHRISTAL MARY	2nd National Conference on Data Science and Intelligent Information Technology	Hybrid Key Aggregation and Trust Based Security System	Rajalakshmi Institute of Technology	06/04/2018 & 07/04/2018
14	Mrs .P.SHEELA RANI	National Conference on Emerging Technologies for Sustainable Engineering & Management	Network Based Rescue System for Disaster Management	Sri Muthukumaran Institute of Technology	6/4/2018
15	Mrs .P.SHEELA RANI	8th International Conference on Science and Innovative Engineering 2018	Mobile Application for Prakriti Analysis based on Image Processing Technology	Jawahar Engineering College	1/4/2018

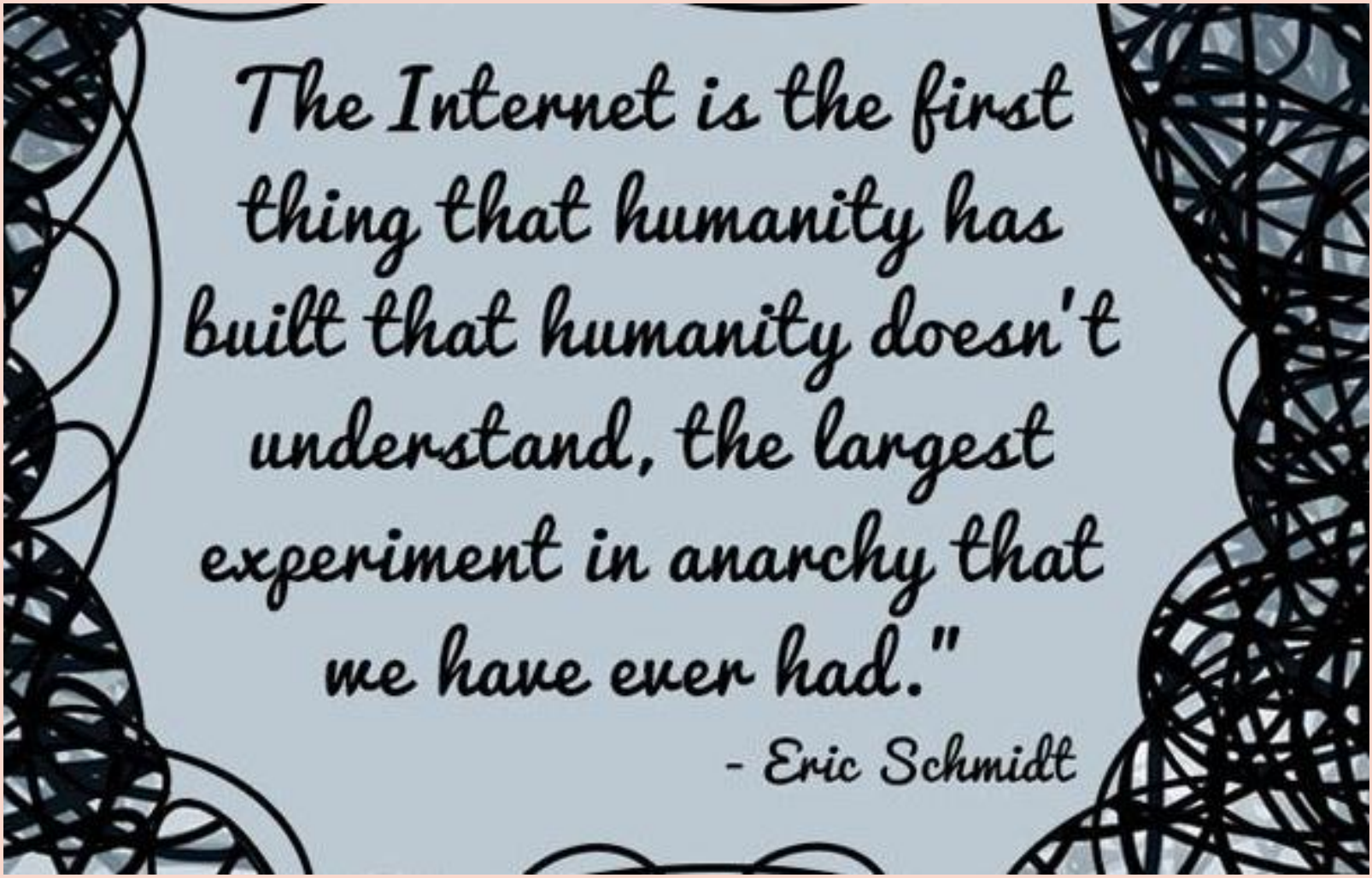
16	Mrs .P.SHEELA RANI	8th International Conference on Science and Innovative Engineering 2018	Multi Camera Multi Target Visual Tracking System	Jawahar Engineering College	1/4/2018
17	Mrs .P.SHEELA RANI	8th International Conference on Science and Innovative Engineering 2018	Multipurpose Machine Learning Mobile App Using Biometrics	Jawahar Engineering College	1/4/2018
18	Mrs .P.SHEELA RANI	3rd International Conference on Innovative and Emerging Trends in Engineering and Technology	Awareness about Vehicle to Vehicle Intersection using Dedicated Short Range Communication	Panimalar Institute of Technology	09/03/2018 & 10/03/2018
19	Mrs .M.RAJESWARI	National conference on Emerging Trends in Data Science and Technology	Developing an Assistive Aid for Blind People Using IoT	Velammal Institute of Technology	14/03/2018
20	Mrs .M.RAJESWARI	International Conference on Innovation in Science and Engineering Research	Developing an Assistive Aid for Blind People Using IoT	New Prince ShriBhavani College of Engineering and Technology	23/03/2018 & 24/03/2018
21	Mrs.MURUGESWARI	7th National Conference	Inspecting Pollution Emit from Vehicle and Controlling Speed on Vehicle (IoT)	Vel Tech	3/3/2018
22	Mrs.N.SENTHAMILARASI	6th International Conference on Contemporary Engineering and Technology	Modern Cultivating Method and Monitoring using Iot with Cloud	Prince Shri Venkateshwara Padmavathy Engineering College	10/03/2018 & 11/03/2018
23	Mrs .R.V.JAYASREE	National Conference on Emerging Trends in Data Science and Technology	Smart Intelligent Street Light To Safeguard Human Using Iot	Velammal Institute of Technology	14/03/2018
24	Mr.D.KAMLAKANNAN	7th International Conference on Informatics & Computing in Engineering Systems	Optimal Data Center Placement And User To Data Center l location In Wireless	S.A. Engineering College	21/03/2018 & 22/03/2018

			Metropolitan Area Networks		
25	Mr.D.KAMLAKANNAN	International Conference for Phonixes on Emerging Current Trends in Engineering and Management	Agent Based Approaches For Intelligent Inter Cloud Resource Allocation	Panimalar Engineering College	09/02/2018 & 10/02/2018






“The Internet is not something that you just dump something on.
It's not a big truck. It's a series of tubes.”
- Former Sen. Ted Stevens


The Internet is the first thing that humanity has built that humanity doesn't understand, the largest experiment in anarchy that we have ever had."
- Eric Schmidt