



SKCET
Buzz

2nd - 6th January 2023



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**INSTITUTIONAL
EVENTS**

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SKI | FACULTY INTERACTION



“A clear vision backed by definite plans, gives you a tremendous feeling of confidence and personal power!!”

Our **Respected Chairperson Madam** interacted with the faculty members on the keynote “**Working in harmony together to take our Institution to the next best stratum**”. **Dr.K.Sundararaman**, CEO and **Mr.S.Lakshmipathy**, General Manager, SKI were present during the interaction on 02/01/2023.

SKI | FACULTY INTERACTION



Our beloved **Chief Executive Officer Dr.K.Sundararaman** addressed the gathering and ignited the minds of the faculty fraternity on the NEP and outcome based education.





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**HACKATHON
ACCOLADES**



ACHIEVEMENT

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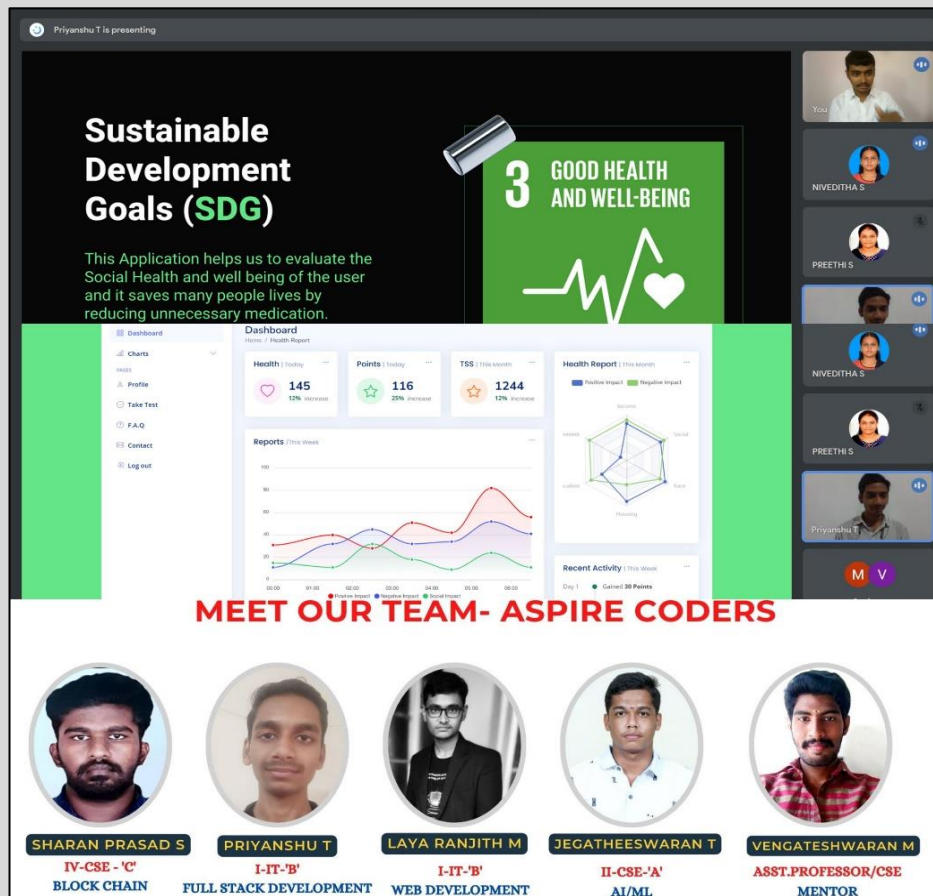


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CSE | SMACK DOWN IDEATHON



Student team from CSE Department has won **Second place** in **Startup Smack down- a Virtual Ideathon** organized by Sri Sai Ram Engineering College, Chennai and has been awarded with a **cash prize of 5k**.

Project Title : Sociopoints

Team Name : Aspire Coders

Team Members:

- Sharan Prasad S - IV CSE C,
- Jegatheeswaran T - II CSE A,
- LayaRanjith M- I IT B,
- Priyanshu T - I IT B

Mentor:

Mr.M.Vengateshwaran, AP/CSE



STUDENT CERTIFICATION



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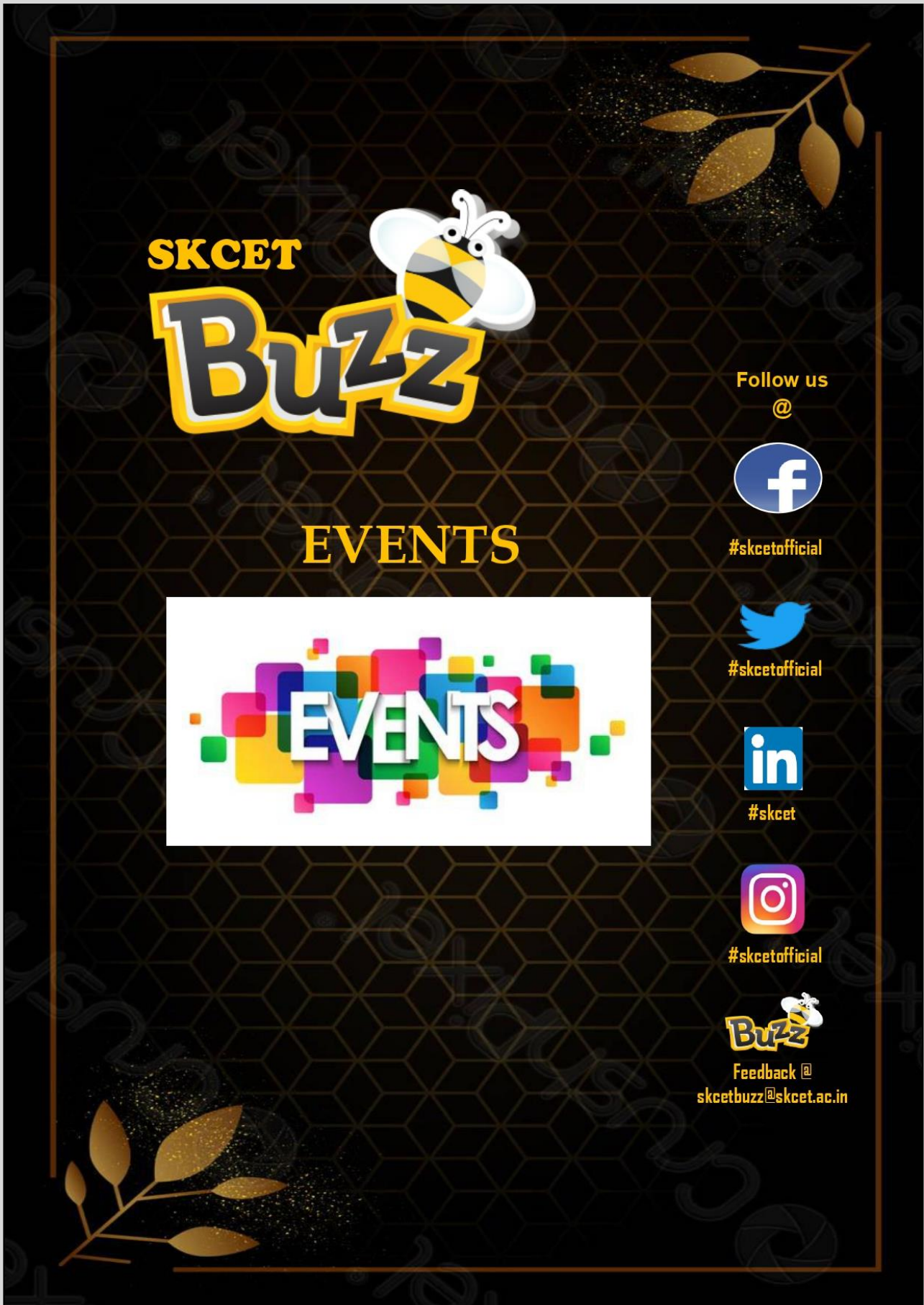


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AI & DS | GREAT LEARNING CERTIFICATION




Mr.S.Hemnath, Mr.S.Pranav Krishna, Mr.P.Barath students of **Second year AI&DS** students has completed the course on My SQL Basics by Great Learning on 28.12.2022.





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EVENTS


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S&H | STUDENT EXTRAMURAL SESSION

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution affiliated to Anna University, Accredited by NBA and AACSB with 'B' Grade
Kuniamuthur, Coimbatore - 641008, Tamilnadu

INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF SCIENCE & HUMANITIES

EXTRAMURAL CLUB STUDENT CHAPTER
organizes

Minute to win
Play to win & enjoy the fun

Convenor: Dr. A. Indhulekha, Professor & Head, Department of S&H, SKCET, CBE.
Coordinators: Dr. A. Mohanraj & Dr. V. Ritu Priyadarshini, Department of S&H, SKCET, CBE.

December 22nd, 2022 @ 3.30pm - 4.30pm
Venue: C3 - 14
Registration link: <https://forms.gle/83XVf4472L3jgQ79>



Extramural Club of SHA organized an event titled, **Minute to Win** for the **First** year students to generate creative thinking and to develop their skills in interpersonal communication and expressing their views in a clear manner.

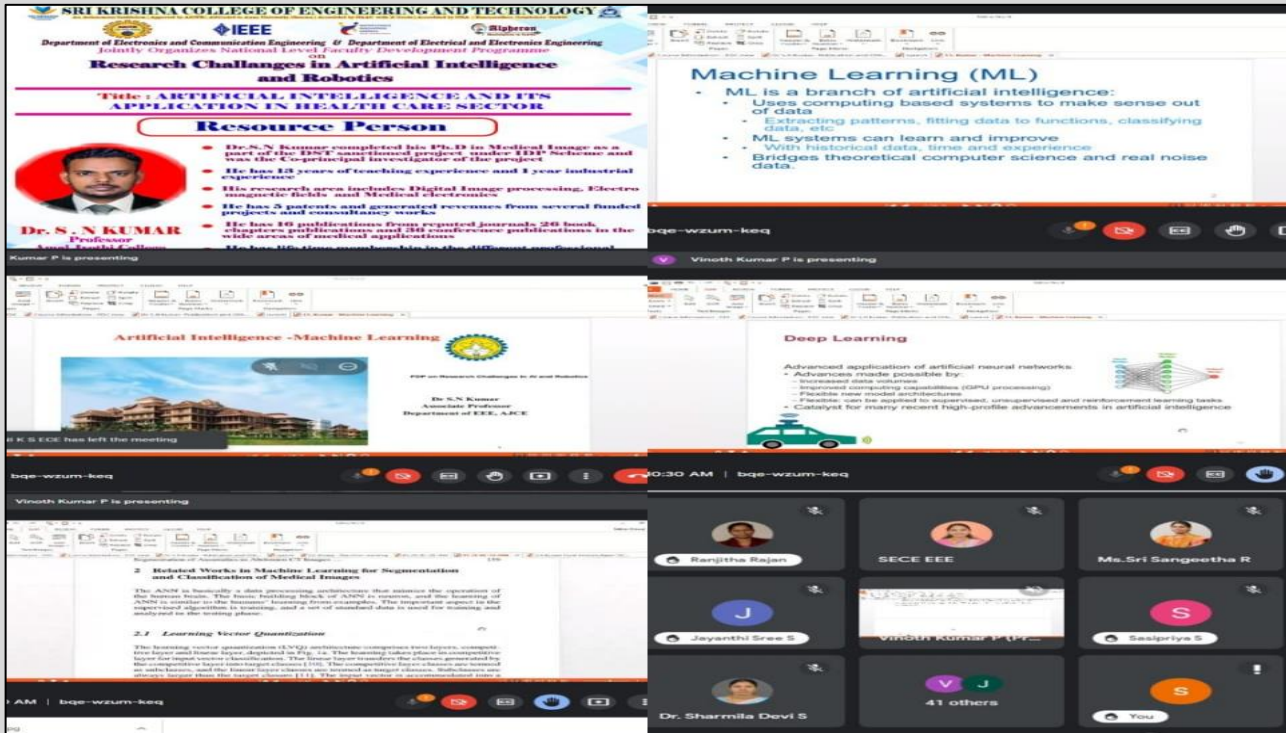
S&H | FACULTY EXTRAMURAL SESSION



Department of Science and Humanities conducted Extramural Session for faculty members to develop and exhibit their potential fully and achieve excellence. **Mr.S.Palani**, Assistant Professor, **S & H** presented a lecture on “Designing Invitation using online tools”

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 1 – SESSION 1



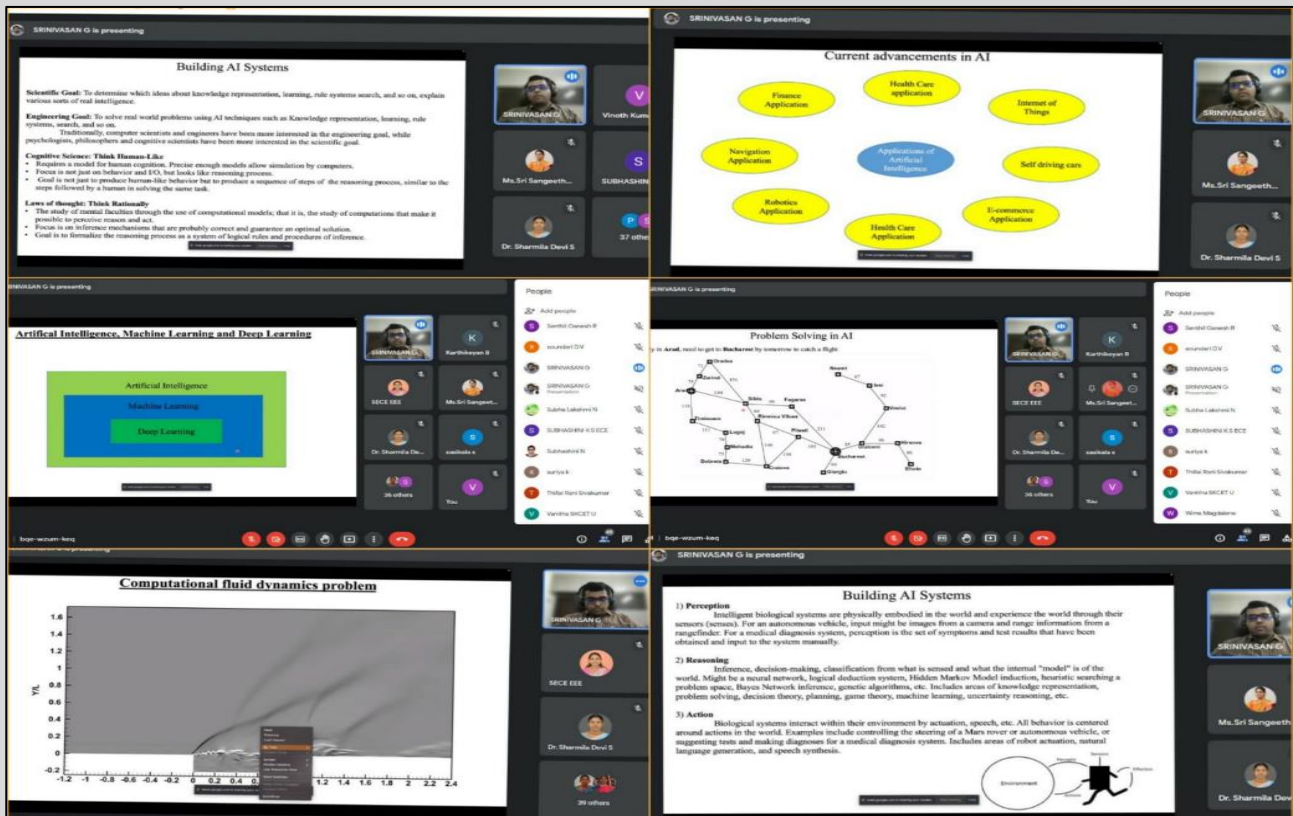
Title: Artificial Intelligence and its Application in Health Care Sector
Resource Person: Dr.S.N.Kumar, Professor, Amal Jyothi College of Engineering, Kottayam.

Session Focus:

- Introduction to Artificial Intelligence
- Machine learning and it's types
- Supervised and Unsupervised learning methods
- Deep learning techniques
- Insight into implementing deep learning techniques in medical image processing
- Insight into publishing deep learning research in journals.

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 1 - SESSION 2



Title: Research Aspects in AI

Resource Person: Dr.G Srinivasan, Software Development Engineer, Centime India Technology, Hyderabad.

Session Focus:

- Evolution and Recent Advancements of Artificial Intelligence,
- Problem solving in AI,
- Computational Fluid Dynamics Problems,
- Traditional OCR and Deep Learning in Invoice Processors,
- Invoice processing through API.

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 2 - SESSION 3

Research Aspects of Deep Networks
Dr. B. Sathya Bama
Professor, Dept. of ECE,
Thiagarajar College of Engineering

Plot of Model Accuracy on Train and Validation Datasets

- > If training is much better than the validation set, you are probably overfitting and you can use techniques like regularization.
- > If training and validation are both low, you are probably underfitting and you can probably increase the capacity of your network and train more or longer.
- > If there is an inflection point when training goes above the validation, you might be able to use early stopping.

Neural Networks

Keras Applications

Keras Applications are deep learning models that are made available alongside pre-trained weights. These models can be used for prediction, feature extraction, and fine-tuning.

Weights are downloaded automatically when instantiating a model. They are stored at `~/.keras/applications`.

Upon instantiation, the models will be built according to the image data format set in your Keras configuration file at `~/.keras/keras.json`. For instance, if you have set `image_data_format='channels_last'`, then any model loaded from this repository will get built according to the TensorFlow data format convention, "Weights-Orders-Depth".

Model	Size (MB)	Top-1 Accuracy	Top-5 Accuracy	Parameters	Depth	Time (ms) per inference step (CPU)	Time (ms) per inference step (GPU)
Inception	86	75.0%	94.5%	22,984	81	100.8	8.1
VGG16	528	71.3%	90.1%	138,494	16	69.5	4.2
VGG19	549	71.3%	90.0%	143,784	19	84.8	4.4
Xception	58	74.0%	92.3%	25,494	107	58.2	4.5
ResNeXt101	98	76.0%	93.0%	25,494	103	43.6	4.4
ResNeXt101	171	76.4%	93.4%	44,794	209	89.4	5.2

Title: Research Aspects of Deep Networks

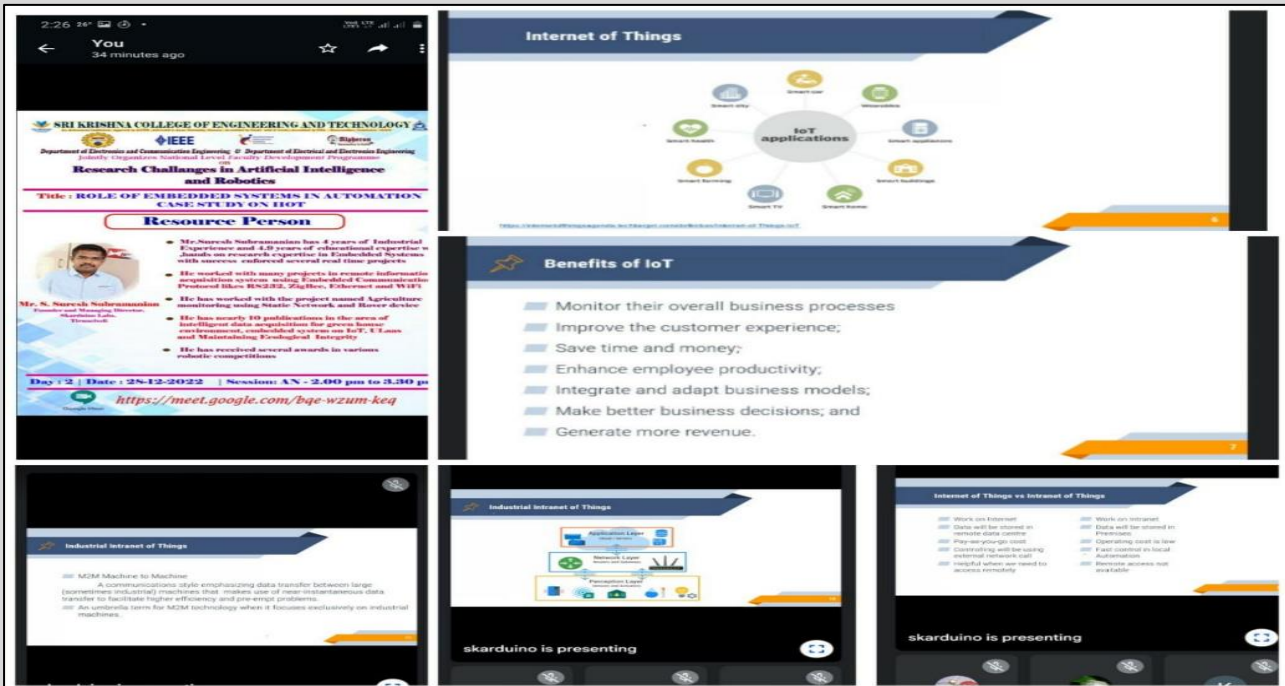
Resource Person: Dr. B. Sathya Bama, Professor, Thiagarajar College of Engineering, Madurai.

Session Focus:

- Introduction to Deep networks.
- Implementing Deep learning in research problem
- Implementation using co-labs
- Improving Deep learning performance.
- Types of Deep networks.

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 2 - SESSION 4



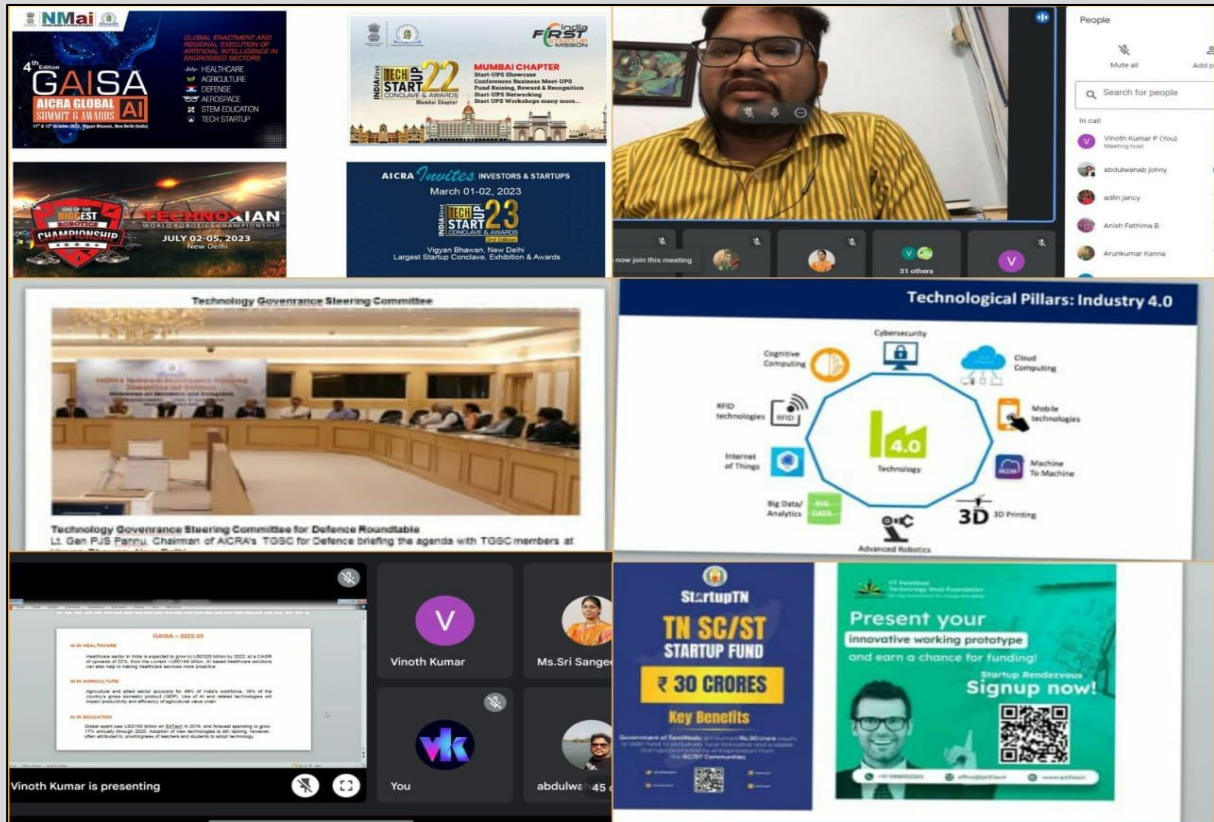
Title: Role of Embedded System in Automation - Case study on IoT
Resource Person: Mr. Suresh Subramanian, Founder and Managing Director, Skarduino Labs, Tirunelveli.

Session Focus:

- Basics of Internet of things on how Data is collected and shared
- IoT applications
- Benefits of IoT
- Employee productivity
- Integrating business models
- IoT Vs Intranet of things
- Industrial intranet of things
- M2M Communication
- Infrastructure design for IIOT.
- Networks.

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 3 - SESSION 5



Title: Research and Funding schemes in AI and Robotic Sector

Resource Person: Dr.M.Abdul Wahab Jony, Research Coordinator, All India Council of Robotic and Automation, Coimbatore.

Session Focus:

- Impact of Advanced Robotics - Intelligent Logistics Solutions,
- Global AI Summit and Awards,
- Technology Governance Steering Committee,
- AI and Deep Learning projects in Healthcare applications,
- Eligible criteria for startups and Membership benefits.

ECE & EEE | FDP ON RESEARCH CHALLENGES IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

DAY 3 - SESSION 6



Title: Research Aspects in Embedded Systems

Resource Person: Mr.S.Santhosh Kumar, Senior Technical Embedded Engineer, Live Wire, Coimbatore.

Session Focus:

- Standalone ES Markets,
- Industry based Embedded Controllers,
- Visualization Tools with Real-time data,
- Improved Security for Embedded devices,
- System on-chip solution,
- Cloud Connectivity and Mesh Networking,
- Deep Learning Applications.



RESEARCH AND DEVELOPMENT



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R&D | BOOK CHAPTER PUBLICATION | ECE

Chapter
Real-time implementation of an implantable antenna using chicken swarm optimization for IoT-based wearable healthcare applications
By M. Bhuvaneshwari, S. Sasipriya, R. Arun Chokravorthy

Book [Internet of Things and Fog Computing-Enabled Solutions for Real-Life Challenges](#)

Edition 1st Edition
First Published 2022
Imprint CRC Press
Pages 22
eBook ISBN 9781003230236

ABSTRACT
In a cognitive wireless powered communication network (CWPCCN), implantable medical devices play an important role in screening patients via wireless communication. The key elements for multiple-input multiple-output (MIMO) framework appropriate for Internet of Things (IoT) applications are reliable in the behavior, consume less power, and less computational complication with reconfigurable models is the major challenge in design. This model enhances remote communications at the frontline of wireless research. Cloud model provides essential environment for software support, sharable network, and much more. Some limitations are present on the geological structure and multi hop-based network. To address these, fog computing is brought to tackle the addressing needs and enhancement of the computing service. The problem during cloud integration with IoT can be handled effectively by fog computing. For data identification and decoding, multiple antenna frameworks rely on details of channel state information at the receiver. As a consequence, an efficient and vigorous evaluation of wireless channels is critical for the consistent recovery of data. As a result, constructing an implantable MIMO antenna for IoT-based wearable healthcare applications is proposed. The main goal is to improve the antenna's capacity parameters using effective chicken swarm optimization technique and deep learning-based convolution neural network approaches for efficient data transmission between the CWPCCN in the healthcare field. A cooperative antenna selection neural network classifier is used to make the classification. The implemented technique's behavior is linked with that of conventional techniques in terms of gain, mutual coupling, specific absorption

Dr.S.Sasipriya, Professor and Head, Department of **ECE** has published a Scopos indexed Book Chapter titled **“Real-time implementation of an implantable antenna using chicken swarm optimization for IoT-based wearable healthcare applications”** in CRC Press, book named **“Internet of Things and Fog Computing-Enabled Solutions for Real-Life Challenges”**, DOI: 10.1202/9781003230236-7

R&D | PAPER PUBLICATION | SOM

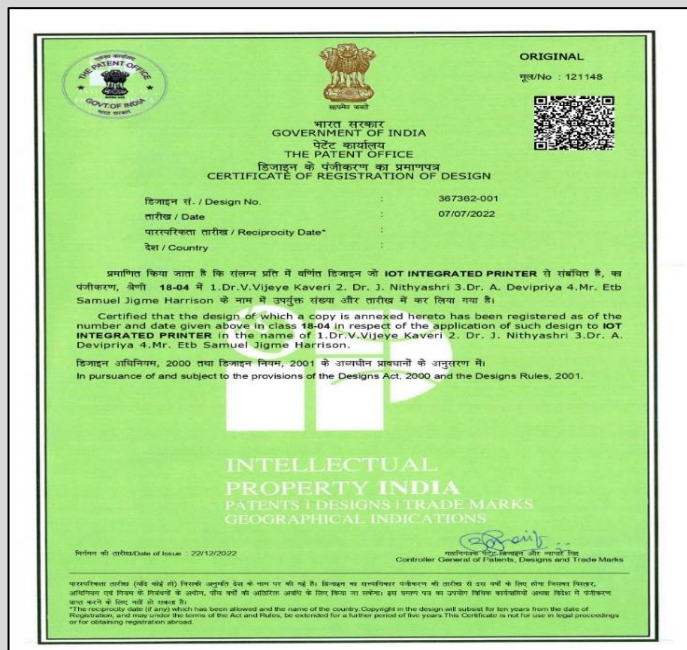
Dr.P.Pon Meenakshi, Professor, **SOM** has published an European Journal of Molecular & Clinical Medicine -Web of Science journal titled **“Time spent on Social Media and its Impact on the Academic Performance by Youngsters”** with the ISSN 2515-8260, Volume 09, Issue 08, 2022.

European Journal of Molecular & Clinical Medicine
ISSN 2515-8260 Volume 09, Issue 08, 2022

Time Spent On Social Media And Its Impact On The Academic Performance By Youngsters
Dr.P.Pon Meenakshi¹, Dr.Suriakala², Ms.Manju M³

ABSTRACT:
Social Media is the simplest terms refer to the internet marketing and digital marketing that promote a product or service. Most social media platforms have built in data analytics tools, which enables companies to track the progress, success and engagement of a advertisement campaigns. Social media marketing including current and potential employees, journalist, bloggers, general public level of a strategic level. Internet marketing offers anybody over a certain age with access to a computer and access to an internet connection, the opportunity to go into business for themselves with little or no start up cost. They could either sell their own products and services in which case they will be doing a business as a merchant. This research revealed that the use of social networking sites in educational institutions and

R&D | PATENT GRANT | CSE



Dr. V. Vijaya Kaveri, Professor, CSE has received the Design Patent Grant with a Certificate of Registration of Design by the Patent Office, Government of India for the patent titled "IOT Integrated Printer", with the design number 367362-001.

R&D | PATENT PUBLICATION | EEE / CSE / MCT

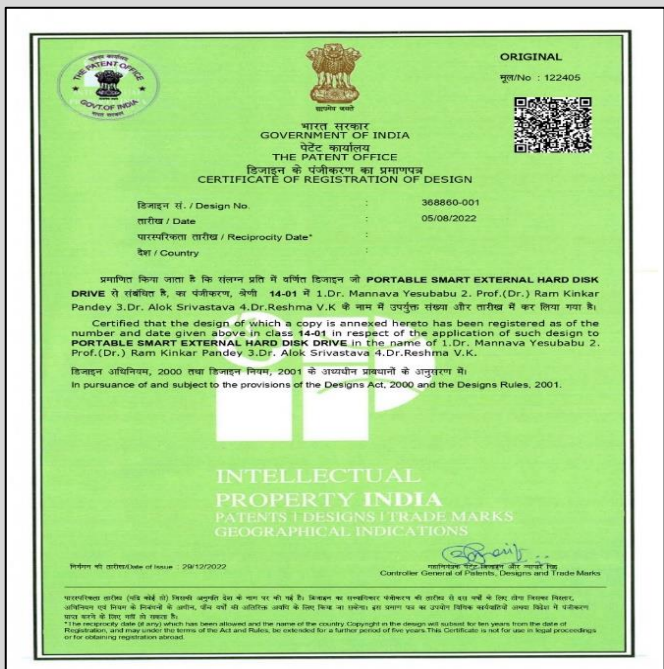
Patent titled 'Agricultural Monitoring Robot' with design number of 366003-001 has received the Design Patent Grant with a Certificate of Registration of Design by the Patent Office, Government of India.

Team Members:

Dr. G. Radhakrishnan, ASP/EEE
Ms. N. Pooranam, AP/CSE
Mr. T. Vignesh, AP/MCT



R&D | PATENT GRANT | CSE



Dr.V.K.Reshma, Assistant Professor, **CSE** has received the Design Patent Grant with a Certificate of Registration of Design by the Patent Office, Government of India. Patent titled **“Portable Smart External Hard Disk Drive”**, with the design number 368860-001.

R&D | PATENT GRANT | MECH



Dr.M.Vigneshkumar, Assistant Professor, Mechanical Engineering along with **Dr.P.Ashoka Varthanan,** Head - Mechanical Engineering has been granted a design patent on 'Twist Lock Assembly' by IPR India.

R&D | ARTICLE PUBLICATION | MECH

Original article

Optimization of biodiesel production process for mixed nonedible oil (processed dairy waste, mahua oil, and castor oil) using response surface methodology

Samraj Balamurugan¹, Durairaj Seenivasan², Ravi Rai³ and Abhishek Agrawal³

Abstract
The fossil fuel-based energy supply represents dominant role in the developing countries like India. The extensive utilization of fuel in the industrial sector and transportation sector brings down the available fuel resources and also ensues environmental and health issues. Biodiesel is one of the major replacements for fossil fuel since it is renewable and green fuel. The current study perceives from futuristic notion and that has resulted in a mixture of nonedible oil feedstock in the use of biodiesel production by mixing castor oil (CO), mahua oil (MO), processed dairy waste (PWD) in equal volume. Five-level three-parameter design of experiment is proposed to optimize transesterification reaction parameters to achieve higher biodiesel yield (fatty acid methyl ester (FAME) conversion). The response surface methodology (RSM) based on central composite design (CCD) was used to predict optimal transesterification reaction parameters such as percentage of catalyst utilization, reaction temperature, and methanol-to-oil molar ratio. Based on the RSM-CCD result, the optimum transesterification reaction parameters of the proposed mixed oil were found to be 2.82 wt% of catalyst utilization, 63.93°C reaction temperature, and 7.86:1 methanol-to-oil molar ratio with maximum yield of 95.9135% and experimentally 94.0%. The fuel properties were measured as per ASTM D6751 standards and results disclosed that the prepared nonedible mixed oil is an effective feedstock for biodiesel production. This research work aimed to dwindle the dependency on crude oil and thereby ameliorating the energy security in a constructive and eco-friendly method. Hence, this work also reports the biodiesel production cost from the proposed novel mixed nonedible oil.

Keywords
Biodiesel, experimental optimization, numerical simulation, mixed oil biodiesel, RSM

Date received: 18 October 2021; accepted: 8 December 2022

Mr.S.Balamurugan, Assistant Professor, MECH has published a scientific article entitled ‘Optimization of biodiesel production process for mixed nonedible oil (processed dairy waste, mahua oil and castor oil) using response surface methodology’ in the Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. It is a SCI, WoS and Scopus Indexed Journal with Impact Factor 1.822.

R&D | PAPER PUBLICATION | CIVIL

Mr.S.Sadheesh, Assistant Professor, Department of Civil, published 2 papers, “Effects of air pollution due to vehicular emission in Coimbatore and reduction strategies” and “Monitoring and analyzing the effect of heavy metals in air based on ecological and health risks in Coimbatore” in the IOP Conference series: Earth and Environmental Science.

Effects of air pollution due to vehicular emission in coimbatore and reduction strategies: A review

S Sadheesh, J Jayanthi, Lakshmi R Mohan, N Reshmi and Y G Sathwath

1 Assistant professor, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.
2 Professor, Department of civil engineering, Government College of Technology, Coimbatore, Tamil Nadu, India.
3 A&S UG students, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.

Abstract: Air pollution is a Worldwide challenge that is a reason for premature death. It affects both developing nations and developed nations. In particular, the air is so much polluted so that cities are fighting to fulfill air quality range and protect humans from harmful substances. One of the greatest global challenges of 20th is the reduction of greenhouse gas emissions. Besides greenhouse gas emissions, air pollution is the major problem in many urban areas this situation is due to the sudden increase in the count of vehicles. According to the studies, Nitrous oxide and particulate matter contribute more to air pollution.

Due to urban transportation improvements, vehicle traffic volume is on the rise over the past few years. Air pollution is majority contributed by vehicular congestion and traffic. This paper analyzes traffic data at Coimbatore. From the review, comparing various locations, two vehicles are that found in count among all vehicles. Air pollution is a crisis that causes damage to the human who are living in areas where air pollution are high in level. The type and amount of air pollutant decides the risk of illness. This indicates that carbon monoxide and particulate matter emitted from a vehicle of two passengers is higher than a single passenger vehicle. Although the concentration of various gases by volume are not always connected to transportation sector, this marker can be used as an indication of increase in residents. It also acts as an indication of how much surrounding areas are being polluted by metropolitan, toxic wastes. This paper examines the vehicular emissions in Coimbatore, India. The study looks at reviewing data from various sensors to formulate solutions for improving air quality in the city.

KEY WORDS: Air Pollution – Transportation – Pollutants – Air quality Index – Vehicular emission

Monitoring and analyzing the effect of heavy metals in air based on ecological and health risks in Coimbatore

S Sadheesh¹, R Satish², Arambathi³, M Athi Rino⁴ and R Sreetha⁵

1 Assistant Professor, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.
2 Assistant Professor, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.
3 A&S UG Students, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.

Abstract: Earlier, there were limited number of small-scale factories and they were operated only for certain hours a day. Presently, the level of air pollution was moderate. But when these factories started their operations, they increased the pollution level to a great extent. The studies say that it was of 10 people in 1000 people who breathe polluted air that causes the WHO data today. Air quality index can convey the people how polluted the air is. Industries are the major source for pollution in a city and hence the study on the pollution level in a city. In the study, the air quality index of Coimbatore city the air pollution has increased (PM2.5, nitrogen dioxide (NO2), particulate matter (PM2.5), sulphur dioxide (SO2), carbon monoxide (CO), carbon monoxide (CO) and benzene (C6H6)) in the study. The air quality index of the study area is higher than the WHO standard. The study also indicates that the air pollution is increasing in the city. The study also indicates that the air pollution is increasing in the city. The study also indicates that the air pollution is increasing in the city.

KEY WORDS: Air pollution – Pollutants – Particulate matter – Heavy metals – Air Quality Index – Promotive coating

R&D | ARTICLE PUBLICATION | MECH



Dr.R.Jeyakumar, Associate Professor, **Mechanical Engineering** has published a scientific article entitled '**Effect of limestone powder as bioceramic reinforcement on mechanical and tribological properties of aluminum matrix composites**' in Materials Today: Proceedings. It is a Scopus Indexed Journal.

R&D | PAPER PUBLICATION | CIVIL

Dr.S.Ramakrishnan, Associate Professor, Department of **Civil Engineering** has published a paper titled "**Investigation on Durability of Study Fibre Reinforced Concrete**" in the OP Conference series: Earth and Environmental Science.

SIC-SISTEEM-2022 IOP Publishing
IOP Conf. Series: Earth and Environmental Science 1125 (2022) 012018 doi:10.1088/1755-1315/1125/1/012018

INVESTIGATION ON DURABILITY OF STUDY FIBER REINFORCED CONCRETE

Ramakrishnan S¹, Dinesh A², Gnanaprabhakaran M¹, Aswin D¹, Gowthambalaji K¹

¹ Department of Civil Engineering, Sri Krishna College of Engineering and Technology
² Department of Civil Engineering, Sri Ramakrishna Engineering College

Abstract. The significance of concrete durability cannot be undervalued. Durability of concrete is simply defined as its capability to resist enduring action and chemical attack, while maintaining the engineering properties for desired life time. The durability of concrete is dynamic with looks to a structure's life span. In this investigation, study on durability of fiber reinforced concrete made with steel and glass fiber has compared for M30 grade of the concrete. The fractions of fiber are 0.5%, 1%, 1.5% and 2% by the volume of concrete. Durability of concrete as relatively measured by conducting laboratory tests such as acid attack test and rapid chloride permeability test. In acid attack test concrete specimens were immersed in acid for 28 days and 56 days. The compressive strength, loss of mass are compared for acid immersed specimen with water curing specimens. Rapid chloride permeability test was conducted at 28 days and 56 days for eight mix proportion. It can be concluded that which type of fiber reinforced concrete is suitable for durability. Also concluded that the optimal usage of fiber in concrete in context of durability.

R&D | PAPER PUBLICATION | IT

Dr.S.Durga, Associate Professor, IT has published an article titled "**Resource Provisioning Techniques in Multi-Access Edge Computing Environments: Outlook, Expression, and Beyond**" in the Journal of Mobile Information Systems, Volume 2022. <https://doi.org/10.1155/2022/7283516>. This is an **SCI** journal.

Hindawi
Mobile Information Systems
Volume 2022, Article ID 7283516, 24 pages
<https://doi.org/10.1155/2022/7283516>



Review Article

Resource Provisioning Techniques in Multi-Access Edge Computing Environments: Outlook, Expression, and Beyond

S. Durga¹, Esther Daniel², J. Andrew Onesimu³, and Yuichi Sei⁴

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²Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences, Coimbatore 641114, India
³Department of Computer Science and Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576104, India
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Academic Editor: Giovanni Nardini

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Mobile cloud computing promises a research foundation in information and communication technology (ICT). Multi-access edge computing is an intermediate solution that reduces latency by delivering cloud computing services close to IoT and mobile clients (MCs), hence addressing the performance issues of mobile cloud computing. However, the provisioning of resources is a significant and challenging process in mobile cloud-based environments as it organizes the heterogeneous sensing and processing capacities to provide the customers with an elastic pool of resources. Resource provisioning techniques must meet quality of service (QoS) considerations such as availability, responsiveness, and reliability to avoid service-level agreement (SLA) breaches. This investigation is essential because of the unpredictable change in service demands from diverse regions and the limits of MEC's available computing resources. In this study, resource provisioning approaches for mobile cloud computing are thoroughly and comparatively studied and classified as taxonomies of previous research. The paper concludes with an insightful summary that gives recommendations for future enhancements.

1. Introduction

Currently, hundreds of millions of mobile phones are in use worldwide. The ubiquity of these devices could be leveraged to help utilize the distributed and scalable services from the cloud [1]. In recent years, with the upcoming innovation of mobile phone technologies and the Internet, current mobile users are experiencing a new landscape of services [2]. Apart from the usage of distributed application frameworks, which permit software engineers all around the world to plan progressively complex projects that require more processing power and compute capability [3], mobile cloud computing (MCC) is a new computing paradigm that plays a significant role in urban environments due to the growing number of mobile clients it serves [4–6]. With rapid improvements in the cloud and mobile technologies, the MCC environment was formed, which addresses issues such as battery capacity, processing power, memory, and speed [7]. MCC allows

customers to utilize their mobile phones to access third-party cloud-hosted apps. The application's data storage and compute-intensive operations were shifted to the cloud [8]. Dropbox, Asana, and Apple's iCloud services are all instances of cloud-based mobile apps [9]. As per Mordor Intelligence, the worldwide mobile cloud business will be worth \$118.70 billion by 2026 as mobile cloud computing capabilities become more prevalent. Mobile cloud ensures that mobile users have access to cloud-based data and mobile-specific apps and services. Gmail, Outlook, and Yahoo Mail are examples of mobile e-mail apps that save data using mobile cloud technology. Mobile social networking sites such as Twitter, Instagram, and Facebook enable real-time data sharing, allowing users to store data and share movies. MCC is used in mobile e-commerce apps to embrace scalable processing capability. MCC's mobile healthcare enables substantial volumes of real-time data storage in the cloud, ensuring rapid and easy

R&D | PATENT PUBLICATION | MECH

(12) PATENT APPLICATION PUBLICATION	(21) Application No. 202241071410 A
(19) INDIA	
(22) Date of filing of Application : 10/12/2022	(43) Publication Date : 30/12/2022
(54) Title of the invention : VIRTUAL LABORATORY FOR SCIENCE SUBJECTS AT SCHOOL LEVELS	
<p>(71) Name of Applicant : 1) Sri Krishna College of Engineering and Technology Address of Applicant : Sri Krishna College of Engineering and Technology, Coimbatore -641008.</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1) Mr. RAMACHANDRAN Address of Applicant : Assistant Professor Dept. of Mechanical Engineering, Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>2) RITHISH M S Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>3) SAKTHIVEL B Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>4) SEMBULINGAM M Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>5) VEL PRAKASH V L Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>6) SRINITHI B Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p> <p>7) MONISSHA D Address of Applicant : Sri Krishna College of Engineering & Technology, Kuniyamthur, Coimbatore -641008.</p>	
(51) International classification	G09B0019000000, H03K0019177360, H04N0021610000, H03K0019177280, G06Q0050200000
(86) International Application No	: PCT//
Filing Date	: 01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	: NA
Filing Date	: NA
(62) Divisional to Application Number	: NA
Filing Date	: NA
(57) Abstract : To move labs to the online environment. We sought to review digital labs and/or simulations to determine the best use of these tools in our teaching as well as to determine the characteristics that made a digital lab a useful teaching tool. Devise a way to impart knowledge to children about practical subjects like Chemistry, Physics, and Biology. This project aims to create a platform using various technologies like AR/VR, Deep learning in order to give cheap and efficient solutions to schools to teach practical subjects.	

Mr.N.Ramachandran, Assistant Professor, Department of Mechanical Engineering along with **Rithish M S, Sakthivel B, Sembulingam M, Vel Prakash V L** – Final year Mechanical Engineering students and **Monisha D** – Final year CSBS student has published a patent on 'Virtual Laboratory for Science subjects at school levels' in IPR India identified with application number - 202241071410 A.

R&D | PATENT PUBLICATION | MECH

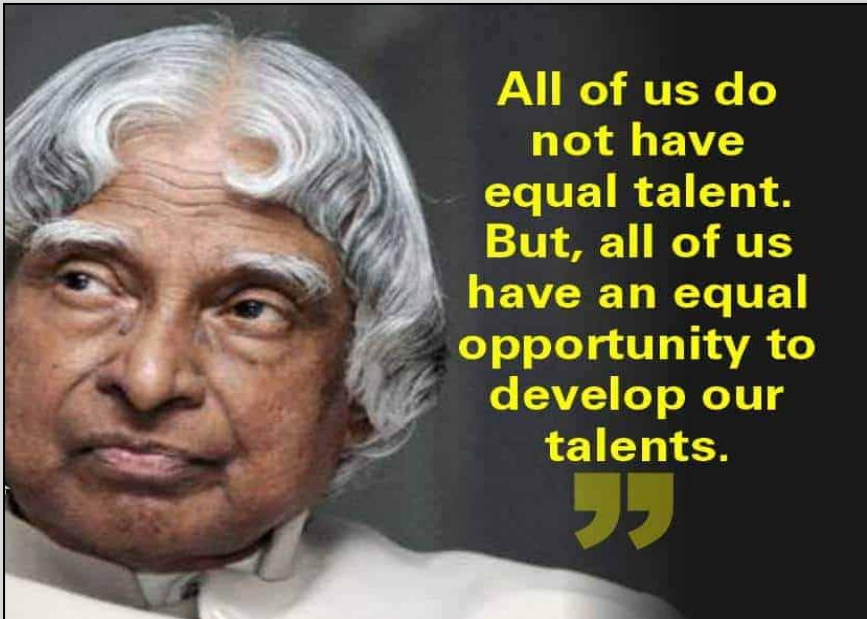
(12) PATENT APPLICATION PUBLICATION	(21) Application No.202241071665 A
(19) INDIA	
(22) Date of filing of Application :12/12/2022	(43) Publication Date : 30/12/2022
(54) Title of the invention : AN AUTOMATED KASHAYA MAKING MACHINE	
(51) International classification :A61K0036906800, A23L0033105000, A61K0036540000, A61B0005021000, G06F0009540000	(71) Name of Applicant : 1) Sri Krishna College of Engineering and Technology Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore -641008, ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1) Mr. RAMACHANDRAN N Address of Applicant :Assistant Professor Dept. of Mechanical Engineering, Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 2) PAVAN KUMAR M A Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 3) JOSHAN REGOBERT M Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 4) SRIDHARSNI S Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 5) RITHANI RAJYASREE V Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 6) SWATHI M NAIR Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 ----- 7) TRISHA S Address of Applicant :Sri Krishna College of Engineering & Technology, Kuniyamuthur, Coimbatore -641008 -----
(86) International Application No :PCT// Filing Date :01/01/1900	
(87) International Publication No : NA	
(61) Patent of Addition to Application Number :NA Filing Date :NA	
(62) Divisional to Application Number :NA Filing Date :NA	
(57) Abstract : Herbal drink also known as Kashaya is a traditional form of dosage in Ayurveda. It resorts to a water decoction or water extract of several herbs and can be used for the ailments like cough, cold, indigestion, blood pressure etc. Mostly, spices and herbs which are available in an around us like, Tulsi, Ginger, Neem leaves, Cinnamon, Cumin etc. Nowadays, many nutritionists find Kashaya an effective way to stay hale and hearty. In this prevailing era of Covid 19, sustaining a good health has become highly vital. According to the government and Ministry of Ayush, They have repeatedly reiterated that it is essential to drink Kashaya on a regular basis	

Mr.N.Ramachandran, Assistant Professor, Department of **Mechanical Engineering** along with the students team has published a patent on **‘Automated Kashayam Making Machine’** in IPR India identified with application number –202241071665 A.

Team Members:

- Joshan Regobert M – III Mech
- Pavan Kumar M.A - III Mech
- Sridharsni S – IV IT
- RithaniRajyasree V - IV IT
- Swathi M Nair – IV ECE

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EEE | TESTIMONIAL BY PLACED STUDENTS

Going into college, my only goal was to graduate with an engineering degree. But, looking back on the last four years, Sri Krishna College of Engineering and Technology has played an integral part in my development as a capable Engineer. The college has constantly provided me with good opportunities and resources to improve myself. The faculty at Electrical and Electronics Department is second to none. They are proficient, accessible, and patient. The placement team here works hard to bring in several core and big companies; there are placement drives happening almost every day. The workshops and hackathons conducted at the institution helped me get a good overview of what is needed to work in a collaborative and professional environment. I am very grateful to them for assisting me in obtaining an internship at Schneider electric drive as an Engineering Intern.

J.V. Swetha
[EEE – 2023 Batch]
Schneider Electric
Drive - 9 LPA

ECE | TESTIMONIAL BY PLACED STUDENTS

ARUL A
ECE (2021 Batch),
Infosys

My splendid journey with SKCET is definitely the one will cherish for life and I am grateful to the faculty members and Placement Team for their extended support in engraving students to attain their goals. I was able to learn a lot which helped me to excel academically and provided opportunities to showcase my talents. I am also very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team. The extraordinary atmosphere helped me to develop my interpersonal skills and made me capable of facing future endeavors. All this experience and learning helped me bag a job at Infosys.

MECH | TESTIMONIAL BY PLACED STUDENTS

SRICHARANA P
MECH (2021 Batch),
Sanmar

SKCET is the place that gave me lots of exposure as well as memories to take it for life time. Especially Placement team is very supportive and encouraging us in all aspects. We had prior trainings and mock interviews that helped us get crack the interviews fearlessly. It gave me the best initial place to start my career. I could not resist that SKCET is a place that reminds me to the long way for anyone like me here. I had my best days here in every way. Thanks to my parents, SKCET Management, Principal and the entire SKCET family for the wonderful opportunity.

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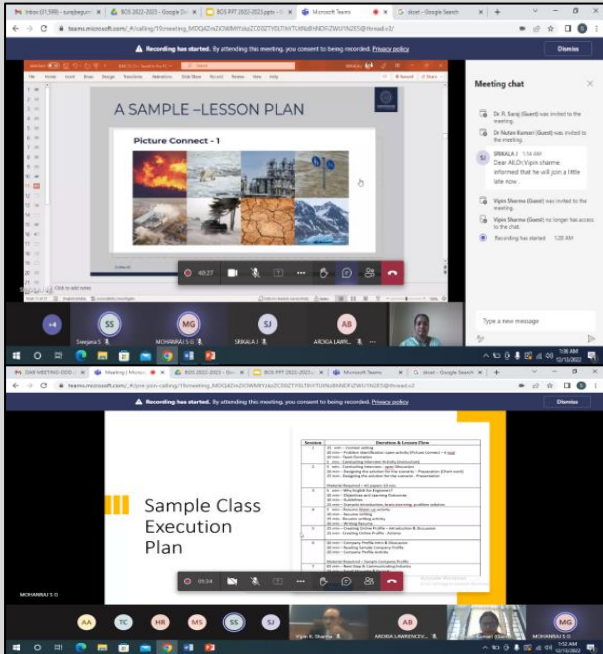
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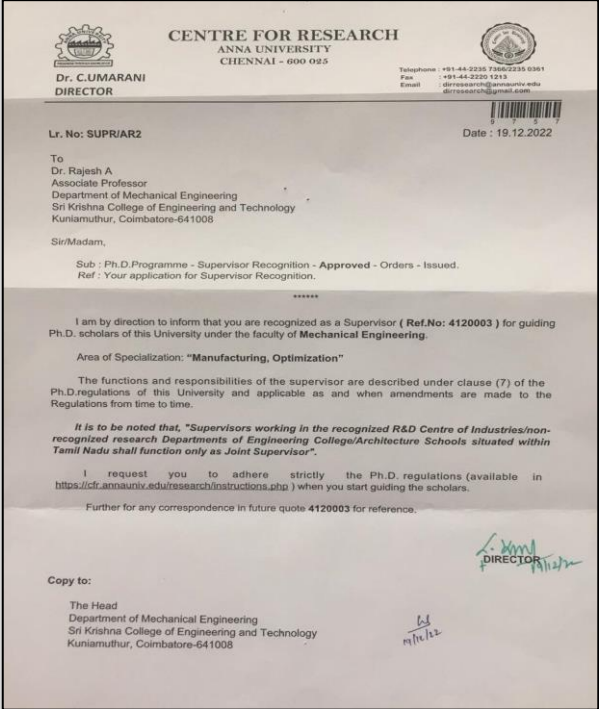
S&H | ADVISORY BOARD MEMBER



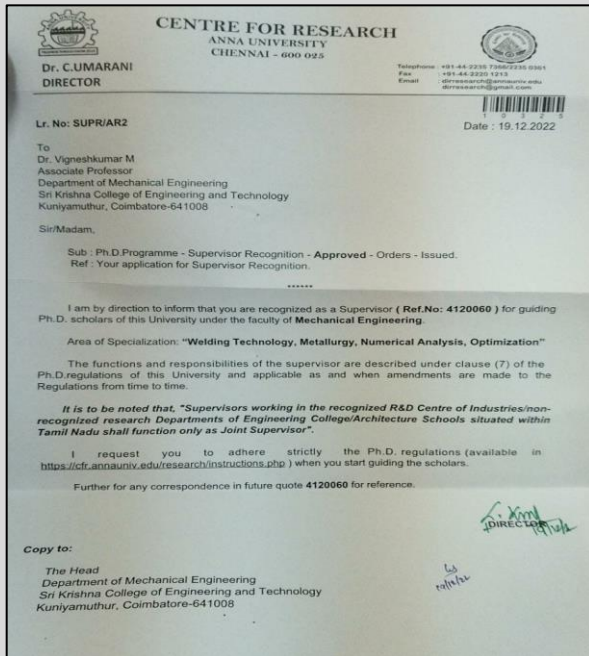
Dr.R.Suraj Begum, Professor, Department of **Science and Humanities** has been invited as the English Department Advisory Board Member for the academic deliberations at Kumaraguru College of Technology, Coimbatore.

MECH | RESEARCH SUPERVISOR

Dr.A.Rajesh, Assistant Professor, **Mechanical Engineering** has been recognized as a supervisor for guiding Ph. D scholars by Anna University, Chennai. His area of specialization is Manufacturing Engineering and Optimization.



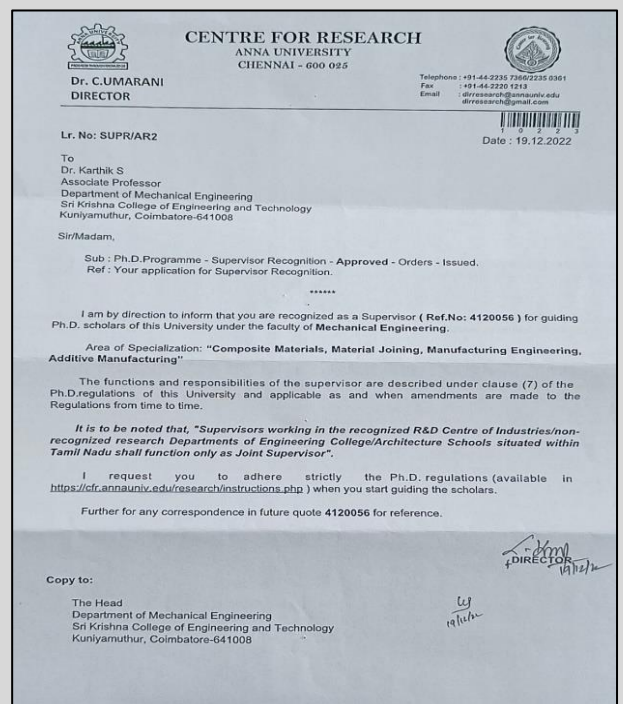
MECH | RESEARCH SUPERVISOR



Dr.M.Vigneshkumar, Assistant Professor, **Mechanical Engineering** has been recognized as a supervisor for guiding Ph. D scholars by Anna University, Chennai. His area of specialization is Welding Technology, Metallurgy, Numerical Analysis and Optimization.

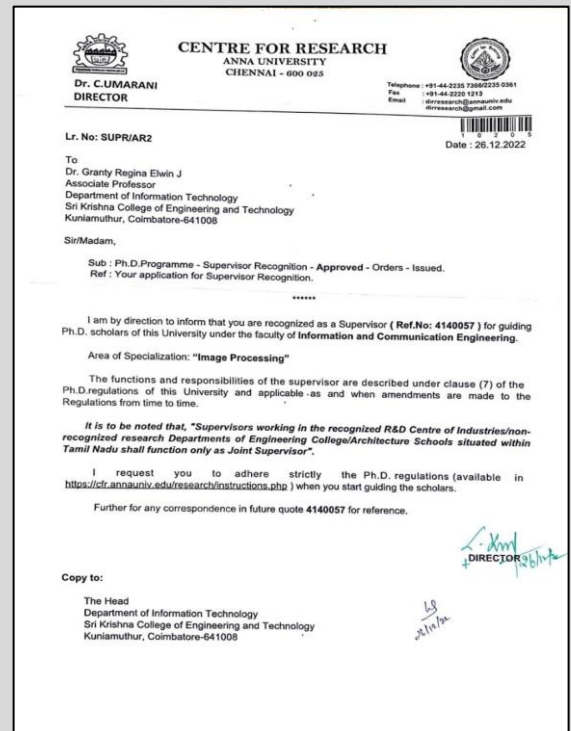
MECH | SUPERVISOR RECOGNITION

Dr.S.Karthik, Assistant Professor, **Mechanical Engineering** has been recognized as a supervisor for guiding Ph.D scholars by Anna University, Chennai. His area of specialization is Composites Materials, Material Joining, Manufacturing Engineering, Additive Manufacturing.



IT | RESEARCH SUPERVISOR

Dr. Granty Regina Elwin J, Associate Professor, Department of Information Technology has been recognized as a Supervisor for guiding Ph.D. scholars of Anna University under the Faculty of Information and Communication Engineering. Her area of specialization is "Image Processing".



CSBS | RESOURCE PERSON

Dr.S.Balakrishnan, Professor and HoD, Department of Computer Science and Business Systems, has been the Resource Person for the “**Webinar on Machine Learning using Generative Adversarial Networks (GAN)**” organized by Kuppam Engineering College, Kuppam, Andhra Pradesh in association with **Rotary Club of Global Scholars** on 04.01.2023, through Online.



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SOM | WEBINAR ON EXPECTATION FROM FINANCIAL MARKETS IN 2023



Dr.P.Pon Meenakshi, Professor, School of Management, has participated in the National Level Webinar on “Expectation from Financial Markets in 2023” by Kirron Bindu, Chief Learning Officer – Stock Byte, Professor in the practice of Finance on December 27th 2022.

CSE | FDP ON EMERGING RESEARCH TRENDS IN COMPUTING TECHNOLOGIES

M.Vengateshwaran, Assistant Professor, Department of CSE has participated in the one week Faculty Development Program on “Emerging Research Trends in computing Technologies” organized by Dr.M.G.R Educational and Research Institute Chennai during November - December 2022.



CIVIL | FDP ON ERA OF CHANGE - AI & IOT



Dr.P.Saravanakumar, Associate Professor, Civil Engineering Department, participated in a 2-day FDP on “Era of Change – Artificial Intelligence and IoT using Google Cloud Core Infrastructure” from 22nd to 23rd December 2022 at SKCET organised by the Department of CSBS and AI&DS, SKCET.

EEE | FDP ON ELECTRIC VEHICLE TECHNOLOGY: CHALLENGES AND OPPORTUNITIES

Dr.Ramji Tiwari, Assistant Professor, Department has participated in the Five Days online Faculty Development Program on “Electric Vehicle Technology: Challenges and Opportunities” organized by Electrical and Electronics Engineering Department, Sasi Institute of Technology and Engineering, Andhra Pradesh from 19th to 23rd December, 2022.



MCT | FACULTY CERTIFICATION



Mrs.R.Priyadharshini, Dr.M.Bhuvaneshwari and Mrs.S.Nithyapriya, Assistant Professors of MCT, have participated in 3 days National level online Faculty Development Program on “Research Challenges in Artificial Intelligence and Robotics” conducted by Sri Krishna College of Engineering and Technology, from 27.12.22 to 29.12.22.

MCT | INFOSYS CERTIFICATION



Mrs.S.Kannaki, Assistant Professor of **MCT** has successfully completed the online course on” **Basics of Python**”, on 03.01. 2023.

CSE | FDP ON RECENT ADVANCES IN ROBOTICS & AUTOMATION

Dr.K.Ramesh, Professor, Department of **CSE** has participated in two days of online FDP on “**Recent Advances in Robotics and Automation**” conducted by the Department of Mechatronics Engineering during December 2022, SKCET, Coimbatore.



MECH | FDP ON RESEARCH SCOPE IN ELECTRIC VEHICLES

Dr.K.P.Yuvaraj, Assistant Professor, Mechanical Engineering has actively participated in the AICTE recognized FDP on 'Research scope in Electric Vehicles' conducted by our Electrical Engineering Department from 5.12.2022 to 9.12.2022.



M.TECH CSE | COURSERA CERTIFICATION

Mr.Pradeep G, Assistant Professor, Department of M.Tech Computer Science and Engineering has successfully completed a course on "Introduction to Big Data" organized by Coursera on 02.01.2023.

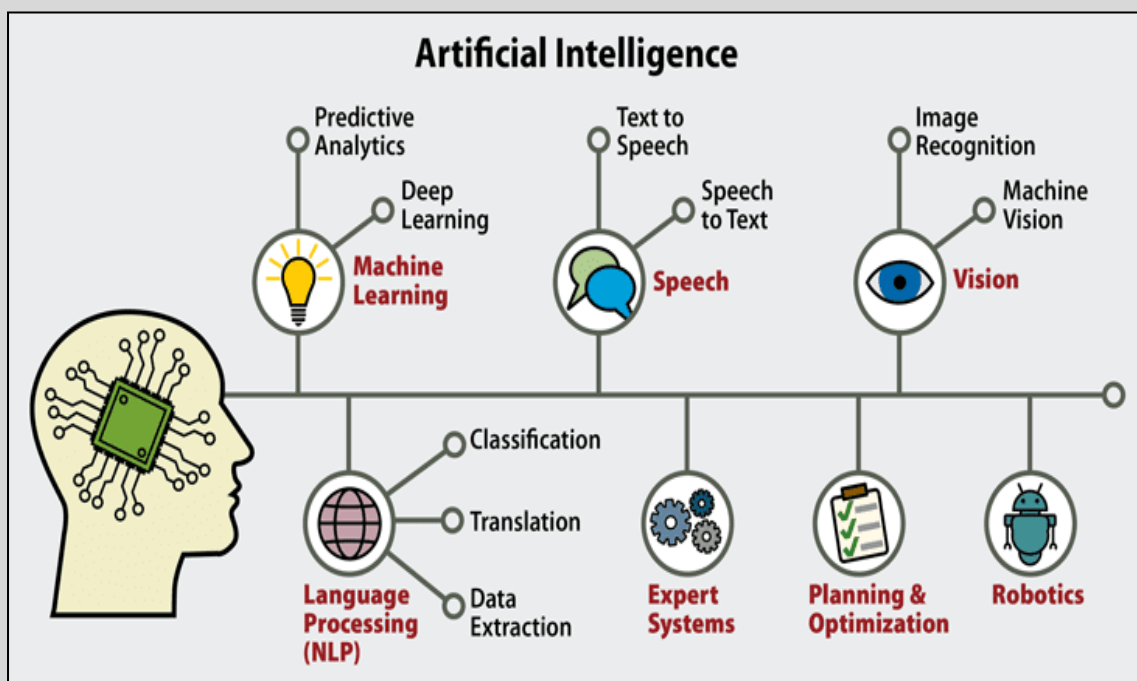


M.TECH CSE | GOOGLE CLOUD CERTIFICATION

Dr.A.Pushpalatha, Associate Professor along with the Final year students of M.Tech Computer Science and Engineering has successfully completed a course “Google Cloud Associate” organized by Coursera and Google Cloud on the month of December.



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EEE | CONFERENCE PRESENTATION



3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) – 2022

Date: 15th & 16th December 2022

Organized by: CMR Institute of Technology, Bengaluru, India
IEEE Conference ID: #56876

Certificate of Presentation

This is to certify that **Ramji Tiwari** has successfully presented a paper titled “Evaluation of the MPPT for the Wind Energy Conversion System's Performance using ANN and ANFIS” in the 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) Organised by CMR Institute of Technology, Bengaluru, India on 15th -16th December 2022.



Dr. Viji K
Organizing Secretary



Dr. Chitra K
Conference Chair



Dr. Sanjay Jain,
Principal, CMRIT, Bengaluru



3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) – 2022

Date: 15th & 16th December 2022

Organized by: CMR Institute of Technology, Bengaluru, India
IEEE Conference ID: #56876

Certificate of Presentation

This is to certify that **Surjith Surya V** has successfully presented a paper titled “Evaluation of the MPPT for the Wind Energy Conversion System's Performance using ANN and ANFIS” in the 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) Organised by CMR Institute of Technology, Bengaluru, India on 15th -16th December 2022.



Dr. Viji K
Organizing Secretary



Dr. Chitra K
Conference Chair



Dr. Sanjay Jain,
Principal, CMRIT, Bengaluru

Dr. Ramji Tiwari, Assistant Professor, **EEE** Department along with **V. Surjith surya**, student of **Third year EEE** have presented and published a paper entitled “**Evaluation of the MPPT for the Wind Energy Conversion Systems Performance using ANN and ANFIS**” in the 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) Organized by CMR Institute of Technology, Bengaluru.

EEE | CONFERENCE PRESENTATION




2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)
 23rd – 25th December 2022

Certificate

This is to certify that Dr./Prof./Mr./Ms. **Subhalakshmi N** has presented paper entitled **Finite Element Analysis of Interior PMSM for E-Loader Application** in 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) during 23rd & 25th December 2022.

 Prof. Mohammed Elahi
Convener
  Dr. Mohammed Zahed Ansari
General Chair




2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)
 23rd – 25th December 2022

Certificate

This is to certify that Dr./Prof./Mr./Ms. **Sharan C M** has presented paper entitled **Finite Element Analysis of Interior PMSM for E-Loader Application** in 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) during 23rd & 25th December 2022.

 Prof. Mohammed Elahi
Convener
  Dr. Mohammed Zahed Ansari
General Chair




2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)
 23rd – 25th December 2022

Certificate

This is to certify that Dr./Prof./Mr./Ms. **Surrya M** has presented paper entitled **Finite Element Analysis of Interior PMSM for E-Loader Application** in 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) during 23rd & 25th December 2022.

 Prof. Mohammed Elahi
Convener
  Dr. Mohammed Zahed Ansari
General Chair




2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)
 23rd – 25th December 2022

Certificate

This is to certify that Dr./Prof./Mr./Ms. **Vishal M** has presented paper entitled **Finite Element Analysis of Interior PMSM for E-Loader Application** in 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) during 23rd & 25th December 2022.

 Prof. Mohammed Elahi
Convener
  Dr. Mohammed Zahed Ansari
General Chair




2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)
 23rd – 25th December 2022

Certificate

This is to certify that Dr./Prof./Mr./Ms. **Yokes E** has presented paper entitled **Finite Element Analysis of Interior PMSM for E-Loader Application** in 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) during 23rd & 25th December 2022.

 Prof. Mohammed Elahi
Convener
  Dr. Mohammed Zahed Ansari
General Chair

Ms.N.Subha Lakshmi, Assistant Professor, EEE Department along with **C.M.Sharan, M.Surrya, M.Vishal, E.Yokes** students of Final year EEE have presented and published a paper entitled **“Finite Element Analysis of Interior PMSM for E-Loader Application”** in the International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) organized by IEEE, Bengaluru Section.



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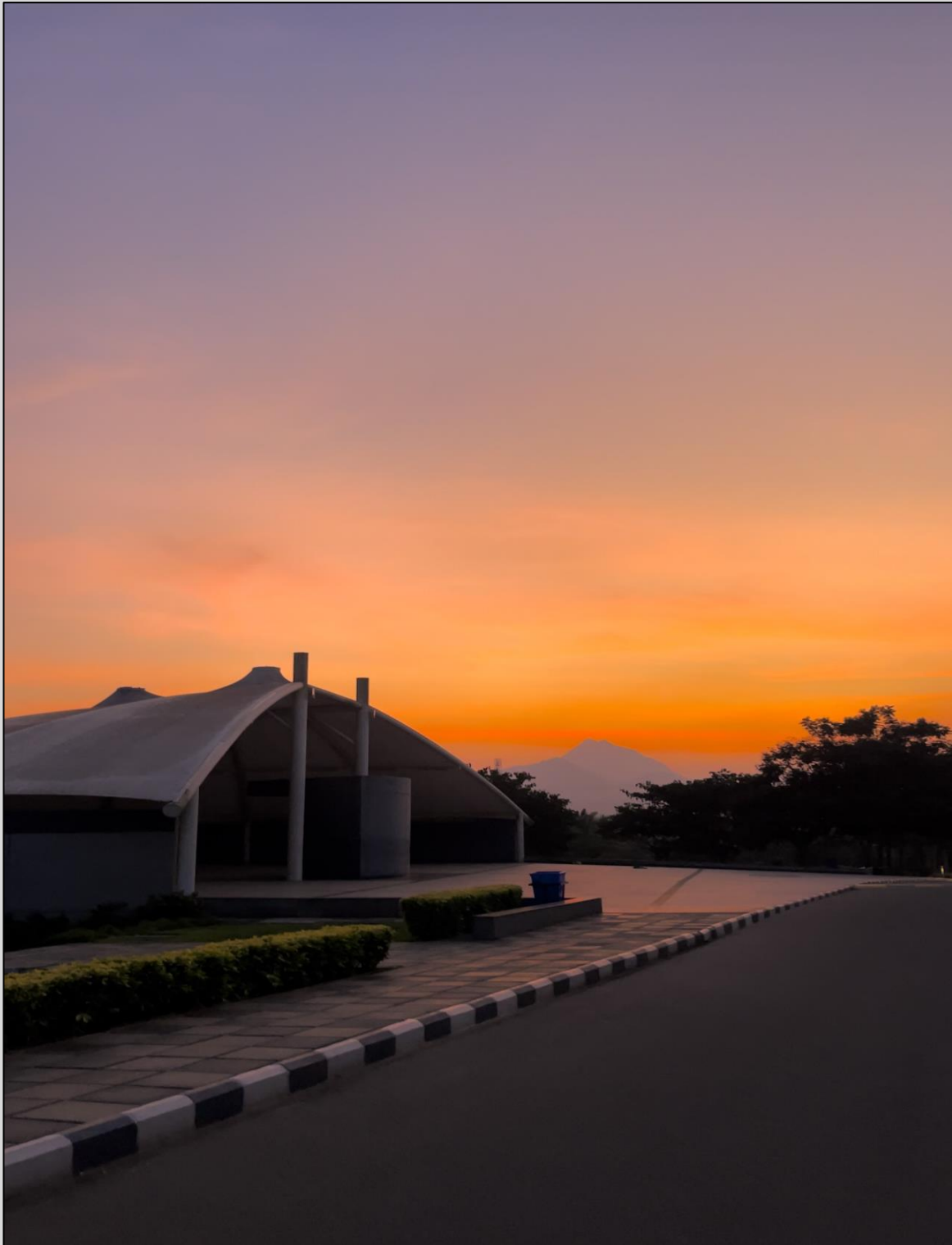

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M.Sathish

III year - AI&DS

