

JULY MONTHLY NEWSLETTER

Editor in Chief

Editors

Dr. Srinivasan Alavandar Principal, ACT Ms N Dhivya, AP - S&H Ms S Archana AP - EEE Mr V Kothantapani - EEE II Year



TOPPERS LIST



The Department of Biomedical Engineering students (2019-2023) batch University have secured Anna **6,11,20,23,23,24** in the University Examination of April/May 2023. We thank our dedicated students and faculty for their hard work and commitment, leading to this outstanding achievement.





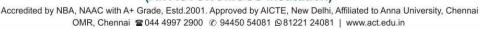


IDW 2024



Anandhan D, Thina A, G. B. Kiricklochan, and Harini, students from the Departments of Mechanical Sciences and Mechatronics Engineering, participated and reached the final rounds of the 24-hour Challenge during India Design Week 2024 under the mentorship of Mr. K. Saravanan. The event was held at Sairam Institutions on July 25th and 26th, 2024.







GALLERY



















FDP Event



The Department of **Computer Science and Engineering** has conducted a week **Faculty Development Program(FDP)** on, **"Problem Solving using Python Programming"** from July 15th to July 20th 2024. The inaugural address is given by Dr. Srinivasan Alavandar, the Principal, Mr. T. Srinivasan, Director, Glosys Technologies Pvt Ltd delivered the keynote address of FDP. About 25 faculty members across all departments are attending this FDP.







Gallery























INDIA SUSTAINABILITY

STARTATHON

THE FUTURE FOUNDERS CO.



Centre for Entrepreneurship Development Anna University Chennai



INDIA Sustainability Startathon 2024

Participate in the India Sustainability Startathon & Stand a chance to win a fully-funded scholarship to Singapore. Be part of the ASEAN-CHINA-INDIA YOUTH LEADERSHIP SUMMIT 2024 & pre-incubate your Sustainability StartUp.

Qualify for a pre-incubation program by DISQ & SOBUS

Attend a Certification Boot-camp on Design Thinking

Get Free Access to Online Courses worth USD 375

Attend 10 Master Classes by International Faculty

Get Mentored by International Mentors



Scan to Register

Register NOW & Get Discounted Tickets in CED AU Hackathon & Events till March 2025 All Pre-final teams are eligible for Pre-inubation at CED AU

For Queries: 044 22359287/9289 cedau.outreach@gmail.com



10,000 Grand to be wor #ACIYLS



023 Youth Leadership Summit Winners

A Fully Funded Opportuni to be in SINGAPORE Awaits Yo

Dr. Ishwarya M.V., Associate Professor and Head of the Department Artificial Intelligence and Data Science, attended the orientation program conducted by Centre for Entrepreneurship Development, Anna University for INDIA SUSTAINABILITY STARTATHON 2024 on 10th July 2024 at 3.00 p.m.

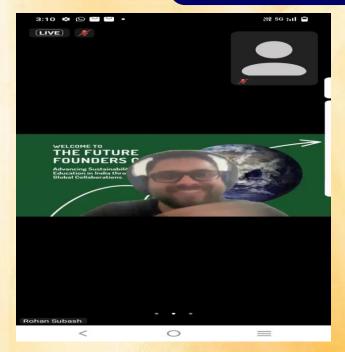


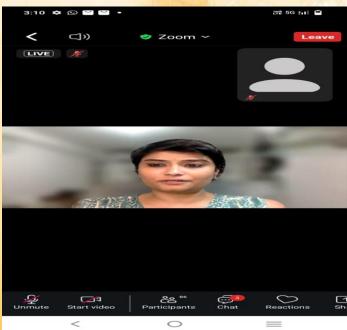




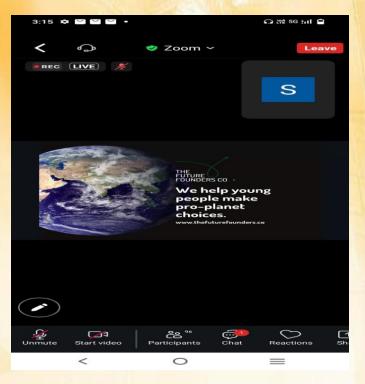


GALLERY



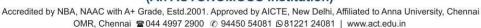












Vol.07. issue.01 01.07.2024

ENTERPRENEURSHIP

DEVELOPMENT CELL

COORDINATORS MEETING





Ishwarya M.V., over all college EDC Coordinator, Associate Professor and Head of the Department of Artificial Intelligence and Data Science, conducted the EDC meeting with all the coordinator staffs from other departments. The following agenda items were discussed in the meeting on 13th **July 2024**:

- Welcoming new EDC coordinators.
- **Improving Startups**
- EDC cell website
- **Organizing Seminar/Webinars**



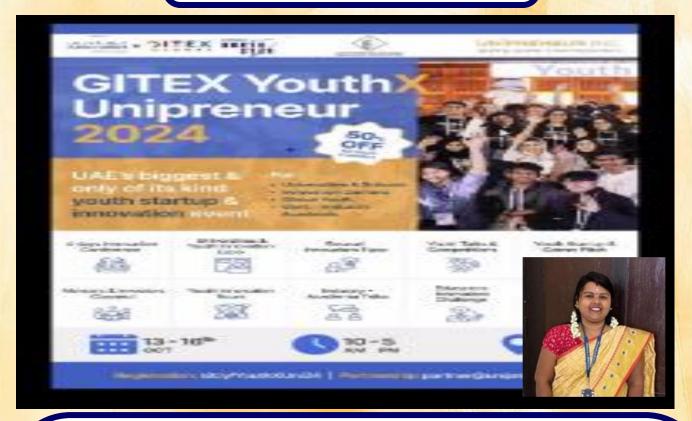






STARTUP AND INNOVATION

EVENT



Dr. Ishwarya M.V., Associate Professor and Head of the Department Artificial Intelligence and Data Science, has attended an orientation program organized by the Crescent Global Outreach Mission on "Awareness Session on GITEX YOUTHX Unipreneur 2024" for academicians to engage with industry leaders, innovative startups, and fellow academics from across the globe from 11:30AM - 12:30PM on 24th July 2024.



BUREAU OF INDIAN STANDARDS CLUB

COORDINATORS MEETING



Dr. Ishwarya M.V., over all BIS college Coordinator, Associate Professor and Head of the Department Artificial Intelligence and Data Science, conducted Bureau of Indian Meeting with all the **Standards** Club department coordinators on 13th July 2024.

The agenda of the meeting:

on submission of original and xerox Discussion documents for the poster design competition to apply for funding from BIS.





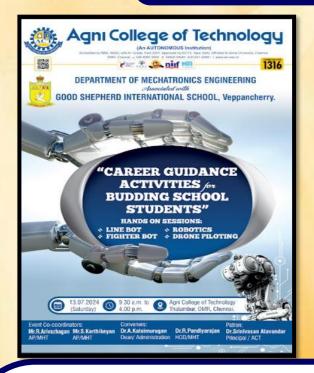
TIME TABLE COORDINATOR MEETING



Dr Sureka N, Assistant Professor and Head of the Department of Biomedical Engineering, overall timetable coordinator, conducted the timetable coordinator's meeting on 31st July 2024. The agenda includes college timings and she also instructed the coordinators to prepare the schedule.



DEPARTMENT ACTIVITY

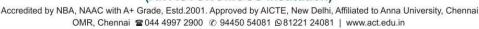






Carrier guidance activities for budding school students were organized by the Department of Mechatronics Engineering, led by Dr. R. Pandiyarajan, Professor & Head, along with Dr.R.Arularasan, Mr.S.Karthikeyan, Mr.R.Arivazhagan and Mr.K.Ganeshkumar. Students from Good Shepherd International School participated in this event. Dr. A. Kalaimurugan, Dean Administration, addressed the students and delivered a wonderful speech on career guidance. Hands-on training in Drone Simulation and Industrial Automation was provided to the students. Additionally, the students participated in a drone field study.







GALLERY





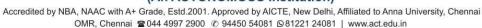














GALLERY













Dr. Srinivasan Alavandar, Principal had a meeting with Ms.Hemarekha, Coordinator - Training (Tamil Nadu)Spoken Tutorial Project, NMEICT, MoEIIT Bombay held on 30.07.2024 at Principal Chamber to establish Academic Centre for IIT Spoken Tutorial at Agni College of Technology. The Benefits of taking up Spoken Tutorial was discussed and Dr.P.ANAND, Associate Professor/EEE was nominated as Single Point of Contact (SPOC) for the Programme.



A MONTHLY NEWSLETTER

WORK INTEGRATED

LEARNING









Ms. Himali Barman, Assistant Professor, Department of Biomedical Engineering, has visited about 39 Companies like **P&C Projects**, **Saiteck Erp Solutions Private Limited, Vish Gyana Technology Solutions Pvt ltd, Eagle Hi-tech Softclou Pvt Ltd etc.**, in Chennai as part of the **WIL (Work Integrated Learning)** coordination from 11th July- 15th July 2024.







CERTIFICATE

OF APPRECIATION

is awarded to

ANAND C

AGNI COLLEGE OF TECHNOLOGY

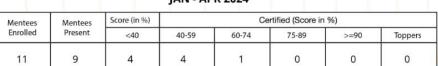
CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

MANUFACTURING PROCESS TECHNOLOGY I & II

JAN - APR 2024





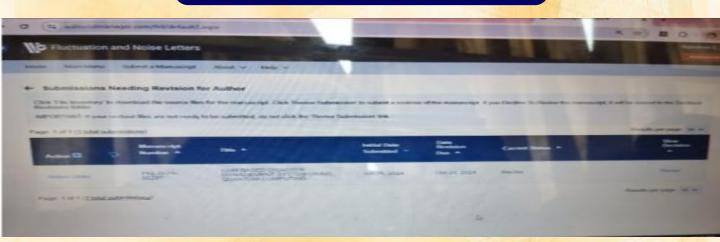


PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mr.Anand C, Assistant Professor of Department of Aerospace Engineering, has received a Certificate of Appreciation for his role as **Mentor** for NPTEL Course **Manufacturing Process Technology I & II** for 11 mentees enrolled.









Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has got acceptance for the publication of the research paper titled "QSM BASED DISASTER MANAGEMENT USING QUANTUM COMPUTING" to the journal "Fluctuation and Noise Letters", World scientific publications which has been indexed by SCI on 31st July 2024.



FACULTY ACHIEVEMENT



Dr. R. Ratheesh, Assistant Professor, Department of Electronics and Communication Engineering has presented a paper titled "Enhancing Intrusion Detection with Grey Wolf Optimization-Tuned Neural Networks in a Big Data Framework" held on 28th and 29th June, 2024 in Vemana Institute of Technology, Bengaluru.



FACULTY ACHIEVEMENT



IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS 2024)

28th - 29th June 2024



Certificate

This is to certify that Dr./Prof./Mr./Ms. Ohmshankar S has presented paper entitled Lung sound Classification via Improved Deep Architecture with Transform and Spectral Feature set in IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS-2024) during 28th to 29th June 2024 at Vemana Institute of Technology, Bengaluru.



luzayorawhery

Dr. Vijayasimha Reddy B.G General Chair - ICITEICS 2024



Prof Ankitha A

Mr. S. Ohmshankar, Assistant Professor, Department of Electronics and Communication Engineering has presented a paper titled "Lung Sound Classification via Improved Deep Architecture with Transform and Spectral Feature Set" held on 28th and 29th June, 2024 in Vemana Institute of Technology, Bengaluru.





FACULTY ACHIEVEMENT





CERTIFICATE NO

PEL-ML-CO-083

CERTIFICATE OF COORDINATOR

THIS IS TO CERTIFIY THAT



PARCECH SOLUCIONS

NAME

B.Dhanasakkaravarthi

COLLEGE

Agni college of technology

has Successfully organized the Course on 21 Days Masterclass on Machine Learning



From 10.06.2024

to

30.06.2024

Lions

Sh. K. K. Thakur CHAIRMAN IETE, Ranchi M.Malaiyappan

M.Malaiyappan Director Pantech e learning

Dr.Dhanasakkaravarthi B , ASP of the Department of Mechanical Science , has Organized a course **"21 days" Master class on Machine Learning"** on **Pantech e-learning Platform** from 10.06.2024 to 30.06.2024

BE AN ACTioneer, Aspire To BE the BEST



Agnı College of Technology,











Dr. G.A.Senthil, Associate Professor, Department of Information Technology, has published a Design Patent on the topic "Machine Learning Based Chip Control Oxygen Concentrator with Filter" dated 14-06-2024.



Journal of Sol-Gel Science and Technology

ORIGINAL PAPER

Termite wings derived N-doped carbon nanodots: applications for ${\rm Cu2}^+$ sensing, fluorescent ink and flexible polymeric film

Jothi Vinoth Kurnar³ - Duraisamy Karthika² - V. Arul³ - K. Radhakrishnan⁴ - Pitcheri Rosaiah⁵ - Samar A. Aldossari⁶ I. Neelakanta Reddy⁷ - Cheolho Bai⁷

Received: 17 April 2024 / Accepted: 10 May 2024

10 The Author(s) under our hadren from the Service Science - Reviews Media 11.C mart of Subsect Nature 2024

Abstract

Abstract
This study used a simple hydrothermal approach to create nitrogen-doped carbon nanodots (TWNCNDs) from termite
usings. The TWNCNDs have high thorescence (FL) quality with a quantum yield of 11.8% In order to detect Cu²⁺ ions in
ageous circumstances selectively and assistively, we made use of TWNCNDs hy making use of the musual opical features
that they possessed. To evaluated the limit of detection (LOD) for TWNCNDs in the presence of metal ions by using the
Stem-Volumer quadion. The LOD for Cu²⁺ ions was old John, and the detection range was from 0 to 0.5 M/v.
demonstrated their adaptability and potential for practical industrial usage beyond their applications in analytical chemistry
by using the strong blue emission features of the synthesized TWNCNDs as effective fluorescent ink as marking agents and
TWNCNDs/W/V polymeric film in a range of commercial anti-counterfeiting applications.

Graphical Abstract



Keywords Termite wings 'Hydrothermal method 'Quantum yield 'Anti-counterfeiting

Mrs. C.D.Karthika, Assistant Professor, Department of Chemical Engineering has published a paper entitled "Termit wings derived N-doped carbon nanodots: Applications for Cu 2+ sensing, fluorescent ink and flexible polymeric film" in Journal of Sol-Gel Science and Technology-SCIE Journal on 07th June 2024.







IEEE

FACULTY ACHIEVEMENT



List of Reviewers Dr. Sonia Maria D'Souza New Horizon College of Engineering Dr. Santosh Kumar Upadhyay Ajay Kumar Garg Engineering College Ghaziabad Dr. Sharda Harvani Prestige Institute Of Management And Research Indore Amity University Noida Neelam Verma VR Siddhartha Engineering College, SAHE deemed to be university Dr. Y.Sangeetha Dr. R.Ratheesh Agni College of Technology Dr. TVenkatakrishnamo Associate Professor Symbiosis institute of international business, Pune Dr. Vandana Dr. Sreedhar, Jadapalli, Veena G Jntua Manipal University Jaipur Dr. Neha Janu Dr. M.Prabhavathy Coimbatore institute of technology Dr. V. Jyothi JNTUH Dr. Jyoti Metan Dr. Parth Gautam Mandsaur University, Mandsaur, MP Dr. Chaithanya D J Vidyavardhaka College of Engineering D. S.Shylu Sam Dr. Mahesh Kaluti VTU Dr. R.Sathiya SRMIST Vadapalani Campus Dr. Priyamvad Chandel CDBI Dr. Prashant Johri Galgotias University Saran Raj S Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Dr. Megha Arakeri Manipal Institute of Technology, Bangalore Lakshmana Seamavation Labs Pvt Ltd Dr. Shilpee Srivastava Dr. R. Suneetha Rani FLAME University, Pune Dr. Vinod Kumar Reddy Sudharshana K Vemana Institute of Technology Dr. Sharvari C Tamane MGM University, Aurangabad Dr. Farooque Azam Dr. Alshwarya Gowda A G. Electro Optics Engineering, National Formosa University, Taiwai Renugadevi R Vignan's Foundation for Science Technology and Research

Dr. R. Ratheesh, Head/Assistant professor, Department of Electronics and Communication Engineering has invited as a reviewer for the "2024 IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS)" held on 28th and 29th June, 2024 in Vemana Institute of Technology, Bengaluru.



FACULTY ACHIEVEMENT

Experimental Design of a Delay Reduction Model using Enhanced Routing Protocol to Ensure Lifetime Enhancement of Nodes in Wireless Sensor Network

1K. Kannan, 2S. Diwakaran, 3R. Ratheesh, 4P. K. Sheela Shantha Kumari, 5T. Jayakuman

¹Associate Professor, Department of ECE, R.M.K. College of Engineering and Technology, Pudavoyal, Chennal.

²Associate Professor, Department of ECE, Kalasalingam, Loademy of Research and Education,
Sirvillipular.

³Assistant Professor, Department of ECE, Lepit College of Technology, Chennal

⁴Assistant Professor, Department of CEE, Ver Tech Multi Tech Dr. Rangragian, & Dr. Sabunthala Engineering College, Avadi, Chennal.

Assistant Professor (SG), Department of Mechatronics Engineering, KCG College of Technology, Chennal.

E-mail: kannan@rmkcet.ac.in, s.divakaran@klu.ac.in, ratheesh.ece@act.edu.in, sheelashanthakumari@velhightech.com, and the sheelashanthakumari.

juisep19846

Abstract. This study introduces an innovative approach to enhance the longevity of nodes in wireless sensor networks (WSNs) by mitigating delays through an improved routing protocol. In WSNs, where energy consumption and delay profoundly impact network performance and lifespan, optimizing these factors is paramount. Traditional methodologies often rely on clustering techniques and data aggregation to minimize delays and enhance energy efficiency. However, these methods may not fully address the intricacies of WSNs. In this research, we propose a novel approach that integrates Fuzzy C-Means Clustering into a data aggregation framework to optimize energy usage and reduce delays. Unlike conventional models, our method incorporates a hybrid design to ensure enhancements in quality of service. The proposed model employs a whale optimization technique, leveraging heterogeneous functions to optimize results. For cluster head selection, the Ture-hold Sensitive Energy Efficient Somrs Network Protocol (TEEN) is utilized, while Minimum Cost Forwarding (MCT) guidenty proposed model, particularly with Fuzzy C-Means Clustering and TEEN, achieves minimal delay and energy consumption by sensor nodes. A comparative analysis with existing theories underscores the effectiveness of our approach, highlighting significant improvements in energy efficiency, delay reduction, and overall quality of service. Simulation experiments are conducted using MATLAB 2019.

Index Terms—Wireless sensor networks, Delay reduction,

Index Terms—Wireless sensor networks, Delay reduction, Energy efficiency, Routing protocol, Fuzzy C-Means Clustering, TEEN, Minimum Cost Forwarding, Quality of

a complex combination of data computing, wireless transmission, and sensing. These networks are made up of autonomous sensors that are spread out around the space and are meant to keep an eye on things like temperature, lumidity. vibration, pressure, and pollutants. Collaboratively, they send this data to a hub where it can be analyzed [1] [2]. The autonomous nature of sensor nodes, equipped with limited computational, storage, and especially energy resources, defines the design and operational strategies of WSNs, emphasizing the importance of energy efficiency, data reliability, and security.

WSNs are inherently scalable, capable of expanding from a few to thousands of nodes to cover small or extensive areas, making them versatile tools for data collection in inaccessible or hazardous environments. The challenges facing WSNs are as diverse as their applications; they include ensuring the longevity of the network in energy-constrained environments, maintaining data accuracy and reliability in the face of sensor limitations and environmental noise, and safeguarding data against unauthorized access and tampering [3] [4]. These issues necessitate continuous advancements in WSN technologies, such as the development of energy-harvesting techniques to prolong node lifetimes, implementation of advanced data compression algorithms to reduce energy consumption, and enhancement of security protocols.



Dr. R. Ratheesh, Head/Assistant professor, Department of Electronics and Communication Engineering has published article titled "Experimental Design of a Delay Reduction Model using Enhanced Routing Protocol to Ensure Lifetime Enhancement of Nodes in Wireless **Sensor Network"** in IEEE 2024 Ninth International Conference on Science Technology Engineering Mathematics (ICONSTEM) 2024 (Scopus Iune on Indexed).







FACULTY ACHIEVEMENT

Smart Signaling: A Smart Internet of Things assisted Traffic Light Controlling and Monitoring System using Intelligent Sensors

1G Saranya 2R Ratheesh 3S Vijayalakshmi 4R Arunsundar 5M Swarna

¹Assistant Professor, Department of Electronics and Communication Engineering, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Combatore.

²Assistant Professor, Department of ECL, RAIK Engineering College of Technology, Chemna.

³Assistant Professor, Department of ECL, RAIK Engineering College, Chemna

⁴Assistant Professor, Department of ECL and Business Systems, School of Computing, College of Engineering and Technology, State Business of Seene and Technology, Attendibations.

⁴Associate Professor, Department of ECL, Dr. M.G.R. Educational and Research Institute University, Chemna.

E-mail: gsaranya@skcet.ac.in, ratheesh.ece@act.edu.in,svl.eie@rmkec.ac.in, arunsunb@srmist.edu.in, swarna.ece@drmgrdu.ac.in

Swarm occ@

Natract. In contemporary urban environments, efficient traffic management stands as a paramount challenge, necessitating innovative solutions to mitigate congestion, enhance safety, and reduce environmental impact. This paper proposes a Smart Internet of Things, (toT) -assisted Traffic Light Controlling and Monitoring System designed to revolutionize traffic management through real time data to revolutionize traffic management through real time data system integrates edge devices coupped with a variety of sensors, cloud-based infrastructure, and intelligent adjointly of the complex of the control of th

Index Terms—Smart IoT, Traffic Management, Traffic Light Control, Real-time Data Analysis, Sensor Technology, Cloud Infrastructure, Machine Learning, Urban Mobility, Environmental Sustainability, Predictive Traffic Management.

I. INTRODUCTION

City planners and administrators throughout the world are increasingly focused on traffic flow management in this era of fast urbanization and growing populations. Conventional traffic management systems are finding it increasingly difficult to keep up with the demands of today's transportation dynamics, as vehicle densities continue to rise in metropolitan centers [1] [2]. Therefore,

new approaches are urgently required to improve urban mobility and safety while simultaneously optimizing

traffic flow.

The escalating challenges posed by urbanization and population growth have propelled the urgent necessity for innovative traffic management solutions. With urban populations on a constant rise, cities worldwide are witnessing a corresponding surge in traffic congestion and gridlock, which not only incur significant economic costs but also impose detrimental environmental impacts but also impose detrimental environmental impacts predominantly reliant on static rule-based algorithms, stringgle to contend with the dynamic and fluctuating nature of urban traffic patterns, readering them mefficient in optimizing traffic flow. Moreover, the inadequacies of conventional traffic light systems exacerbase safety concerns, as congested roadways heighten the risk of accidents and jeopardize public safety. These pressing issues underscore the critical need for proactive traffic management measures capable of adapting to evolving urban landscapes, emphasizing the imperative for innovative solutions that harmes emerging technologies like the Internet of Things to revolutionize traffic internagement and enhance urban mobility and safety [5] [6].

The design and implementation of IoT traffic light controlling and monitoring systems involve several key components aimed at enhancing the efficiency of urbary attrasportation networks [7] Els. Sensor integration plays a crucial role, with various types of sensors such as infrared, ultrasonic, and video cameras deployed to capture real-time data on vehicular and pedestrian traffic at intersections. Figure 1 illustrates the system for controlling and monitoring traffic lights.



Authorized licensed use limited to: VIT University- Chennai Campus, Downloaded on June 30,2024 at 06,50:17 UTC from IEEE Xplore. Restrictions apply

Dr. R. Ratheesh, Head/Assistant professor, Department of Electronics and Communication Engineering has published an article titled "Smart Signaling: A Smart Internet of Things assisted Traffic Light Controlling and Monitoring System using Intelligent Sensors" in the IEEE 2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM) on June 2024 (Scopus Indexed).





Leveraging SDN: Empirical Evaluation of Privacy Enriched Data Communication over VANET using Software Defined Network Assistance

¹R.Ratheesh, ²S.Vijayalakshmi, ³B.Arunsundar, ⁴M.Swarna, and ⁵G.Saranya

¹Assistant Professor, Department of ECE, Agni College of Technology, Chemnai.
²Professor, Department of ECE, R.M.K. Engineering College, Chemnai
³Assistant Professor, Department of Data Science and Business Systems, School of Computing, College of Engineering and Technology, Standin Technology, Stan

E-mail: ratheesh.ece@act.edu.in,svl.eie@rmkec.ac.in, arunsunb@srmist.edu.in, swarna.ece@drmgrdu.ac.in, gsaranya@skcet.ac.in

Abstract. In the realm of modern transportation systems, Vehicular Ad Hoc Networks (VANETs) play a pivotal role in enabling efficient communication among vehicles and infrastructure elements for enhanced road safety and traffic management. However, the inherent vulnerabilities in VANETs, such as privacy breaches and security threats, necessitate robust frameworks to mitigate risks and ensure secure data transmission. This paper presents a comprehensive architecture for Privacy-Enriched Data Communication over VANETs using Software-Defined Network (SDN) assistance. The proposed framework integrates key components including vehicles, Roadside Units (RSUs), and SDN controllers to facilitate secure and privacy-aware communication. Vehicles act as data sources, employing pseudonyms and encryption mechanisms to protect user privacy. RSUs serve as access points, collecting and relaying data while enforcing access control policies. SDN controllers provide centralized management, dynamically allocating resources and enforcing privacy policies through encryption, pseudonymization, and access control mechanisms. Communication protocol such as IEEE 802.11p and LTE enable vehicle-to-vehicle (V2V) and vehicle-to-instructure (V2I) communication, while the OpenFlow protocol facilitates communication between SDN controllers and network devices. Additionally, trust management mechanisms evaluate the trustworthiness of network entities based on behavioral analysis, reliability metrics, and security considerations, ensuring the integrity and resilience of the network. By amalgamating SDN-based management protocols, the proposed framework offers a robust solution for addressing privacy and security considerations.

I. INTRODUCTION

In the contemporary era, the evolution of transportation systems has become intertwined with technological innovations, paving the way for smarter, safer, and more efficient modes of mobility. One of the most significant technological paradigms shaping this transformation is Vehicular Ad-Hoc Networks (VANETs), an emerging field that leverages the power of data communication to enhance vehicular connectivity and enable a plethora of applications ranging from traffic management to infotainment services. As the world moves towards an era of autonomous and connected vehicles, the importance of efficient data communication over VANETs cannot be overstated [1] [2]. This unique networking paradigm enables vehicles to form temporary networks on-the-fly without relying on centralized infrastructure, thereby fostering decentralized communication in dynamic vehicular environments [3] [4]. Such capabilities hold immense promise for revolutionizing transportation systems by enabling real-time information exchange, cooperative driving, and advanced safety mechanisms.

The foundation of VANETs lies in the seamless transmission of data packets among vehicular nodes, encompassing various types of information ranging from basic telemetry data to multimedia content. However, the inherently challenging nature of vehicular environments poses several daunting obstacles to reliable and efficient data communication [5]. Factors such as high mobility, intermittent connectivity, dynamic network topologies,



Dr. R. Ratheesh, Head/Assistant professor, Department of Electronics and Communication Engineering has published an article titled "Leveraging SDN: Empirical Evaluation of Privacy Enriched Data Communication over VANET using Software Defined Network Assistance" in the IEEE 2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM) on June 2024 (Scopus Indexed).









Tuijin Jishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 45 No. 2 (2024)

Prediction of Breast Cancer Using Hybrid ML Techniques

Sheryl Catherine S. 1, Umadevi G. 2, Balaji Madhavan 3

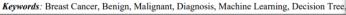
¹ Student, Department of Computer Science and Engineering, Agni College of Tec Chennai, Tamil Nadu India

² Assistant Professor, Department of Computer Science and Engineering, Agni College Chennai, Tamil Nadu India

³ Head of Department, Department of Computer Science and Engineering, Agni College Chennai, Tamil Nadu India



Abstract:- Breast Cancer is one of the most common diseases that occurs in Indian residenthe top ten cancers in America. Every four minutes, a woman in India is affected by according to the statistics. The women living in the suburbs are more likely to get breast can One in twenty-eight women in India are diagnosed with breast cancer. Urban women (1 in 2 it than rural women (1 in 60). Projections for 2023 indicate that the United States alone wi new cancer cases and 609,820 cancer-related death. These deaths can be avoided if th detected early. This project gives a strategy for detecting breast cancer using hybrid ML to goal is to predict breast cancer from an existing input dataset, which has all the necessar Benign and Malignant cancer. This system uses two algorithms Decision Tree and Naïve Ba





Dr. Balaji Madhavan, Head, & Mrs. Uma Devi G, Assistant Professor, Department of Computer Science & Engineering, have published a paper titled , "Prediction of Breast Cancer Using Hybrid ML Techniques" in a Journal of Propulsion Technology.



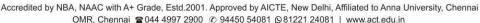






Mrs. Uma Devi G & Mrs. Suganya A Assistant Professors,
Department of Computer Science & Engineering have
filed and published a patent titled "Real-Time CloudDriven Machine learning for Dynamic ICU Ventilator
Management" given by Intellectual Property India.







Tuijin Jishu/Journal of Propulsion Technology

ISSN: 1001-4055 Vol. 45 No. 2 (2024)

Credit Card Fraud Detection Using Hybrid Machine Learning Algorithms

Prajna Parimita Nayak 1, Dr. Balaji Madhavan 2, Umadevi G 3

¹ Student, Department of Computer Science and Engineering, Agni College of Technology, Chennai, Tamil Nadu, India

² Head of Department, Department of Computer Science and Engineering, Agni Co Chennai, Tamil Nadu, India

³ Assistant Professor, Department of Computer Science and Engineering, Agni Co Chennai, Tamil Nadu, India

Abstract:- Evolution and civilization are two faces of the same coin. Human civilizat stone age to the iron age and currently in 2024 we are living in the digital age. Now internet and electronic devices. Improved cost of living, abundant availability of facilitated the use of cashless transactions. Nowadays we can pay using net banking, mo tap and swipe of cards. It increases the possibility of fraud in financial transactions. Fra we do certain things without the consent of authorized stakeholders. Now a days physical is not necessary, we can transact if we have details of the credit card. So, this increas card fraud. To stop credit card fraud, we should have a strong fraud prevention and det card fraud is a loss for both the issuer as well as the user. In this article, we are going to mechanism using Machine learning algorithms. Fraud detection is a binary classification to classify the transactions as fraud or non-fraud. In this article, we are using a hybrid for fraud detection. Logistic Regression, Decision Tree and K Nearest Neighbor algor up the hybrid model. Ensemble voting classifiers consist of several homogeneous weak capability of the Ensemble hybrid model is better than individual models. Sometimes th model out performs legacy systems. When the precision of the model is high it predict our work we are building a hybrid model whose precision is 0.97, where the individual Logistic regression (LR) 0.94, Decision Tree (DT) 0.85 and K nearest Neighbor (KNN





Keywords: hybrid ensemble voting classifier, Logistic regression, decision tree, KNN

Dr. Balaji Madhavan, Head, & Mrs. Uma Devi G, Assistant Professor, Department of Computer Science & Engineering, have published a paper titled, "Credit Card Fraud Detection Using Hybrid Machine Learning Algorithms" in a Journal of Propulsion Technology.





AI-based Smart Visual Assistance System for Navigation, Guidance, and Monitoring of Visually Impaired People

Dr. R. Ratheesh 1 , Sri Rakshaga S R 2 , Asan Fathima A 2 , Dhanusha S 2 and Harini AK 2

¹Assistant Professor, Department of Electronics and Communication Engineering, Agni College of Technology, OMR, Chennai, Tamil Nadu-603103

Department of ECE, Agni College of Technology, Chennai, Tamil Nadu-603103, India

 $\label{eq:email:ratheesh.ece@act.edu.in, rakshagark2003@gmail.com, asanfathima02@gmail.com, dhanushasdk19@gmail.com, hariniak0709@gmail.com$

Abstract- This project provides a comprehensive service combining object detection, text recognition, navigation guidance, and impediment detection for the visibly injured. The system uses the Raspberry Pi as the main controller, computer vision algorithms for object detection, and optical character recognition (OCR) is used to extract text from captured images. Google Maps API makes navigation easier by planning routes and directions. Various sensors, including ultrasonic and MEMS accelerometers, detect obstacles and track user movements. Feedback is provided through conversations produced and reports heard. Reports are sent to expert trainers to increase safety in an emergency. The system is designed to improve the mobility and independence of visually impaired users by providing situational awareness of the environment, aiding navigation, preventing distractions, and providing access to visual information.

Keywords— Computer Vision, OCR, Object detection, Text recognition, Obstacle detection, Navigation guidance

I. INTRODUCTION

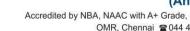
location tracking for precise guidance. Smart canes integrate with fall detection sensors, providing additional safety and convenience. With the user-friendly mobile satety and convenience. With the user-inendly mobile application, visually impaired people can easily access the pointing device and communicate with caregivers or teachers. Also, this project report highlights the importance of the integration of hardware and technology. The software components are seamlessly connected to ensure the program works as a whole. The critical content of the program works as a whole. ensure the program works as a whole. The critical calibration process that ensures product accuracy, read capture, and problem resolution cannot be compromised, and user feedback plays a main part in improving the recovery of these systems. Overall, the exploration of collaboration between collaboration and technological development presented in this document guides out work similar at more difficulties interesting a processing in the collaboration. aimed at providing integrated solutions with key features such as visual assistance, navigation, and tracking, providing greater freedom, and safety for the blind. As we move forward, our goal is to facilitate the continuity of technology services and make a positive impact in improving the lives of the visually impaired.





Ratheesh, Head/Assistant professor, Rakshaga S R, Asan Fathima A, Dhanusha S, and Harini AK, Students, Department Year of Electronics Communication Engineering have published an article titled "AI Based Smart Visual Assistance System for Navigation, Guidance, and Monitoring of Visually Impaired People" in the IEEE 2024 Ninth International Conference on Science Technology Engineering Mathematics (ICONSTEM) 2024 on Iune (Scopus Indexed).









	FOR	SIX MONTHS PRO			ther
	the Superv	eports shall be submitted by the Research leor(s). Please download the Form & Type ant & Supervisor is report to retain a copy	in Bold Letters.	algned by the ca	indidate and countersigned b
ate of Meeting: 13 · 87 · 24 Time: 11:34 Am.			Fee Details (Enclose Copy)		
			Date	Amount	Receipt No.
holar De	talls:		1117124	25,000	520433
• Name		- Mr./Ms. CVRESH. C	Regist	er No: 2-o	2 3 7 9 1102
	Year of Admission: July 200 FACULTY: Computer screene and Engineering				
	Category : FULL TIME / PART TIME (Internal) / PART TIME (External)				
	i Address	Anni Callege & Technology, Residence Address: Candrades Velle			
Mobile	No	: 7397114643	Email	:_ Sures	ninhox 1700 genzil. ce
Supervis	or Details:				
Name	of the Super	rvisor: Dr Sara Vanan M			-
	Address	: sathyabama Instituti		dence Address :	5127
		of cience & Technolog	4	-	
Mobile		: 739711464-638026	612-3 Ema	: _Caravar	un. cre @ sattya bo
Name	of the Joint	Supervisor (if any):			
Official	Address	*	Res	idence Address	
0,110,017,100	71001000				
			Emi	alle	
Mobile					





Mr. Suresh C, Assistant Professor, Department of Computer Science & Engineering, is pursuing Ph.D and submitted six month progress report at Sathyabama University on 13.07.2024 in the domain of Machine Learning.







Faculty Achievement

Tuijin Jishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 45 No. 2 (2024)

Heart Guardian: Tinyml Based Ventricular Arrhythmia Detection for Life Saving Treatment

Ayesha Siddiqua K M ¹, M P Sujatha ², Balaji Madhavan ³, G Praveen Kumar ⁴

¹ Student M.E., Department of Computer Science and Engineering, Agni College of Technology, Chennai, Tamil Nadu India

^{2.4} Assistant Professor, Department of Computer Science and Engineering, Agni College of Technology, Chennai, Tamil Nadu India

³ Head of Department, Department of Computer Science and Engineering, Agni College of Technology, Chennai. Tamil Nadu India

Abstract:- Cardiovascular diseases, notably ventricular arrhythmias, continue to pose a significant threat to global health. Timely detection and intervention are crucial for improving patient outcomes, prompting the development of HeartGuardian—a pioneering solution that leverages TinyML (Tiny Machine Learning) for life-saving ventricular arrhythmia detection through unobtrusive wearable devices. This project introduces a methodologial breakthrough by designing and implementing a highly optimized TinyML model tailored for wearable devices. The model analyses real-time electrocardiogram (ECG) signals directly on the device, achieving a delicate balance between accuracy and resource efficiency. This innovation enables continuous monitoring without imposing substantial power or computational demands, making it feasible for widespread use. Heart Guardian's primary focus is on providing proactive and continuous monitoring to enable early detection of ventricular arrhythmias.







Dr. Balaji Madhavan, HoD, Department of Computer Science & Engineering, Mrs. M P Sujatha & Mr. Praveen Kumar Assistant Professors, Department of Computer Science & Engineering, have published a paper titled, "Heart Guardian: Tinyml Based Ventricular Arrhythmia Detection for Life Saving Treatment" in a Journal of Propulsion Technology.



Fwd: Fw: Shortlisting of your FDP Proposal under ATAL Academy Faculty development Programme Scheme 2024-25 Inbox x





Dr Ishwarya M.V HOD - AI&DS

Jul 13, 2024, 10:10 AM (3 days ago)

From: Ashish Tomar < itc2tlb@aicte-india.org>

Sent: Fri. 12 Jul 2024 17:21:07

To: undisclosed-recipients::

Subject: Shortlisting of your FDP Proposal under ATAL Academy Faculty development Programme Scheme 2024-25

Sir/Madam.

Happy to announce that your proposal to conduct ATAL FDP in the Academic year 2024-25 has been accepted by the Competent Authority after the due screening process.

You are requested to submit details of the Bank account of your institution as per the Google Form latest by 19.07.2024 (Friday) by 4:00 PM, in the following link.

https://forms.gle/cpTQBFTrzDsamHyj6

You may also download the format of the Bank Mandate Form available in Google Form and upload in t updating with signature of the Head of Institute (HoI) and counter verified by the respective bank.

Please make a note that the Basic FDPs are to be conducted for <u>06 Days</u> and Advance FDPs are to be cond brochure and programme schedule should follow the model of FDP format (Basic/Advance as applicable). Any de model programme schedule would make your proposal ineligible for financial support & recognition from AICT stage. It may also be noted that the programme should be free of cost for participants & should mandatorily follow published in the ATAL Webpage for AY 2024-25.



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science received the acceptance for conducting the "ATAL FDP FACULTY DEVELOPMENT PROGRAMME" from AICTE with fund of Three Lakh for AI&DS department for the academic

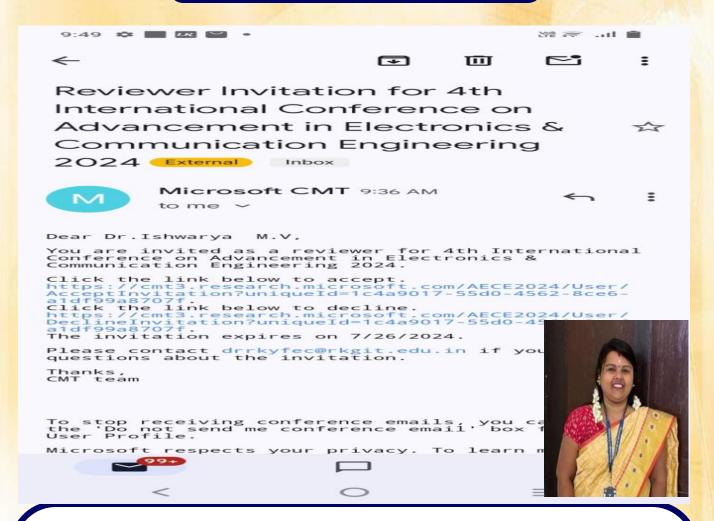
<u>year 2024-2025 on **13**th July **2024.**</u>







FACULTY ACHIEVEMENT



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has been invited as a reviewer for the 4th International Conference on "ADVANCEMENT IN ELECTRONICS & COMMUNICATION ENGINEERING 2024" from MICROSOFT

CMT on 12th July 2024.
BE AN ACTioneer, Aspire To BE the BEST









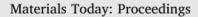
Faculty Achievement

ARTICLE IN PRESS

Materials Today: Proceedings xxx (xxxx) xxx

Contents lists available at ScienceDirect

SEVIER



journal homepage: www.elsevier.com/locate/matpr



Performance analysis of grounding mortars modified with polymeric residue

K. Dhanasekar a,*, S. Vishnuvardhan b, V. Giridhar c, D.V. Tanuja d, S. Kandasamy e, A.V Deepan chakravarthi

- ^a Adi Shankara Institute of Engineering and Technology, Kerala, India
- b Agni College of Technology, Chennai, India
 c K.S.R.M.College of Engineering, Kadapa, India
- PSNA College of Engineering and Technology, Dindigul, India Vel tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai 62, India
- ¹ Velammal College of Engineering and Technology, Madurai, India



Grounding Mortars Polymeric Residue Sustainable Construction Materials Mechanical Strength

ABSTRACT

Polymeric residues, originating from industrial processes such as polymer manufacturing or recycling, present a unique opportunity for integration into construction materials. These residues often pose challenges in disposal due to their non-biodegradable nature, and finding environmentally responsible applications for these materials is crucial. Incorporating polymeric residues into grounding mortars offers a potential solution, addressing both sustainability concerns and potentially improving the mechanical and durability properties of the mortar. This study presents a comprehensive performance analysis of grounding mortars enhanced with polymeric residue, aiming to assess the feasibility and effectiveness of incorporating such residues into traditional mortar formu-lations. Polymeric residues, derived from industrial processes, often pose challenges in disposal and environmental impact. Integrating these residues into construction materials, such as grounding mortars, not only addresses sustainability concerns but also explores potential improvements in mechanical and durability prop erties. The present study aimed to evaluate the technical feasibility of usi

S.Vishnuvardhan. S. Professor. **Assistant Department of Civil Engineering** has published a SCI (Materials Todays: Procedings) iournal "Performance analysis of grounding mortars modified with polymeric residue".







FACULTY ACHIEVEMENT



Mrs. Pandi Deepa.P, Assistant Professor, Department of AI&DS has successfully completed and received the completion certificate for the "Wipro Certified Faculty Program" on JAVA Full Stack conducted by TalentNext from 24th June to 12th July 2024.



FACULTY ACHIEVEMENT



Dhanabhavithra.K

ticipating in the training program on .NET Full Stack conducted by TalentNext from 24- June- 2024 to 12- July-2024



Bibhuti Patnaik General Manager Global Head - Talent Skilling Wipro Limited

Mrs. Dhanabhavithra.K, Assistant Professor, Department of AI&DS has successfully completed and received the completion certificate for the "Wipro Certified Faculty Program" on .NET Full Stack conducted by TalentNext from 24th June to 12th July 2024.







Enhanced Water Security and Resilience in Drought-Prone Zones with IoT and SVM classifier for Early Warning Systems

Publisher: IEEE

Cite This

P. Anandan ; V. Saillaja ; Rajesh Kambattan Kovarasan ; P. Padmaloshani ; Ishwarya M. V ; M. Rajmohan All Authors



Abstract Document Sections I. Introduction II Related Works III. Proposed System IV. Result and Discussion V. Conclusion Authors Figures References Keywords

Abstract:

The worldwide risk of droughts to water security and agricultural sustainability is growing. Using Internet of Things (IoT) technology and a Support Vector Machine (SVM) classifier to create drought-prone early warning systems is an innovative solution to these difficulties. Better water resource management and resilience in water-scarce locations are the study goals. The IoT infrastructure collects real-time data from sensors strategically positioned over the research area to monitor soil moisture, weather, and water levels. SVM classifiers, which are effective in classification, get this large dataset. The SVM model uses data to predict and classify drought events, alerting decision-makers and stakeholders. The system shows that this integrated strategy works. The IoT-SVM early warning system reliably predicts droughts and alerts authorities in advance, enabling proactive mitigation and intervention. The system's drought prediction accuracy helps drought-prone areas achieve water security and resilience by allocating resources, managing water sustainably, and reducing effects on agriculture and people. It uses IoT and machine learning to improve drought preparation and response, improving long-term water sustainability and resilience in water-scarce areas.

Published in: 2024 International Conference on Advances in Modern Age Technologies for Health and Engineerin

(AMATHE)

Date of Conference: 16-17 May 2024

Date Added to IEEE Xplore: 12 July 2024

▶ ISBN Information:

DOI: 10 1109/AMATHE61652 2024 10582083

Publisher: IEEE

Conference Location: Shivamogga, India

Dr. Ishwarya M.V., Associate Professor and Head of the **Department Artificial Intelligence** and **Data Science** presented a paper on "Enhanced Water Security and Resilience in Drought-Prone Zones with IoT and SVM classifier for Early Warning Systems" in the **International Conference on Advances in Modern Age Technologies** for Health and Engineering AMATHE) indexed by SCOPUS on 13th July 2024.

BE AN ACTioneer, Aspire To BE the BEST





FACULTY ACHIEVEMENT

Centre For Research
ANNA UNIVERSITY, CHENNAL

To know your Reference Number

VOU ARE HERE - STATUS

Reference No.
Name
Email
Mobile
Faculty

Information and Communication Engineering

Admission Result & Application Status

Recommended

You have been provisionally selected for admission. However, this selection may be revoked at any point in time if the candidate is found ineligible.

Download Check Slip for Admission (sthe time of admission):

Note:
Keep a close watch on the website further updates.

Mr. Rahul. J, Assistant Professor, Department of Artificial Intelligence and Data Science successfully got admitted for a part time Ph.D at Anna University, Chennai for the Department of Computer Science and Engineering on 13th July 2024.





Mrs. Geetha. T, Mrs Rupavathy Ravi, Assistant Professor, Mrs Harini Balaji, Teaching Assistant of the Department of Artificial Intelligence and Data Science enrolled 5 days FDP on "Problem Solving using Python Programming" conducted by the Department of Computer Science and Engineering. And the session was handled by Dr. Balaji Madhavan., Professor and Head of the Department Computer Science and Engineering on the topic of foundational Programming on 15th July 2024.





FACULTY ACHIEVEMENT



Geetha. T, Rupavathy Ravi, Assistant Professor, Harini Balaji, Teaching Assistant of Department of Artificial Intelligence and Data Science attended the 2nd day FDP on "Problem Solving using Python Programming" handled by Dr. S. Geerthik, Associate Professor, Head of Department Information Technology on the topic of Data types, Expressions and Statements on 16th July 2024.





FACULTY ACHIEVEMENT



Geetha. T, Rupavathy Ravi, Assistant Professor, Harini Balaji, Teaching Assistant of Department of the Artificial Intelligence and Data Science attended the 3rd day FDP on "Problem Solving using Python Programming" handled by Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science on Loops, Control Statement and Functions on 18th July 2024.



FACULTY ACHIEVEMENT



Geetha. T, Rupavathy Ravi, Assistant Professor, Harini Balaji, Teaching Assistant from the Department of Artificial Intelligence and Data Science attended the 4th day FDP on "Problem Solving using Python Programming" handled by Mr G. Praveen Kumar, Assistant Professor, Department of CSE on Loops, Control Statement and Functions on 19th July 2024.





FACULTY ACHIEVEMENT



Geetha. T, Rupavathy Ravi, Assistant Professor, Harini Balaji, Teaching Assistant from Department of Artificial Intelligence and Data Science attended the 5th and final day of FDP on "Problem Solving using Python Programming" handled by Mr G. Praveen Kumar, Assistant Professor, Department of CSE on Files, Modules and Packages on 20th July 2024.



FACULTY ACHIEVEMENT



Mrs. Harini Balaji, Teaching Assistant from the Department of Artificial Intelligence and Data Science received the 3rd prize for performing well in the final day FDP assessment on "Problem Solving using Python Programming" on 20th July 2024.









ww.measiit.edu.in

Department of MCA is organising 5-Day Virtual International Faculty Development Programme on

Exploring New Frontiers in Teaching tools, AI and Data **Analytics**



Day 1: 29th July, 2024
Time: 10.30 AM to 12 PM
Dr. M. V. Ishwarya,
Associate Professor and HOD,
Artificial Intelligence and Data
Science Department,
Agni College of Technology,
OMR, Chennai

Enhancing Education with Artificial ntelligence



Day 3: 3† July, 2024
Time: 10 AM to 11.30 AM
Dr. Adeline Sneha,
Senior Lecturer,
Asia Pacific University of
Technology and Innovation,
Kuala Lumpur, Malaysia

Digital Transformation and Artificial Intelligence



Day 2: 30° July, 2024
Time: 10.30 AM to 12 PM
Dr. R. Devi,
Associate Professor,
Dept. of Information Technology,
VISTAS, VISTAS, Pallavaram, Chennai

Teaching Tools and Techniques



Day 4: 1" August, 2024 Time: 10.30 AM to 12 PM Ms. T. Alamelu, Director of Engineering, IT Development, eShipz,

Emergence of Al in Logistics



Day 5: 2" August, 2024
Time: 10.30 AM to 12 PM
Dr.Poonguzhali S
Assistant Professor,
Department of Computer
Applications, Madanapelle Institute
of Technology and Science, Angallu,
Madanapelle, Andhra Pradesh

Emerging Trends in Data Analytics

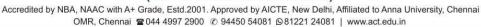


Scan QR to Register Registration link

No Registration Fee

Dr. Ishwarya M.V., Associate Professor and Head of the **Department Artificial Intelligence** and **Data Science** has been invited as a **Resource Person** at MEASI Information Technology for the International "Exploring new Frontiers in Teaching Tools, AI and Data **Analytics"** on **29th July 2024** from **10.30 A.M to 12 P.M.**









Mr. K. Balaji Sundharam, Assistant Professor, Department of Science and Humanities (English) has recognized as the "**Top Performing Mentor**" for the NPTEL Online Certification Course "**Enhancement Soft Skills and Development**" during January – April 2024.







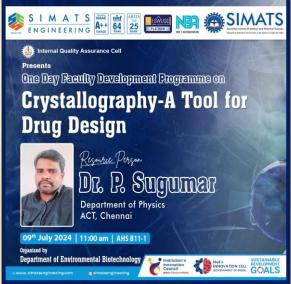
Dr. P. Balakrishnan, Assistant Professor, Department of Science and Humanities (Physics) has recognized as a mentor for the NPTEL Online Certification Course "Enhancement Soft Skills and Development" during January – April 2024.



FACULTY ACHIEVEMENT







Dr. P. Sugumar, Assistant Professor, Department of Science and Humanities (Physics) has delivered the invited talk in the **One day Faculty Development Programme "Crystallography-A Tool for Drug Design"** organized by the Department of Environmental Biotechnology, SIMATS Engineering, SIMATS, Thandalam, Chennai held on 09th July 2024.







Dr. A. Kalaimurugan, Professor, the Department of Electrical and Electronics Engineering has successfully published a Journal Paper titled "Fuzzy Logic Controller – based Intelligent Irrigation System Using Solar Radiation" Indexed in Scopus.







Dr. A. Kalaimurugan, Professor, the Department of Electrical and Electronics Engineering has successfully published a Journal Paper titled" Advancements and Challenges in Solar Radiation Prediction: Review of Machine Learning Approaches" Indexed in Scopus.







FACULTY PUBLICATION



Process Parameter Optimization during the Friction Stir Spot Welding Process

By <mark>R. Pandiyarajan</mark>, S. Sabarish, S. Ponsuriyaprakash

Book Friction Stir Spot Welding

First Published

1st Edition CRC Press

Pages

eBook ISBN 9781003432289



Friction stir welding (FSW) is a kind of pressure welding that happens below the s a form of solid-state welding procedure that resembles FSW in many ways. In friction stir sp (FSSW), Individual spot welds are created by pressing a spinning Instrument vigorously against surface of two sheets that meet at the lap joint. The product material plasticizes as a result of f and high pressure, and the tip of the pin plunges into the joint area between the two sheets, stirring up th oxides. The pin of the tool is pushed into the sheets until the shoulder contacts the surface of the uppe eet. High forging pressure from the shoulder metallurgically bonds the parts without dissolving them. F the production of structures and components with high strength and longevity, the FSSW method is employed in a variety of sectors, which include automotive, aircraft, and maritime. It's critical to optin FSSW process settings to guarantee constant joint quality and compliance with performance requirements Choosing the best possible combination of process factors, such as tool form, rotational speed, plunge depti and tool dwell time, is the goal of optimization. Some of the most popular optimization techniques for FSSW include response surface methodology (RSM), Taguchi method, genetic algorithms, particle swarm optimization, and simulated annealing. It is critical to characterize the FSSW joint to analyze its quality ar stability and ensure that it meets the essential performance standards. FSSW connections can be mechanically and metallurgically characterized using methods such as tension testing, microstructur analysis, hardness testing, metallography, and fractography. Microstructure analysis is used to look at the grain structure, particle size, and dispersion of intermetallic compounds in the joint, while tensile testing is sed to assess the strength and ductility of the FSSW joint. Hardness testing is used to evaluate the hardnes and strength of the joint, and metallography is used to reveal the microstructure of the material. have contributed to the fallure. Overall, optimization and characterization of the FSSW process are critical for

Dr. R. Pandiyarajan, Professor & Head, Department of Mechatronics Engineering has published a scopus indexed book chapter titled **Process Parameter Optimization** during the Friction Stir Spot Welding Process in the book Friction Stir Spot Welding, published by Taylor & Francis

BE AN ACTioneer, Aspire To BE the BEST









Group

FACULTY PUBLICATION



Mrs.D.Selvamarilakshmi, Assistant Professor, the Department of Mechatronics Engineering has published a paper titled **Integrating** Learning for Machine Early Diagnosis and **Prognostic** Assessment of Retinopathy of Premature Babies in the 2024 International Conference Advances in Computing, on **Communication and Applied Informatics (ACCAI)**, published by IEEE, on 25th July 2024.











Mrs. C.D.Karthika, Assistant Professor, the Department of Chemical Engineering has received a Certificate of Registration of Design in respect to the design titled "SMART AIR PURIFICATION SYSTEM FOR ELEVATED INDOOR ENVIRONMENTAL SOLUTIONS".



FACULTY ACHIEVEMENT



Mrs. Geetha. T, Assistant Professor, Department of AIDS has successfully completed and received the completion certificate for 5 day FDP on "Problem Solving Using Python Programming" organized by the Department of Computer Science and Engineering at Agni College of Technology, Chennai, in Association with Prepinsta Technologies. Pvt.Ltd., from15th July to 20 th July 2024.









Accredited by NBA, NAAC with A+ Grade, Estd.2001. Approved by A/CTE, New Delhi, Affiliated to Anna University, Chennal OMR, Chennal ☎ 044 4997 2800 ♥ 94450 54081 № 81221 24081 | www.act.edu.in





OF PARTICIPATION

This is to certify that Mr/Ms/Dr. KupAvathy. R of

AIDS DEPARTMENT, ACT has participated in the 5 Days Faculty Development

Programme on, "Problem Solving using Python Programming" organized by the Department of

Computer Science and Engineering, Agni College of Technology, Chen

Technologies Pvt.Ltd, Noida held between 15/07/2024 to 20/07/2024.

Dr. SRINIVASAN ALAVANDAR

July to 20 th July 2024.

Mrs. Rupavathy. R, Assistant Professor, Department of AIDS has successfully completed and received the completion certificate for a 5 day FDP on "Problem Solving Using Python Programming" organized by the Department of Computer Science and Engineering at Agni College of Technology, Chennai, in Association with Prepinsta Technologies. Pvt.Ltd., from 15th













OMR, Chennai \$044 4997 2900 € 94450 54081 Q 81221 24081 | www.act.edu.in

This is to certify that Mr/Ms/Dr. HARINI BALATI

ALDS DEPARTMENT, ACT

has participated in the 5 Days Faculty Development

PREPIN

Programme on, "Problem Solving using Python Programming" organized by the Department of Computer Science and Engineering, Agni College of Technology, Chennai in assoc

Technologies Pvt.Ltd. Noida held between 15/07/2024 to 20/07/2024.

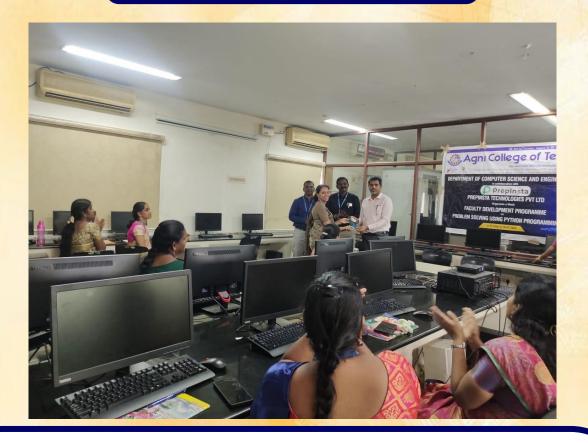
Dr. SRINIVASAN ALAVANDAR PRINCIPAL, ACT

Mrs. Harini Balaji, Teaching Assistant, Department of AIDS

has successfully completed and received the completion certificate for a 5 day FDP on "Problem Solving Using Python" Programming" organized by the **Department of Computer** Science and Engineering at Agni College of Technology, Chennai, in Association with Prepinsta Technologies. Pvt.Ltd., from 15th July to 20th July 2024.



FACULTY ACHIEVEMENT



Mrs. Harini Balaji, Teaching Assistant, Department of AIDS was awarded 3rd prize in the final assessment for 5 day FDP on "Problem Solving Using Python Programming" organized by the Department of Computer Science and Engineering at Agni College of Technology, Chennai, in Association with Prepinsta Technologies. Pvt.Ltd., from 15th July to 20 th July 2024.





.....

FACULTY ACHIEVEMENT



CERTIFICATE OF PARTICIPATION

C.No: 024-218181 Date: 26 Jul 2024

MS. K. DHANABHAVITHRA

Agni College of Technology

has participated in one week Faculty Development Program on

Data Analytics using Python

conducted by ICT Academy on 22 Jul 2024 to 26 Jul 2024 at

Academy of Maritime Education and Training

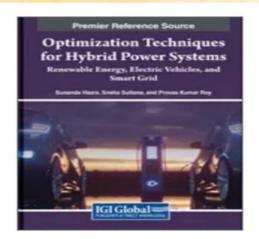




Mrs. Dhanabhavithra, Assistant Professor, Department of AI&DS has successfully completed and received the completion certificate for 5 day FDP on "Data Analytics Using Python" organized by ICT Academy between 22 nd July to 26 th July 2024. Academy of Maritime Education and Training.









Advances in Novel Power Generation Technology and AI Software Tools

M. Lakshmi, M. Rajkumar, B. Dhanasakkaravarthi, S. Saravanan, J. Ramya, Sampath B.

Source Title: Optimization Techniques for Hybrid Power Systems:

Renewable Energy, Electric Vehicles, and Smart Grid

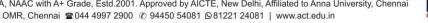
Copyright: © 2024

Pages: 29

DOI: 10.4018/979-8-3693-0492-1.ch019

Dr.Dhanasakkaravarthi ,Associate Professor ,
Department of Mechanical Science , has published a book
on the title "**Optimization Techniques for Hybrid Power Systems** " in Advance in Novel Power Generation
Technology and AI Software Tools at IGI Global on July
2024.







Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, served as the resource person at MEASI Institute of Information Technology for the International FDP, a 5 day Virtual International Faculty Development Programme on Exploring New Frontiers in Teaching tools, AI and Data Analytics. Held on July 29, 2024. The FDP was interactive and successful.

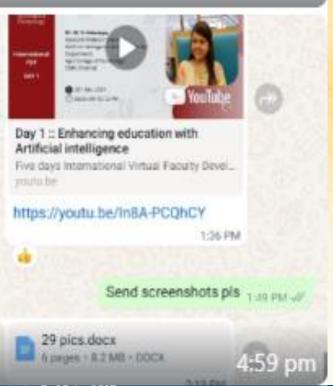


Gallery









BE AN ACTioneer, Aspire To BE the BEST





4:59 pm





FACULTY PARTICIPATION



The following award is given to

ARUN M

Assistant Professor, Agni College of Technology

Who has participated in the One Week Faculty Development Programme on "Deep Learning and IOT Driven Smart Applications" organized by Department of Computer Science and Engineering, MLRIT from 24th - 29th June, 2024.





Dr Ajmeera Kiran Co-Ordinator



Dr Allam Balaram Convenor & HoD CSE



Dr K Srinivas Rao Principal, MLRIT







FACULTY PARTICIPATION



, Assistant Professor ,Department Mechanical Science, has Participated in the One Week Faculty Development Programme "Data Analytics using **Python"** organised by the **ICT Academy** from 10th 2024 to 14th Jun 2024 at Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College.







FACULTY PARTICIPATION



Ms.Archana S., AP/EEE, has participated in a Five Day Faculty Development Program on "Effective Proposal Writing for Extramural Funding & Patentability of Ideas and Design" organized by IQAC, Department of Research and Consultancy and the IPR Cell from 2nd July to 6th July 2024,





FACULTY PARTICIPATION



Mrs.Remya O C, AP/ EEE, has participated in a Five Day Faculty Development Program on " Effective Proposal Writing for Extramural Funding & Patentability of Ideas and Design" organized by IQAC, the Department of Research and Consultancy and the IPR Cell from 2nd July to 6th July 2024,





FACULTY PARTCIPATION

BE AN ACTioneer, Aspire To BE the BEST



Agnı College of Technology



(An AUTONOMOUS Institution)

Accredited by NBA, NAAC with A+ Grade, Estd 2001. Approved by AICTE, New Delhi, Affiliated to Anna University. Chennai OMR, Chennai 2044 4997 2900. (7) 94450 54081. © 81221 24081. www.act.edu.in









This is to certify that Mr/Ms/Dr._

E. YUVANASHREE

CME DEPARTMENT, ACT

has participated in the 5 Days Faculty Development

Programme on, "Problem Solving using Python Programming" organized by the Department of Computer Science and Engineering, Agni College of Technology, Chennai in association with Prepinsta Technologies Pvt.Ltd, Noida held between 15/07/2024 to 20/07/2024.

Dr. SRINIVASAN ALÁVANDAR PRINCIPAL, ACT Janoh Azurda

Mr. MANISH AGARWAL
Director and Co-Founder
PREPINSTA TECHNOLOGIES PVT LTD

Dr.E.Yuvanashree, Assistant Professor, Department of Chemical Engineering has participated in the Five Days Faculty Development Programme on "**Problem Solving using Python Programming**" Organized by the Department of Computer Science and Engineering, Agni College of Technology, Chennai in association with PrepInsta Technologies Pvt Ltd., Noida held between 15.07.2024 to 20.07.2024.

BE AN ACTioneer. Aspire To BE the BEST







INSTITUTION'S INNOVATION COUNCIL N. 5 · D · C



FACULTY PARTICIPATION





CERTIFICATE

OF APPRECIATION

is awarded to

DHANASAKKARAVARTHI B

AGNI COLLEGE OF TECHNOLOGY

CHENNAI, TAMIL NADU



in recognition of his/her role as mentor for the NPTEL Online Certification course

INSPECTION AND QUALITY CONTROL IN MANUFACTURING





Mentees Enrolled	Mentees Present	Score (in %) <40	Certified (Score in %)				
			40-59	60-74	75-89	>=90	Toppers
9	3	0	1	2	0	0	0

PROF. ANDREW THANGARAJ

NPTEL Coordinator

IIT Madras

Dr.Dhanasakkaravarthi B , ASP of the Department of Mechanical Science , has received a Certificate of Appreciation for his role as mentor for NPTEL Course Inspection and Quality Control in Manufacturing for 9 mentees enrolled









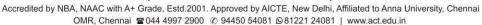
FACULTY PARTICIPATION





Mrs. Bilna C and Ms. Himali Barman, Assistant Professors, Department of Biomedical Engineering, participated in the "Faculty Development Programme (FDP)" titled "The Modern Integrated Anesthesia Workstation" on 19th July 2024 organised by the International fovea-Z Biomedical Association under the leadership of ATHEENAPANDIAN PRIVATE LIMITED.



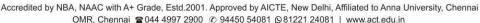


FACULTY PARTICIPATION



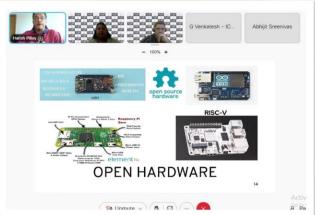
Mrs. R. Kala Rani, Assistant Professor, Department of Computer Science and Engineering has attended the five days Physical Faculty Development Program titled "Microsoft Power BI Data Analyst Associate" at Avichi College of Arts & Science, virugambakkam, chennai organized by ICT ACADEMY.



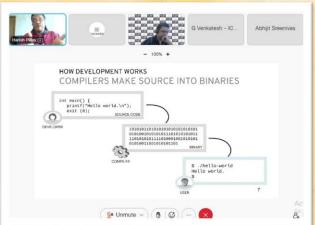






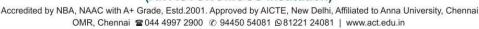






Dr. Balaji Madhavan, Head, Department of Computer
Science & Engineering, has attended the 5th edition of the
Thought Leaders Talk Series on the topic, "Open Source
Future Prospects" by the ICT Academy on 10th July
2024.









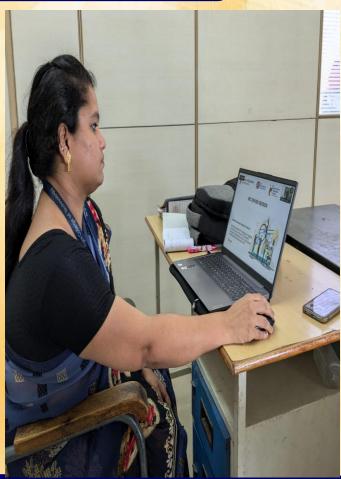
Mr. M. Arun and Mr. K. Saravanan, Assistant Professors in the Department of Mechanical Science, participated in a 5-day Faculty Development Programme on 'Problem Solving using Python Programming,' organized by the Department of CSE at Agni College of Technology in association with Prepinsta Technologies Pvt. Ltd., from July 15th to July 20th, 2024







Guiding Framework for Creating and Engaging
Trained Faculty Innovation Ambassadors
Guiding Framework for Creating and Engaging Trained
Faculty and Student IIC Members Innovation Ambassadors



Mrs. Pandi Deepa, Assistant Professor in the Department of AI & DS, attended the meeting on MIC-Driven Activities for Quarter IV of IIC 6.0 (2023-2024). This meeting was held on July 29, 2024, at 11:00 am, focused on the guiding framework for creating and engaging trained faculty and student IIC members, Innovation Ambassadors (IA) in IIC institutions, and the rewarding mechanisms for IAs.









e-Certificate of Recognition

This is to certify that Prof/Dr/Mr/Ms Revathi K , AP/CSE Agni College of Technology , has actively participated in "ONE DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON AI TOOLS FOR TEACHING" organized by Star International Foundation for Research

and Education on 22.06.2024



Dr.S. Sekar Founder / Managing Trustee

Certificate ID HWOBAE-CE000121

Mrs. Revathi K, Assistant Professor, Department of Computer Science and Engineering has attended the FDP titled, "One Day Online Faculty Development Program on AI Tools for Teaching", organized by Star International Foundation for Research and Education.





. I I I Networking cisco Academy

Certificate of Course Completion

revathi kannan

has successfully achieved student level credential for completing the Introduction to Data Science course.

The student was able to proficiently:

- Explain the promises and challenges of data analytics
- Explain the role of data in Al and Machine Learning
- Explore different options to obtain a career in Data Analytics







Vice President and General Manager Cisco Networking Academy

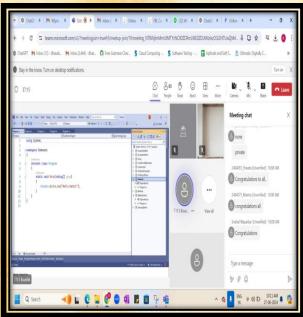
Revathi K, Assistant Professor, Department of **Computer Science and Engineering** has attended the online course titled, "Introduction to Data Science", organized by the Cisco Networking Academy.











Mrs. G. Veni, Mrs. P. Manju, Mrs. A. Suganya and Mr. C. Suresh Assistant Professors Department of Computer Science and Engineering have completed 2 weeks of Wipro Certified Program (WCF) for the courses JAVA & .NET FULL Stack by Wipro TalentNext 2024 through online mode.







Mrs. Kalarani R, Assistant Professor, Department of Computer Science and Engineering has participated in five days FDP tiled, "Microsoft Power BI Data Analyst Associate", organized by ICT Academy from 8th July to 12th July 2024.







Dr. Binu Clara J, Assistant Professor from the Department of Biomedical Engineering has participated in the Pre-conference workshop titled Hands on Training on "Haematology- Blood Analysis Techniques" on 19th July 2024 conducted by Meenakshi Academy of Higher Education and Research as part of the "National Conference on Emerging Trends in Healthcare and Multidisciplinary Studies











Mrs. Prinslin L, Assistant Professor, Department of Computer Science and Engineering has participated in two days online FDP titled, "Global race for AI Dominance", organized by Sri Krishna College of Engineering & Technology from 27th June to 28th June 2024.













Mrs. G. Veni & Mrs. P. Manju, Assistant Professors, Department of Computer Science and Engineering have completed the Wipro Certified Program and got certificate for the course .NET FULL Stack conducted by Wipro TalentNext 2024 from 24th June 2024 to 12th July 2024.

















Mrs. A. Suganya and Mr. C. Suresh, Assistant Professors, Department of Computer Science and Engineering have completed the Wipro Certified Program and got certificate for the course JAVA FULL Stack conducted by Wipro TalentNext 2024 from 24th June 2024 to 12th July 2024.









Mrs. Prinslin L, Assistant Professor, Department of Computer Science and Engineering has attended a five days Faculty Development Program titled, "Data Analytics using Python", at AMET University, Chennai organized by ICT ACADEMY from 22nd July 2024 to 26th July 2024.









Mrs. Uma Devi G, Assistant Professor, Department of **Computer Science and Engineering** has attended online Webinar titled, "Quantum Horizons: Revolutionizing **healthcare with Quantum Computing",** organized by Presidency University in association with the IEEE student chapter, on 17th July 2024.





FACULTY PARTICIPATION



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Ramapuram

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. P.BALAKRISHNAN

ASSISTANT PROFESSOR

AGNI COLLEGE OF TECHNOLOGY, CHENNAI

has actively participated and completed in Six days Online International Faculty Development Program on "Harnessing Artificial Intelligence for Healthcare Excellence: Innovations, Insights and Impacts" organized by the Department of Biomedical Engineering from 24th – 29th June 2024.

DR.USHUS.S.KUMAR

DR.K.V.NARAYANAN DEAN (E&T)

Dr. P. Balakrishnan, Assistant Professor, Department of Science and Humanities (Physics) has participated Six days Online International Faculty Development Program on "Harnessing **Excellence: Artificial** Intelligence for Healthcare **Innovations, Insights and Impacts**" organized by Department of Biomedical Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai, From 24th -29th





FACULTY PARTICIPATION



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
Ramapuram

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr.SUGUMAR PARAMASIVAM

ASSISTANT PROFESSOR

of AGNI COLLEGE OF TECHNOLOGY

has actively participated and completed in Six days Online International Faculty
Development Program on "Harnessing Artificial Intelligence for Healthcare
Excellence: Innovations, Insights and Impacts" organized by the Department of
Biomedical Engineering from 24th – 29th June 2024.

DR.USHUS.S.KUMAR

DR.K.V.NARAYANAN DEAN (E&T)

Dr. P. Sugumar, Assistant Professor, Department of Science and Humanities (Physics) has participated Six days Online International Faculty Development Program on "Harnessing Artificial Intelligence for Healthcare Excellence: Innovations, Insights and Impacts" organized by the Department of Biomedical Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai, From 24th -29th June 2024.







FACULTY PARTICIPATION



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
Ramapuram

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

Dr. S. SWATHI

This is to certify that ASSISTANT PROFESSOR

of AGNI COLLEGE OF TECHNOLOGY

has actively participated and completed in Six days Online International Faculty Development Program on "Harnessing Artificial Intelligence for Healthcare Excellence: Innovations, Insights and Impacts" organized by the Department of Biomedical Engineering from 24th – 29th June 2024.

DR.USHUS.S.KUMAR

DR.K.V.NARAYANAN DEAN (E&T)

Dr. S. Swathi, Assistant Professor, Department of Science and Humanities (Physics) has participated Six days Online International Faculty Development Program on "Harnessing Artificial Intelligence for Healthcare Excellence: Innovations, Insights and Impacts" organized by the Department of Biomedical Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai, From 24th - 29th June 2024.





FACULTY PARTICIPATION



Mr. K.Ganesh Kumar, Assistant Professor, Department of Mechatronics Engineering has participated in a five day FDP on "IoT and Semi Conductors – Synergies and Future" organized by the Department of ECE & Department of EEE at KCG College of Technology" from 08th July to 12th July 2024.









Ms. Indu S, Ms. Jennifer J, and Ms. Yogalakshmi S, Assistant Professors, of the Department of Biomedical Engineering, have participated in the 5 days Faculty Development Programme on "Problem-Solving using Python Programming" organised by the Department of Computer Science and Engineering, Agni College of Technology, Chennai in association with Prepinsta Technologies Pvt Ltd., Noida held between 15th – 20th July. Ms. Indu has won 1st prize in the assessment.

















University of Agricultural Sciences, Bangalore Centre of Excellence on Watershed Management



CERTIFICATE OF PARTICIPATION

This is to certify that GANESH KUMAR K Assistant professor Agni College of Technology has participated in the webinar on "Soil Carbon Footprints to Identify Climate-Smart Soils for Carbon Trading" organized by the Centre of Excellence on Watershed Management, University of Agricultural Sciences, Bangalore under the World Bank supported REWARD program on July 15, 2024.



Centre of Excellence on Watershed Management University of Agricultural Sciences, Bangalore

Kumar, Assistant Professor, Mr. K.Ganesh Department Mechatronics Engineering has participated in the webinar on "**Soil Carobon Footprints to Identify Climate - Smart Soils for Carbon** Trading" organized and certified by the Centre of Excellence on Watershed Management, University of Agricultural Sciences, **Bangalore** on 15th July 2024



Work Integrated Learning(WIL) Gallery



Visited kumaran systems, siruseri



Met Swetha - HR of Think semi Infotech Pvt. Ltd., Siruseri



Met Martina of Paysmart payment technologies Pvt., Ltd., Perungudi



visited RelevantZ



FCC Cluch manufacturing Pvt ltd



Visited Hexaware

Mr. R. Kannan, Mr. G. Praveen Kumar, Mr. C. Suresh Assistant Professors, Department of Computer Science and Engineering have visited few companies as part of WIL (Work Integrated Learning) coordination.



Students Achievement







DINESH KUMAR D L



JAYAVARSHINI V S



GURUSAMY M

Mr. Aadharsh A, Mr. D.L.Dinesh Kumar, Mr. Gurusamy M & Ms. Jaya varshini V S Final year students(2020-2024 batch), Department of Computer Science & Engineering have got placed in "Tata Consultancy Services" as Software Engineer with CTC of 3.5 LPA.



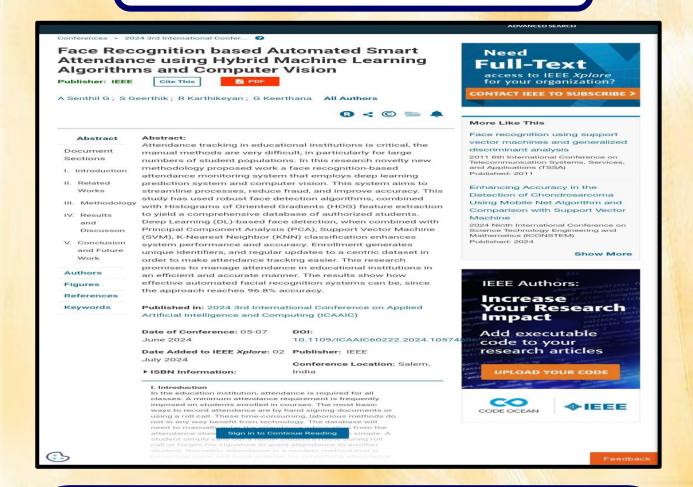
FACULTY & STUDENT ACHIEVEMENT



G.Karthick and R.Lavanya final year students along with faculty members Dr.S.Geerthik & Dr.G.A.Senthil of Information Technology Department have published a paper titled "Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision" in the IEEE 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC).



FACULTY & STUDENT ACHIEVEMENT

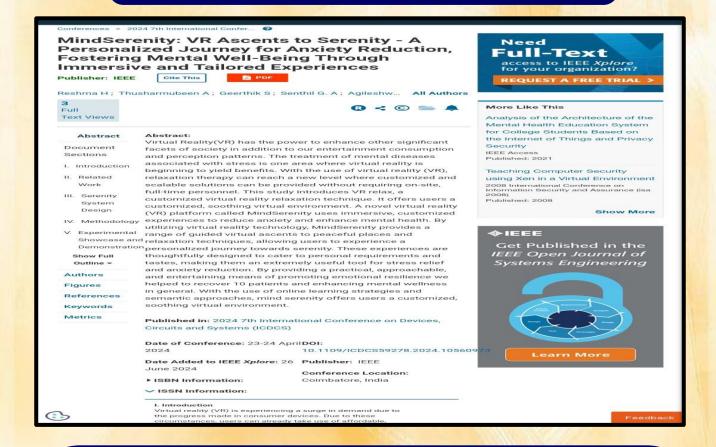


R.Karthikeyan and G.Keerthana final year students along with faculty members Dr.S.Geerthik & Dr.G.A.Senthil of Information Technology Department have published a paper titled "Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision" in the IEEE 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC).





FACULTY & STUDENT ACHIEVEMENT



Agileshwaran J and Thusharmubeen A final year students along with faculty members Dr.S.Geerthik & Dr.G.A.Senthil of Information Technology Department have published a paper titled "MindSerenity: VR Ascents to Serenity - A Personalized Journey for Anxiety Reduction, Fostering Mental Well-Being Through Immersive and Tailored Experiences" in the IEEE 2024 7th International Conference on Devices, Circuits and Systems (ICDCS).

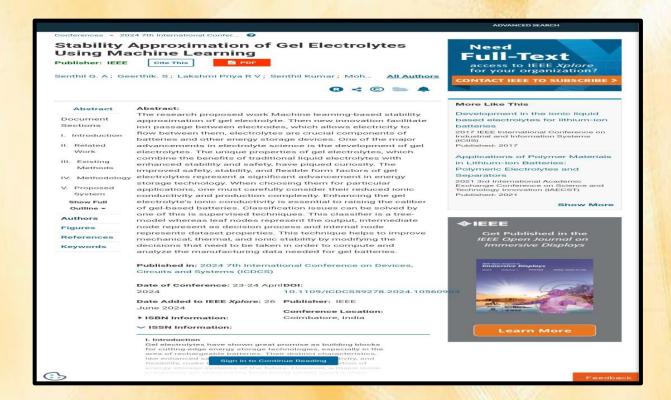








FACULTY & STUDENT ACHIEVEMENT



Senthil Kumar and Mohan S., final year students along with faculty members Dr.S.Geerthik & Dr.G.A.Senthil of Information Technology Department have published a paper titled "Stability Approximation of Gel Electrolytes Using Machine Learning" in the IEEE 2024 7th International Conference on Devices, Circuits and Systems (ICDCS).







STUDENT ACHIEVEMENT





Mr. B. Joel Jacob student of II year CSE has won the II prize with cash reward under the guidance of Ms. M.P. Sujatha AP/CSE in the BIS Exposure Quiz Competition conducted by the Bureau of Indian Standards as part of Manak Manthan program at the Raj Park Hotel, Chennai.



STUDENT ACHIEVEMENT

accenture





Mr. Jenani sudhakar, Final year, Department of Computer Science & Engineering has got placed in "Accenture" as an App Development Associate with CTC of 4.5 LPA.





STUDENT ACHIEVEMENT

ennVee





Mr. Jabez Victor Raj, Final year, Department of Computer Science & Engineering has got placed in "ennVee solutions Pvt. Ltd" as a Data & Artificial Intelligence Engineer with CTC of 3LPA.







STUDENT ACHIEVEMENT



Ms. Mrithula V (2019-2023 Batch), Department of **Computer Science & Engineering** has graduated with **13**th **Rank** in the **April/May 2023** Anna university Examinations and scored a **CGPA** of **9.38**.





STUDENT ACHIEVEMENT



Keerthana D, Mathumitha V and Kaviyanjali B from the Department of Information Technology have secured **Anna University Rank I, VI and XXII** during April/May 2023 Examinations.



STUDENT ACHIEVEMENT



The final year students Tamilarasan, Muthukumaran, Vishali, Karuppaiya from the department of Information Technology have attended Niral Thiruvizha funded project: Final review at Anna University Guindy campus on 27-06-2024. Project titled "An Integrated Chatbot Platform for Precision Agriculture and Farmer Support: Agribot" guided by Nivi V, Assistant Professor, IT and this project was granted Rs.10,000 fund.



STUDENT ACHIEVEMENT











Mokeshwar P, Narayanan G, Aravind G, Hassan Mohammed, Karthikeyan K of final year students from the Department of Artificial Intelligence and Data Science are doing an Internship with Ashok Leyland, Ennore Plant for the project "Tableau Dashboard with SQL as the background database" mentored by Dr. Ishwarya M.V., Associate Professor and Head of the AI&DS Department from 11th July to 11th August 2024.









STUDENT ACHIEVEMENT



Anna University examinations results for April/May 2024 were published on July 18th, 2024. The **Final Year students** from the Department of **Mechatronics Engineering** have achieved 100% results.







STUDENTS PARTICIPATION









The Second year students Indhu. A, Ramakrishnan. N, Queen Blessy. Y and Sunandha. B from the Department of Chemical Engineering have participated in the "4th International Conference on Waste, Energy and Environment-ICWEE-2024" Organized by the Centre for Waste Management, Sathyabama Institute of Science and Technology, Chennai during 03.07.2024 - 05.07.2024.







Internship



Ms. Geethalakshmi, Ms. Harshini, Ms. Kanishka, Ms. Pushpapriya, and Ms. Rajab Fathima, third-year students from the Department of Civil Engineering, are undergoing an internship at Larsen & Toubro Limited, Porur, Chennai, from July 11, 2024 to August 11, 2024.





INTERNSHIP

Certificate ID: ARDENT/108482
Date of Issue: 14th June 2024



Online Summer Internship Programme (OSIP -2024)

20th May 2024 to 14th June 2024

Indian Institute of Chemical Engineers

Dr. H. L. Roy Building, Jadavpur University Campus, Kolkata- 700 032

CERTIFICATE OF COMPLETION

This certificate is hereby awarded to

S.J.FARRIS MOHAMMED

from AGNI COLLEGE OF TECHNOLOGY

who has successfully completed the INTERNSHIP PROGRAMME on the subject

CHEMICAL PROCESS TECHNOLOGY following all necessary criteria of the Institute

with "A+" Grade.

Grading System:

A+ : 75% & Above A : 65% - 74% B : 55% - 64% Dr. Avijit Ghosh Coordinator OIP, IICHE Mr. Dhawal Saxen

Mr. Dhawal Saxena Member, BOD, IIChE-TI Registrar, IIChE

The Second year student **S.J. FARRIS MOHAMMED**, Department of Chemical Engineering, has successfully completed the **INTERNSHIP PROGRAMME** on the subject "Chemical Process Technology" and secured "A+" Grade in **Online Summer Internship Programme (OSIP-2024)**, Indian Institute of Chemical Engineers, from 20.05.2024 to 14.06.2024.









INTERNSHIP

Certificate ID: ARDENT/108700
Date of Issue: 21st July 2024



Online Summer Internship Programme (OSIP -2024)

25th May 2024 to 21st July 2024

Indian Institute of Chemical Engineers

Dr. H. L. Roy Building, Jadavpur University Campus, Kolkata- 700 032

CERTIFICATE OF COMPLETION

This certificate is hereby awarded to

HARINI SHREE T S

_

from _____AGNI COLLEGE OF TECHNOLOGY

who has successfully completed the INTERNSHIP PROGRAMME on the subject

PETROLEUM REFINERY ENGINEERING following all necessary criteria of the Institute

with " A " Grade.

Grading System:

A+ : 75% & Above A : 65% - 74% B : 55% - 64%

Dr. Avijit Ghosh Coordinator OIP, IICHE

Mr. Dhawal Saxena Member, BOD, IIChE-TI Registrar, IIChE

Mand Janeur

The Second year student T.S. Harini Shree, Department of Chemical Engineering, has successfully completed the INTERNSHIP PROGRAMME on the subject "Chemical Process Technology" and secured "A" Grade in Online Summer Internship Programme (OSIP-2024), Indian Institute of Chemical Engineers, from 20.05.2024 to 14.06.2024.

BE AN ACTioneer, Aspire To BE the BEST



OMR, Chennai 2044 4997 2900 @ 94450 54081 @81221 24081 | www.act.edu.in







INTERNSHIP



The Second year student **T.S. Harini Shree**, Department of Chemical Engineering, has successfully completed her Inplant Training in Kothari Petrochemicals Limited, Manali, Chennai from 26.06.2024 to 06.07.2024.





Internship



Ms. Geethalakshmi, Ms. Harshini, Ms. Kanishka, Ms. Pushpapriya, and Ms. Rajab Fathima, third-year students from the Department of Civil Engineering, are undergoing an internship at Larsen & Toubro Limited, Porur, Chennai, from July 11, 2024 to August 11, 2024.



RESEARCH ACT

AI&DS



Dr. Ishwarya M.V., Associate Professor and Head of the Department Artificial Intelligence and Data Science conducted the Research Meeting with all the department faculty and discussed the Research and Funding Proposal work to be carried out for the year 2024-2025. Also, faculties were assigned as in charges for the same. The following agenda items were discussed in the meeting on 13th July 2024:

- **SERB** Seminar Symposia, International Travel Support
- TNSCST Seminar, ICSSR







A MONTHLY NEWSLETTER

RESEARCH ACTIVITIES

AI&DS



Mrs. Rupavathy Ravi, Assistant Professor, of the Department Artificial Intelligence and Data Science has been assigned for the research activity on Seminar/International Travel Support Funding proposal on SERB for the academic year 2024-2025.





RESEARCH ACTIVITIES

AI&DS



Mrs. Amala Preyadarchane. J, Assistant Professor, of Department Artificial Intelligence and Data Science has been assigned for the research activity on ICSSR Funding proposal(student & Staff) from TNSCST for the academic year 2024-2025.





PREPLACEMENT ORIENTATION PROGRAM





Pre-Placement orientation program was scheduled for final year students of the Department of Artificial Intelligence and Data Science through virtual mode by MulticoreWare India (P) Ltd. Dr. Ishwarya M.V., Associate Professor and Head of the Department Artificial Intelligence and Data Science, Mrs. Amala Preyadarchane. J, Assistant Professor, Rupavathy Ravi, Assistant Professor of Al&DS department joined the orientation program on 24th July 2024 from 10.30 A.M 11.30 A.M.



DEPARTMENT POOJAI





As the customary tradition of starting anything with God's grace and blessing, the Department of Science and Humanities has organized a Department Poojai for the extraordinary performances of students in their second semester. The poojai was conducted in the Physics lab on 10.07.2024. Dr. Arul Kulandaivel, HoD, all the subject-handling faculty members, and the students from each section attended the poojai. All the members prayed for the best results and remarkable achievements to be attained in the semester examinations.



GALLERY



















GALLERY



















GALLERY

















DEPARTMENT NBA FILE REVIEW



Dr Sureka N, Assistant Professor, Head of the Department of Biomedical Engineering conducted the NBA file review on 1st July 2024 and instructed the faculties to complete their file works before the deadline.





DEPARTMENT MEETING



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, conducted the department meeting with all AIDS staffs and welcomed new staffs. The following agenda items were discussed in the meeting on 09th July 2024:

- Daily, Weekly, Monthly and Quarterly coordinators of Dept
- **IQAC** and Governing Body In Charges
- Mentorship
- Work Integrated Learning
- Stock verification.





DEPARTMENT MEETING





Dr. Balaji Madhavan, Head, Department of **Computer Science & Engineering,** convened a department meeting on **1**st **JULY, 2024**. The agenda included discussions on planning of PYTHON FDP, reopening dates for upcoming academic year, Governing body council meeting preparations, question bank creation and general activities of the department.



DEPARTMENT MEETING



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, conducted the department meeting with all AIDS staffs. The following agenda items were discussed in the meeting on 22nd July 2024:

- Stock verification
- Lab exams for 2nd years
- Data sheets collecting from students







DEPARTMENT MEETING



Mr. Beaula Jasmine. R, HoD, Department of Civil Engineering, convened a department meeting on JULY 19 th, 2024 between 12:00 pm - 12.30 pm. The agenda included discussions on Department Laboratory Stock verification, course file preparation, course activity plan, AU practical exam conduction, additional responsibilities and general activities of the department.



STOCK VERIFICATION OF

CIVIL DEPARTMENT





Dr. Ishwarya M.V., Associate Professor and Head of the Department Artificial Intelligence and Data Science, Mrs. Amala Preyadarchane. J, Assistant Professor, Rupavathy Ravi, Assistant Professor of AI&DS department conducted the Stock verification process successfully for the department of Civil Engineering on 24th July 2024.





STOCK VERIFICATION





Mrs. Beaula Jasmine, Head of the Department of Civil Engineering has conducted the Stock verification process successfully in the presence of **Dr. P. Murugan**, Head of the Department of Chemical Engineering along with respective Laboratory In charges on 25th July 2024.





DEPARTMENT STOCK VERIFICATION





Dr. N. Sureka, Head, Department of Biomedical Engineering, visited and verified all the Mechatronics Lab facilities, equipment, and classroom facilities according to the Stock Register on 24th July 2024.



STOCK VERIFICATION





Dr. P. Murugan, Associate Professor & Head, of the Department of Chemical Engineering, visited the Department of Biomedical Engineering for **Laboratory Stock Verification** in the presence of Dr. Sureka N, Assistant Professor and Head, and Lab In-charge of the Department of Biomedical Engineering on 25th July 2024. All the Equipment and Instruments in the laboratories were checked and verified.





STOCK VERIFICATION



Dr. M.V. Ishwarya, Head of the AIDS Department, has verified the stock of the Civil Engineering Department in the presence of Mrs. R. Beaula Jasmine, Head of the Civil Department, along with the respective laboratory incharges.



DEPARTMENT NBA REVIEW



The Biomedical Engineering Department NBA coordinator, Dr J Binu Clara, Assistant Professor along with Ms Nithiya R., Assistant Professor and Dr. Sureka N, Assistant Professor, HOD Biomedical Engineering, did the NBA file review on 27th July 2024.





DEPARTMENT MEETING





Dr. Balaji Madhavan, HoD, Department of Computer Science & Engineering, convened a department meeting on JULY 24th, 2024 between 9.30 am - 11.00 am. The agenda included discussions on completion of FDP, Lab manuals for 2024-2025, course file preparation, course activity plan, AU practical exam conduction, final subject allocation, additional responsibilities and general activities of the department.







DEPARTMENT MEETING





Dr. R. Pandiyarajan, Head, Department of Mechatronics Engineering has convened a department meeting on 23rd July 2024 in the presence of all the faculty members and discussed academics, allocation of laboratory in charges, readiness of laboratories in terms of software and lab manuals, NBA files, workload, and preparation of course files.





Department Meeting



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, conducted the department meeting with all the faculty members of AIDS. The following agenda items were discussed in the meeting on 29th July 2024:

- Faculty handling training modules were advised to conduct training effectively.
- Schedule for external placement training for the final year students.
- Registration of eligible students for the upcoming **GATE** examinations.

Regarding Alumni meet planned on 31st August





Department Meeting



- Proper informed leave and biometric punctuality of faculty was discussed
- All events and achievements to be covered in the newsletter.
- Good count requirement of students participation and winnings in national-level competitions
- The requirement for a substantial number of students to participate and win in national-level competitions was discussed.
- The stock verification process was discussed



DEPARTMENT MEETING



Mr. Beaula Jasmine. R, HoD, Department of Civil Engineering, convened a department meeting on JULY 19 th, 2024 between 12:00 pm - 12.30 pm. The agenda included discussions on Department Laboratory Stock verification, course file preparation, course activity plan, AU practical exam conduction, additional responsibilities and general activities of the department.



DEPARTMENT MEETING



Mr. Beaula Jasmine. R, HoD, Department of Civil Engineering, convened a department meeting on JULY 29 th, 2024 between 8:30 am – 9.30 am. The agenda included discussions about Training and placement, Pride activities and preparedness for the upcoming academic year 2024-2025 Odd semester.





Mentoring Session



Mrs. Vinodha E., Assistant Professor in the Department of Civil Engineering, has mentored second-year students, explaining the importance of the NPTEL Examination and motivating them to enroll for the July-December 2024 session.



