

SKCET

Buzz

21st December - 23rd December 2024



Editor-in-Chief

Dr. K. Porkumaran
Principal

Co-Editor

Dr.S.Venkata Lakshmi - AI & DS

Editorial Team

Mr.J.Dhiyaneswaran - MECH

Dr.M.Diwakaran - IT,

Mr.G.S.Pugalendhi - AI & DS,

Mrs.S.Mary Fabiola - S&H,

BUZZ DEPARTMENT COORDINATORS



Mr.G.S.Pugalendhi	B.Tech Artificial Intelligence & Data Science	Mr. R. Sarath Kumar	B.E Electronics and Communication Engineering
Dr. S. Deepa Kamani	B.Tech Information Technology	Dr. S.Balamurugan	B.E Mechanical Engineering
Mr. R. Vignesh	B.E Civil Engineering	Ms. R. Priyadharshini	B.E Mechatronics Engineering
Mr. Sreeraj S Nair	B.E Computer Science and Design and M.Tech Computer Science and Engineering	Ms. Mary Ani Reka	B.E Computer Science and Engineering (Cyber Security) and B.Tech Computer Science and Business Systems
Dr. V. K. Reshma	B.E Computer Science and Engineering	Dr. T. Anitha	Department of Science & Humanities
Mr. R. Kavim	B.E Electrical and Electronics Engineering	Dr. R. Suyam Praba	Master of Business Administration (MBA)

STUDENT COORDINATORS

R.A. Kaniga	B.Tech Artificial Intelligence and Data Science, Third Year
V. Vasusundhan	B.Tech Artificial Intelligence and Data Science, Second Year, Section B
R. Raja Gopal	B.E Mechanical Engineering, Second Year, Section A



INSIDE THIS ISSUE

- ❖ **INSTITUTIONAL EVENTS** : PG 04 - 20
 - ❖ **HACKATHON ACCOLADES** : PG 21 - 22
 - ❖ **STUDENT PROGRESSION** : PG 23 - 25
 - ❖ **EVENTS** : PG 26 - 32
 - ❖ **PLACEMENT AND TRAINING** : PG 33 - 35
 - ❖ **RESEARCH AND DEVELOPMENT** : PG 36 - 37
 - ❖ **FACULTY CERTIFICATIONS** : PG 38 - 41
- 



SKCET

Buzz



INSTITUTIONAL EVENTS



Follow us
@

#skcetofficial

#skcetofficial

#skcet

#skcetofficial

Feedback @
skcetbuzz@skcet.ac.in

SKCET | HONORING OUR VISIONARY FOUNDER



SKCET family reverently honored, **Shri S. Vankatram Sir**, our visionary founder on his Birth anniversary, with profound respect and heartfelt gratitude who laid the foundation for excellence.

SKCET | ALUMNI MEET



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited by NAAC with A++ Grade
Kuniamuthur, Coimbatore - 641008.

Phone : (0422)-2678001 (7 Lines) | Email : info@skcet.ac.in | Website : www.skcet.ac.in

SKCET Alumni Association

proudly welcomes the

First Batch Alumni of SKCET

for the

Silver Jubilee Alumni Meet : Sustaining Legacies, Shaping Futures



21st December, 2024 @ 10:00 AM

Venue: Convention Centre

For Registration: <https://forms.gle/gEmJYqWNJy88Xsvv8>



SKCET | ALUMNI MEET



The alumni of the 1988 batch reunited to celebrate and relive the cherished moments of their unforgettable college days.

SKCET | ALUMNI MEET



Something's never changes and when it comes to the Alma mater, the emotions remain as fond as ever!

Dr. V. Ragavi, Dean of Student Affairs and Head of the Science and Humanities Department, delivered the Welcome Address to the SKCET alumni, who reunited to relive cherished memories.

SKCET | ALUMNI MEET



The Alumni Meet at SKCET was graced by the Presidential Address delivered by **Dr.Sundararaman, CEO,SKI** who captivated the audience with an inspiring and heartfelt speech. Reflecting on the incredible achievements of the alumni, Sir emphasized their vital role as the Institution's ambassadors and torchbearers.

SKCET | ALUMNI MEET



The Alumni Meet witnessed an inspiring start as our esteemed **Principal Dr.K.Porkumaran** delivered a remarkable inaugural address. Sir, set the perfect tone for a memorable and impactful reunion, leaving everyone inspired to uphold the legacy of excellence.

SKCET | ALUMNI MEET



"Success is not just about reaching heights; it's about staying rooted to where it all began."

The event was enriched by the inspiring words and valuable insights shared by prominent alumni. **Mr.S. S. Vignesh**, Managing Partner, TIPCO & TIFCO, MECH Alumni Batch (2003-2007) Executive Member, SKCET Alumni Association. **Mr. S. Thamarai Kannan**, Managing Partner, Blue Lord Inc. Business Consultant, Dsource, EEE Alumni Batch (2002-2005) Secretary, SKCET Alumni Association. They shared heartfelt reflections on their journey, highlighting SKCET's pivotal role in shaping their careers and emphasizing the significance of perseverance, innovation and lifelong learning.

SKCET | ALUMNI MEET



The Alumni Meet at SKCET witnessed a moment of pride and joy as the **Principal** felicitated the distinguished alumni for their unwavering commitment to excellence and their continued association with the Institution.

SKCET | ALUMNI MEET



The Alumni made a remarkable contribution by gifting a State-of-the-art **Kiosk machine**, valued at approximately **Rs. 1.50 lakhs**, covering everything from sourcing to seamless installation. This generous gesture stands as a testament to their unwavering commitment to giving back and enhancing the campus infrastructure.

SKCET | CHRISTMAS CELEBERATION



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited by NAAC with A++ Grade
Kuniamuthur, Coimbatore - 641008.
Phone : (0422)-2678001 (7 Lines) | Email : info@skcet.ac.in | Website : www.skcet.ac.in



MERRY CHRISTMAS

JOIN WITH US FOR A SKCET
FESTIVE FIESTA AS WE BRING
THE TIDINGS AND TINSEL OF
THE YULETIDE MAGIC OF
CHRISTMAS AND NEW YEAR 2025

21st December, 2024 @ 03:00 PM
Venue: Convention Centre



SKCET | CHRISTMAS CELEBRATION



Glad Tidings of Great Joy at SKCET

It's never too late to celebrate Christmas, the festival of joy, hope, peace and Love. On this note the festive celebrations was set in motion with an array of Colorful events.

SKCET | CHRISTMAS CELEBRATION



Principal Sir shared the theme message of Christmas and conveyed his New year greetings.

SKCET | CHRISTMAS CELEBRATION



Christmas cakes symbolises a ritual of Christmas Celebration, specifically the act of sharing.

To mark the significance of Sharing, a cake cutting was organized. **Principal sir** along with the Academic Leadership Team and the student's fraternity shared the cakes and their warm greetings.

SKCET | CHRISTMAS CELEBRATION



To kick-start the Christmas season in style with timeless charm, students and faculty embraced the festive spirit through a delightful medley of carols. The celebration radiated joy and praise, highlighted by a heartfelt and collaborative nativity scene presented by the students.

SKCET | CHRISTMAS CELEBRATION



Blasting of Santa's Sleigh!

SKCET | CHRISTMAS CELEBRATION



The celebration concluded with the distribution of cakes to all students and faculty members. With joy in their hearts and hope in their minds, everyone looked forward to a bright and promising New Year!

SKCET

Buzz



**HACKATHON
ACCOLADES**



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback@
skcetbuzz@skcet.ac.in

EEE | STUDENT ACCOLADE



Dr. K. Porkumaran, Principal, SKCET appreciated the **exceptional achievements** of two EEE teams for their outstanding performances in prestigious competitions:

1. **Team Spartans** secured **First Place in the IEEE Eu-reka 2024 Competition**, organized by the IEEE Pune Section. Their remarkable innovation and dedication earned them a Cash Prize of ₹25,000/-.

2. **Team Creed**, participants of the **SIH 2024 Grand Finale**, showcased exceptional technical skills and problem-solving abilities on a **highly competitive national platform**. Dr. K. C. Ramya, HoD/EEE, along with the faculty mentors - **Dr. S. Sivaranjani, Ms. R. Geethamani** and **Dr.T.Kokilavani** were also part of the meet, sharing their pride and extending their encouragement to the students. Both the teams were commended for their **hard work, commitment, and exemplary representation of the Institution** on renowned stages. They were also encouraged to continue participating in future competitions and to reach greater heights of success.

SKCET



Buzz

**STUDENTS
PROGRESSION**



Follow us
@

#skcetofficial

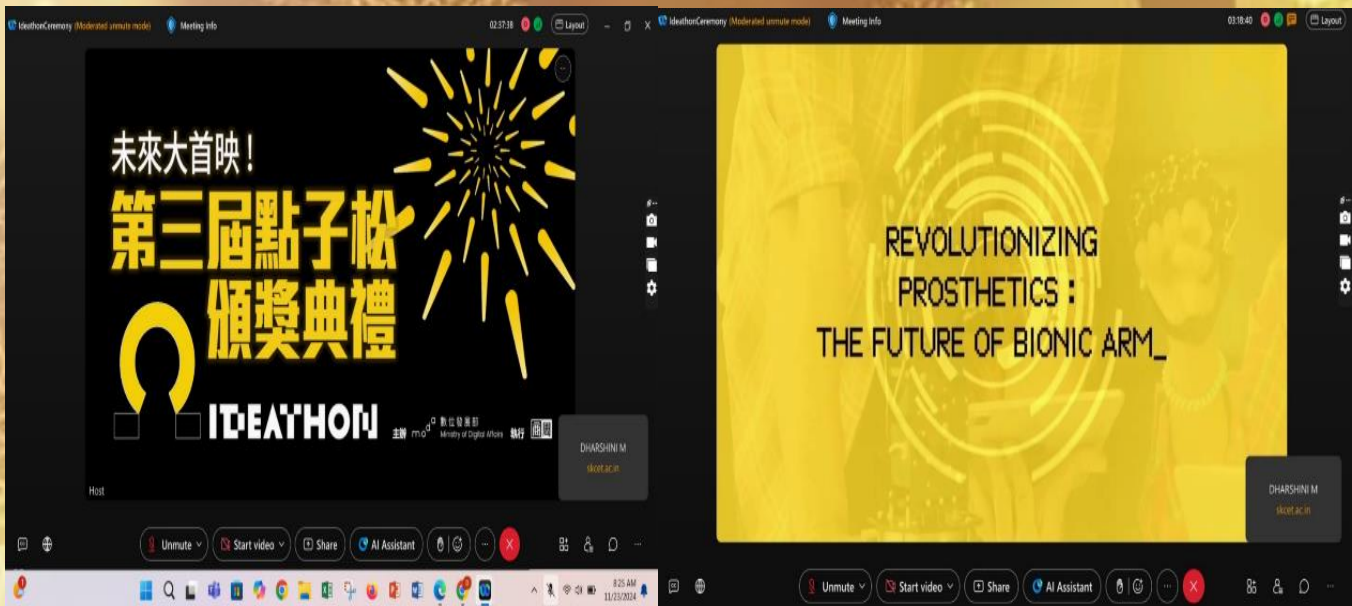
#skcetofficial

#skcet

#skcetofficial

Feedback@
skcetbuzz@skcet.ac.in

ECE | GOLDEN IDEA AWARD



Third year student **Dharshini M** from Department of **ECE** has secured "**Golden Idea Award**" in the prestigious "**Taiwan Third Ideathon 2024 Competition**", organized by the "**Ministry of Digital Information Technology, Taiwan**" with a **Cash Prize of 110000\$** to the equivalent **Indian Rupees of 2,86,000** (2,24,961 after tax deduction).

The Ministry of Digital Information Technology call for submissions ran from 29th March to 15th July 2024 (113 in Taiwan). A total of 3,215 submissions were collected, including 685 International entries from India, Malaysia, South Korea and Singapore. 100 "Idea Award" works were selected through preliminary selection in sequence, and 30 "Good Idea Award" works were selected through secondary selection. By matching experts in Innovation and Entrepreneurship, Future Design, and related fields, from the 30 "Good Idea Award" works after deepening the concept, 10 works for the "Golden Idea Award" were selected through a final selection.

Faculty Mentor

Ms.U.Vanitha, AP/ECE

Mentor from MODA – Ministry of Digital Affairs:

Mr. Ben Lin, Business strategic consultant | facilitator | Trainer. Coach| Helping business owners| LGB limited company- Feng Chia University- Taipei city – Taiwan

ECE | OUTSTANDING STUDENT VOLUNTEER AWARD



Akash S, IEEE Student Branch Chair of Sri Krishna College of Engineering and Technology (IEEE STB 61261), has received the prestigious IEEE India Council Awards - Outstanding Student Volunteer Award. The award was presented by **Dr. Debabrata Das**, Chair of IEEE India Council. This recognition celebrates his exceptional dedication and remarkable contributions to volunteering within IEEE. The award ceremony took place at IIT Kharagpur, West Bengal, on December 20, 2024, during the INDICON 2024 Conference, a highly anticipated National event recognizing excellence and talent.

SKCET

Buzz



EVENTS



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback@
skcetbuzz@skcet.ac.in

AI & DS | INDUSTRY CONNECT PROGRAM



Dr S Venkata Lakshmi, Professor & PC, **Dr T Sujatha**, Associate Professor, **AI&DS** Department attended MiPhi AI Summit on 19.12.2024 in Dwayfarer Inn, Erode. The Team was headed by **Mr Prasad Balakrishnan**, Chief Operating Officer, MiPhi.

Session Takeaways:

- Skill Development Initiatives of AI
- Research Funding opportunities of AI mission
- Live Demo
- Data Storage in Cloud
- Curriculum Refinement Support and Lab setup rendered
- Future of AI in Education

CSBS | ASSOCIATION INAUGURATION SYSTRON



Department of **CSBS** inaugurated **CSBS Association - 'SYSTRON'** and organized an Expert talk on “**Emerging Patterns in the Industry across multiple Specialization**” on 20.12.2024. The Chief Guest **Mr. R. Senthil Kumar, Founder & CEO, Halcyon Ventures & Co Founder - Miraturus, Coimbatore** conferred the Office Bearers of CSBS Association for the academic year 2024-25 with badges and also released the first edition of the **Magazine**.

Session Takeaways:

- Digital Shift: AI, automation, and data-led strategies dominate.
- Sustainability Focus: ESG and green technologies gain traction.
- Evolving Skills: Hybrid roles and lifelong learning are key.
- Customer-Centricity: Personalized, seamless experiences lead innovation.

CSBS | INDUSTRIAL LECTURE SERIES



Department of **CSBS** hosted an **Industrial Lecture Series** on “**Importance of Data and How it Plays a Role in Business**” for second-year students on December 19, 2024.

Speaker: Mr. Dhanesh P.K., CEO of I-BACUS-TECH and Program Director at Glam, Bangalore, led the lecture.

Session Takeaways:

- Data-Driven Decision Making
- Unlocking Business Value
- Overcoming Data Challenges
- Transforming Business Operations
- Data-Driven Innovation
- Preparing for a Data-Driven Future

The interactive session provided students with valuable insights into the transformative power of data in driving business success.

IT | INDUSTRIAL LECTURE SERIES



Department of IT organized an Industry Lecture Series on **Software Test Automation with Selenium** for **Second** year students on December 21, 2024.

Resource Person: Mr. S.Krishnamoorthy, Project Manager and Automation Architect, Cognizant Technology Solutions, Coimbatore led the lecture.

Session Takeaways

- Introduction to Software Testing
- Challenges in Software Testing
- Agile Methodologies
- Automation with Devops
- Need for Open Source Automation tool- Selenium
- Importance of Maven Repository
- GenAI Solutions in Automation Testing
- Demo on usage of Cucumber Framework in Selenium for Automation Testing

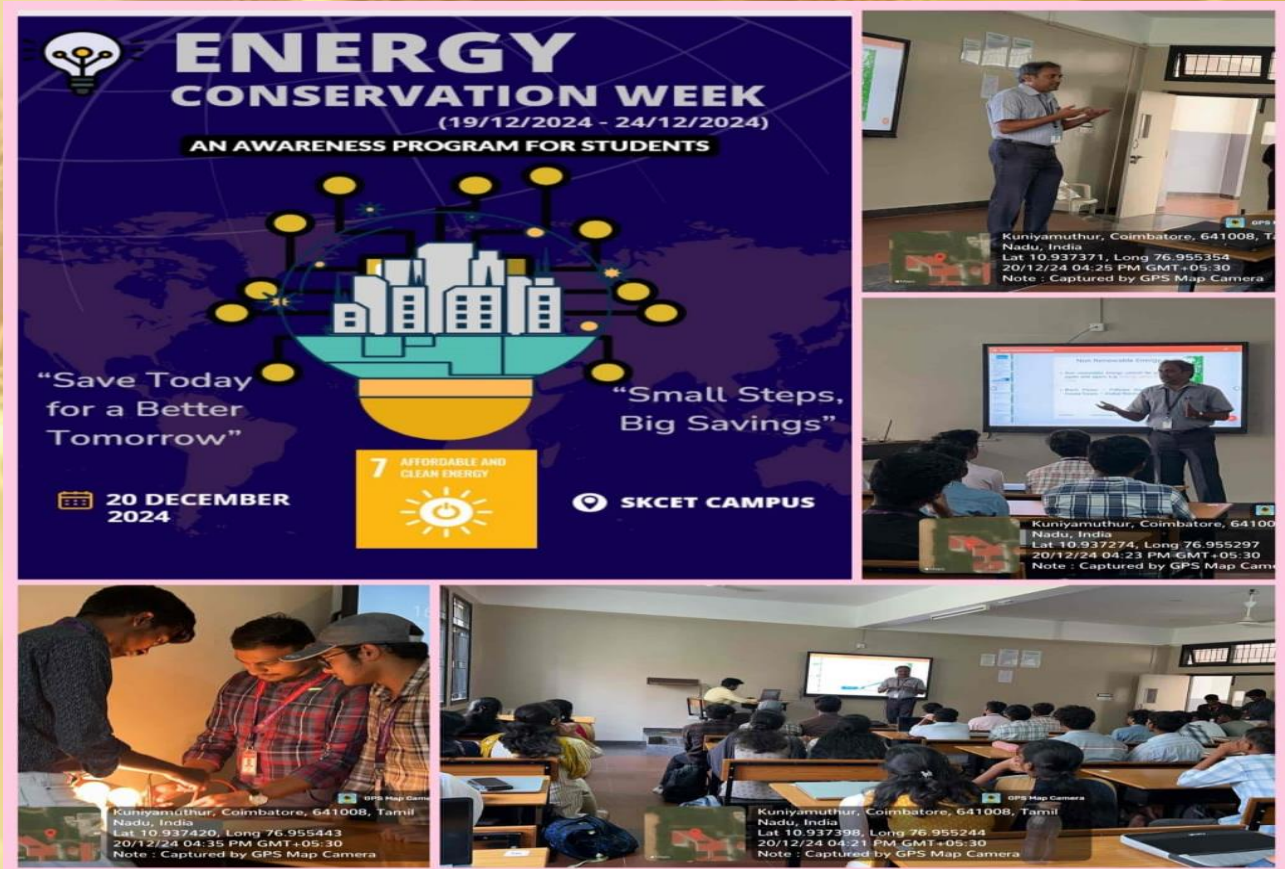
ECE | INDUSTRIAL LECTURE SERIES

Department of **Electronics and Communication Engineering** organized an Industrial Lecture series on "**Recent Trends and Technologies in Automotive Electronics**" for Second year ECE students on December 21, 2024 at BS-03 seminar Hall

Resource Person: Mr. Sekhar Reddy, Principal Software Engineer Visteon, Coimbatore

The Session Takeaways were: Transformation of vehicles from traditional systems to advanced electronic systems, Impact of digitalization, electrification and automation on automotive sector, significance of CAN systems in facilitating efficient and reliable communication between electronic control units (ECUs) and the need for robust security measures to protect automotive systems.

EEE | ENERGY CONSERVATION WEEK CELEBRATION 2024



Department of Electrical and Electronics Engineering, in collaboration with **Energy Audit Cell (EAC)**, organised 'Energy Conservation Week' from 19.12.2024 to 23.12.2024. The programme commenced with an insightful session on the topic '**Awareness on Energy Conservation in our Regular Life**' featuring a live project demonstration on Standby Power Mode. This hands-on approach effectively highlighted the practical aspects of energy conservation in daily life for EEE Students.

Session Speaker: Dr. B.Karthikeyan, Associate Professor, EEE

Key Highlights of the Session:

- Optimizing the use of household appliances.
- Minimizing energy consumption by turning off lights and fans, when not in use.
- Advantages of using 5-star-rated electrical appliances.
- Understand Eco-friendly practices and encourage a sustainable future.
- Effects of over-reliance on non-renewable energy sources.
- Promoting Green Production for a sustainable future.

SKCET



PLACEMENT AND TRAINING



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback@
skcetbuzz@skcet.ac.in

SKCET | PLACEMENT TESTIMONIAL

I am **Harinee M D**, a final-year student of **Computer Science and Business Systems** at Sri Krishna College of Engineering and Technology (SKCET). My time at SKCET has been an enriching and transformative experience, providing me with countless opportunities to develop both academically and personally. The college played a crucial role in helping me secure offer from Relanto.ai paving the way for a bright and promising career. One of the most remarkable aspects of SKCET is its ability to create a perfect blend of academics, practical learning, and holistic development. The structured approach to learning, combined with expert-led sessions, hands-on projects, and industry exposure, has equipped me with the knowledge and skills required to excel in today's competitive world. The training for placements, including mock interviews, technical skill enhancement, and soft skill development, has been instrumental in boosting my confidence and performance. SKCET nurtures talent and fosters a culture of excellence. The dedicated faculty, the vibrant campus environment, and the relentless support from the placement team have made my journey here truly rewarding. The college has encouraged me to challenge myself, embrace innovation, and work towards achieving my dreams. I am immensely thankful to my parents and to myself for choosing such a wonderful institution like SKCET. It has provided me with a solid foundation and a path to success that I will cherish forever. I am proud to be a part of this esteemed institution, which has been a guiding light in shaping my career and future.



HARINEE M D,
CSBS
Relanto.ai

SKCET | PLACEMENT TESTIMONIAL

I am **Premnath Sundar** from **Electronics and Communication Engineering** department belonging to 2021 - 2025 batch. I joined as a lateral entry student in Sri Krishna College of Engineering and Technology, Coimbatore in 2022. The library and well-maintained environment are the first benchmark of the college. I had an opportunity to establish good friends, industry contacts and participate in workshops and technical trainings at SKCET. Being guided by experienced teachers enhanced my knowledge about ECE. SKCET provides opportunities and freedom to display our talent. The placement team of SKCET supports students by providing a brighter career path. Making use of the technical and aptitude training provided from 2nd year of my college days helped me achieve a placement in Zoho. I would say that I am happy for choosing SKCET to pursue my education and would sincerely like to thank my parents, all subject handling faculties and staff, the HOD, Dean Placement and placement team and our honourable Principal for providing me a hand at every stage.

PREMNATH S
ECE
ZOHO



SKCET

Buzz



RESEARCH AND
DEVELOPMENT



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback@
skcetbuzz@skcet.ac.in

R&D | PAPER PUBLICATION | ECE

Ad Hoc Networks 166 (2025) 103679

Contents lists available at ScienceDirect

Ad Hoc Networks

ELSEVIER

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

Residual multiscale attention based modulated convolutional neural network for radio link failure prediction in 5G

Ranjitham Govindasamy^{a,*}, Sathish Kumar Nagarajan^b, Jamuna Rani Muthu^c, M. Ramkumar^d

^a IITC, Sri Krishna College of Engineering and Technology, Coimbatore 641008, Tamil Nadu, India
^b IITC, Sri Ramakrishna Engineering College, Coimbatore 641022, Tamil Nadu, India
^c IITC, Sona College of Technology, Salem 636005, Tamil Nadu, India

ARTICLE INFO

Keywords: Radio link failure prediction; Radio access networks; 5G networks; Modulated convolutional neural network; Specificity

ABSTRACT

In the realm of the 5G environment, Radio Access Networks (RANs) are integral components, comprising radio base stations communicating through wireless radio links. However, this communication is susceptible to environmental variations, particularly weather conditions, leading to potential radio link failures that disrupt services. Addressing this, proactive failure prediction and resource allocation adjustments become crucial. Existing approaches neglect the relationship between weather changes and radio communication, lacking a holistic view despite their effectiveness in predicting radio link failures for one day. Therefore, the Dynamic Arithmetic Residual Multiscale attention-based Modulated Convolutional Neural Network (DARMMCNN) is proposed. This innovative model considers radio link data and weather changes as key metrics for predicting link failures. Notably, the proposed approach extends the prediction span to 5 days, surpassing the limitations of existing one-day prediction methods. In this, input data is collected from the Radio Link Failure (RLF) prediction dataset. Then, the distance correlation and noise elimination are used to improve the quality and relevance of the data. Following that, the usort tern optimization algorithm is used for feature selection, which contributes to link failures. Next, a multiscale residual attention modulated convolutional neural network is applied for RLF prediction, and a dynamic arithmetic optimization algorithm is accomplished to tune the weight parameter of the network. The proposed work obtains 79.83 % accuracy, recall, and F1 score, which are better than existing techniques. The analysis shows that the proposed scheme is appropriate for RLF prediction.

1. Introduction

Mobile communications networks progress through generations, with every iteration bringing significant advancements in efficiency, and Quality of Service (QoS). After transitioning from Third Generation (3G) to Fourth Generation (4G) systems, the industry is now moving towards Fifth Generation (5G) networks. The focus of these new generations, including 5G and beyond, is on uninterrupted service and seamless connectivity, alongside improvements in speed, latency, data rate, energy efficiency, and mobility. Artificial Intelligence (AI) is pivotal in shaping these future communication networks, enhancing customer experiences across diverse applications and services [1–3]. Continuity of service without interruptions is a critical aspect of user experience in telecommunications. Radio links play a vital role in connecting base stations to the core network across diverse topologies [4]. As 5G and future networks evolve, denser deployments of radio links are necessary to achieve high data rates and ultra-low latencies. This requires robust wireless connections that operate reliably in various weather conditions to ensure uninterrupted service and deliver an excellent customer experience [5–8].

Weather-related phenomena like cloud cover, rain, and snow significantly impact the performance of radio links, particularly affecting backhaul links operating at GHz frequencies [7]. With the anticipated heavy utilization of high-frequency bands in next-generation mobile networks, the sensitivity to weather conditions will become more pronounced. This heightened sensitivity underscores the importance of ensuring robust radio link connections that withstand various weather challenges to maintain uninterrupted service [9–10].

Mobile operators invest heavily in continuous network monitoring to detect link failures and quickly adjust configurations, minimizing

* Corresponding author.
 E-mail addresses: ranj_g@skcet.ac.in (R. Govindasamy), msk20022002@gmail.com (S.K. Nagarajan), jamuna2003@gmail.com (J.R. Muthu), ramkumar0906@gmail.com (M. Ramkumar).
<https://doi.org/10.1016/j.adhoc.2024.103679>
 Received 11 June 2024; Received in revised form 2 August 2024; Accepted 27 September 2024
 Available online 1 October 2024
 1570-8705/© 2024 Elsevier B.V. All rights are reserved, including those for text and data mining, AI training, and similar technologies.

Dr.G.Ranjitham, Associate Professor, Department of ECE, has published SCI and Scopus indexed Journal titled “Residual multiscale attention based modulated convolutional neural network for radio link failure prediction in 5G” in the Journal, Ad Hoc Networks.

R&D | PAPER PUBLICATION | EEE

Dr.J.Karthika, Professor, Department of EEE has published a paper entitled on “Multi view consistent generative adversarial network for enhancing intrusion detection with prevention systems in mobile ad hoc networks against security attacks” in Journal of Computers & Security. It is indexed in SCI & Scopus journal with an impact factor of 4.8. <https://doi.org/10.1016/j.cose.2024.104242>

12/12/24, 12:14 PM Multi-view consistent generative adversarial network for enhancing intrusion detection with prevention systems in mobile ad hoc networks

Computers & Security

Multi-view consistent generative adversarial network for enhancing intrusion detection with prevention systems in mobile ad hoc networks against security attacks

Abstract

Improving security in Mobile Ad Hoc Networks (MANETs) requires an effective intrusion detection and prevention scheme that addresses some research issues, such as energy efficiency, detection rate, false positive rate. However, many existing solutions have faced challenges in achieving accurate detection rates while minimizing execution time and energy consumption. In this manuscript, a Multi-View Consistent Generative Adversarial Network for Enhancing Intrusion Detection with Prevention Systems in MANET Against Security Attacks (EIDS-MANET-MVCGAN) is proposed. Initially, the mobile users are registered in Trusted Authority under the Way Hash Chain Function. The intrusion detection is executed using four entities. In the packet analysis, it is verified regarding if any attack is identified or not. The implementation is done in Type 2 Fuzzy Controller that takes data through packet header. The collected data is fed to improved genetic K-means clustering for data normalization. Then it is applied to the feature extraction using Multi-Scale Ternary Pattern Mutual Information to extract the optimum set of features for packets classification. During classification, Multi-View Consistent Generative Adversarial Network (MVCGAN) is used for packets classification as Dns, Probe, Udp, Rst, Normal. To improve the accuracy of the method, five basic optimization algorithms (HGA) is used. The proposed EIDS-MANET-MVCGAN method attains 11.88 %, 22.73 %, 16.82 % better accuracy when compared with the existing models. Adaptive Marine Predator Optimization Algorithm, Deep Supervised Learning Classification dependent Intrusion Detection Scheme for MANET Security (EIDS-MANET-IDS), An Intrusion Detection Scheme utilizing Exponential Henry Gas Solubility Optimization based Deep Neural Fuzzy Network in MANET (EIDS-MANET-DSNF) and Adaptive Activation Functions along Deep Recursive Neural Network optimized with Bear Search Search Algorithm to prevent Cyber security attacks in MANET (EIDS-MANET-ADSN) respectively.

Access through your organization

Check access to the full text by logging in through your organization.

Section snippets

1. Introduction

A type of wireless self-organizing network is a MANET where mobile nodes are interconnected by wireless connections (Singh and Vajda, 2023). In MANET, every mobile node in the network has the capability to act as a router, facilitating communication among other nodes (Rishad and Sene, 2022; Prasad, 2022). Due to their open medium, distributed collaboration, changing topologies, and limited capabilities, MANETs are vulnerable to the security flaws (Venkatesh and Krishna, 2022). To address the

Literature survey

A number of researchers have presented on deep learning based intrusion identification, among them, a few researches are reviewed here. Swaid et al. (2024) have introduced EIDS-MANET Safety utilizing Adaptive Marine Predator Optimization Algorithm, Deep Supervised Learning Configuration (ADM-IDS). The cyber-attack datasets were progressed with the help of min-max normalization. ADM was implemented to select the optimal features. Additionally, the IDS mechanism was applied to characterize ...

Proposed methodology

This section discusses about the proposed EIDS-MANET-MVCGAN method. The flowchart of the EIDS-MANET-MVCGAN is depicted in Fig. 1.

The block figure of EIDS-MANET-MVCGAN system demonstrates a cohesive integration of various units crucial for efficient intrusion identification with prevention in MANETs. The process initiates with data acquisition, where raw packet data is collected from diverse nodes within the network. These packets are fed into the packet analysis unit, where sophisticated ...

Result and discussion

The experimental outputs of EIDS-MANET-MVCGAN technique are delineated here. The simulation is performed in PC using Intel Core i5, 2.50GHz CPU, 8GB RAM, Windows 7. The EIDS-MANET-MVCGAN approach is simulated in Python using the mentioned metrics. The acquired results of EIDS-MANET-MVCGAN technique are analyzing to the existing EIDS-MANET-IDS (Srivani et al., 2024), EIDS-MANET-DSNF (Rishad, 2022) and EIDS-MANET-ADSN (Chamugan et al., 2024) methods respectively. ...

Conclusion

In this paper, Intrusion Detection with Prevention Scheme in MANET against Safety Attacks using Optimized MVCGAN was successfully implemented. The stage of a single-way hash chain prevents intrusions. The packet analyzer assisted to find regarding if the intrusions happened in intrusion detection. The progress of data acquisition is conducted to pre-processing unit. The optimal features are extracted for following step in feature extraction unit that is categorization. MVCGAN helps to upgrade ...

CRD47 authorship contribution statement

M. Rajam: Writing – original draft; **Karthika:** Supervision; **S. S. Abhinav:** Supervision. ...

SKCET

Buzz



**FACULTY
CERTIFICATIONS**



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback@
skcetbuzz@skcet.ac.in

AI & DS | ATAL FACULTY DEVELOPMENT PROGRAM



Mr.Senthil Kumar S, Assistant Professor of **AI&DS** has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “**Emerging Trends in Wearable Device and The Future of Healthcare**” at **SNS College of Technology** from **09/12/2024** to **14/12/2024**.

AI & DS | INFOSYS CERTIFICATION

Mr.Senthil Kumar S, Assistant Professor of **AI&DS** has successfully completed a course on “**ML Algorithms: Multivariate Calculation & Algorithm**” at **Infosys Spring Board** on **05.12.2024**.



IT | ATAL FACULTY DEVELOPMENT PROGRAM



Mrs. Vizhiyarasi S, Assistant Professor - IT has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **Responsible AI** at **PSG College of Technology** from **09/12/2024** to **14/12/2024**.

ECE | ATAL FACULTY DEVELOPMENT PROGRAM



Dr C Thirumarai Selvi, Professor and Ms D Devi , Assistant Professor of Department of **ECE** have successfully completed ATAL academy Faculty Development program on **“Responsible AI”** at **PSG College of Technology, Coimbatore** from **09.12.2024** to **14.12.2024**.

ECE | INFOSYS CERTIFICATION



Ms N Nanthini, Assistant Professor, Department of **ECE** has received completion certificate for the courses **“Python Foundation Certification”**, **“Programming Fundamentals using Python” (Part 1& 2)** from Infosys Springboard