



INNOVATE • CONNECT • INSPIRE

Volume No

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01

WAVES

IGNITING IDEAS. EMPOWERING FUTURES.

ELECTRONICS & COMMUNICATION ENGINEERING



TECHNOLOGY

Exploring Innovations
Shaping Tomorrow



COMMUNICATION

Connecting Minds
Beyond Boundaries



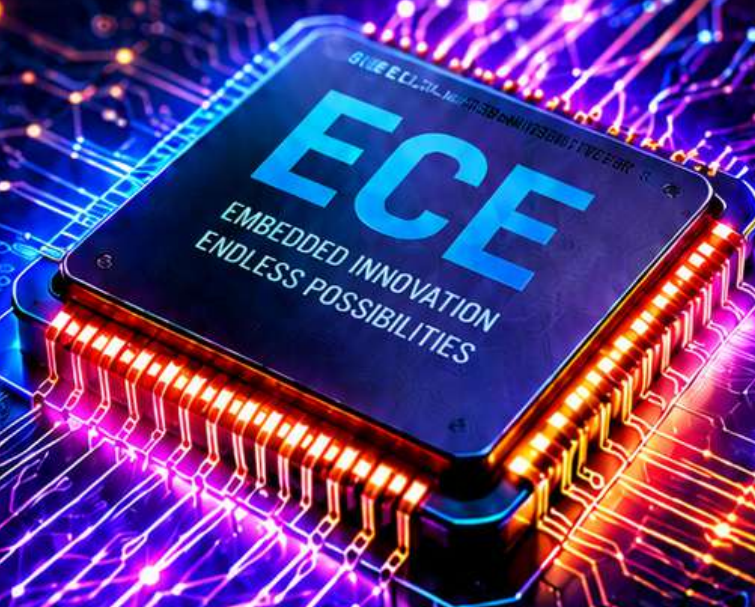
INNOVATION

Ideas Today
Impact Tomorrow



ACHIEVEMENT

Celebrating Talent
and Success



ACADEMIC
EXCELLENCE



RESEARCH &
DEVELOPMENT



STUDENT
ACTIVITIES



ACHIEVEMENTS
& AWARDS



PLACEMENTS
& TRAINING

SANTHIRAM ENGINEERING COLLEGE

NANDYAL



SANTHIRAM ENGINEERING COLLEGE

Department of Electronics &
Communication Engineering

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SANTHIRAM ENGINEERING COLLEGE

Department of Electronics &
Communication Engineering



EDITORIAL BOARD

Editor-in-Chief: Dr. Y. Mallikarjuna Rao

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ABOUT THE COLLEGE

Santhiram Engineering College (SREC) is sponsored by M/s Sri Shirdi Sai Educational Academy, Nandyal. SREC was established under the able guidance of Dr. M. Santhiramudu, Chairman, in the year 2007 with the noble motto Education for peace and progress. SREC is approved by AICTE, New Delhi; recognized by UGC under 2(f) and 12(B); permanently affiliated to JNTUA, Ananthapuramu; and certified to ISO 9001:2015. The college is ranked as one of the best engineering colleges of JNTUA, Ananthapuramu.

Santhiram Engineering College (SREC), Nandyal, is an autonomous, NAAC accredited institution offering NBA accredited B.Tech programs in ECE and CSE. Approved by AICTE and recognized by UGC under sections 2(f) and 12(B), SREC delivers outcome-based technical education aligned with industry expectations.

The college offers undergraduate and postgraduate programs such as B.Tech in CSE, CSE-AIML, CSE-Data Science and ECE, along with M.Tech in CSE, CSE-AIML, VLSI System Design (VLSID), Embedded Systems (ES), MBA and MCA.

With strong placements, research-driven learning, innovation labs and modern infrastructure, SREC prepares students to become industry-ready professionals and future-ready leaders.



SANTHIRAM ENGINEERING COLLEGE

Department of Electronics &
Communication Engineering

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VISION & MISSION



Vision and Mission of the Institute



Vision

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.



Mission

- M1:** To provide Advanced Educational Programs and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University.
- M2:** To establish postgraduate programs in the current and Advanced Technologies.
- M3:** To establish an R&D Consultancy through developing Industry Institute Interaction, building up exceptional infrastructure.
- M4:** To propel every individual, realize and act for the technical development of the society.



Vision and Mission of the Department



Vision

To be a leading Center for Education, Research and Industry-driven innovation in Electronics and Communication Engineering with global, social and ethical excellence.



Mission

- M1:** Offer quality programs in Electronics & Communication Engineering aimed at fulfilling the needs of society and industry.
- M2:** Impart skills and develop scientific temper to solve complex technological problems of current times.
- M3:** Nurture ethics, talent, and entrepreneurship to inculcate professional development of students.



PEOs & PROGRAM OUTCOMES



1. Program Educational Objectives (PEOs)



01

PEO1

Have in-depth knowledge in Electronics and Communication Engineering to innovate, design, and develop modern electronic systems.



02

PEO2

Sustain intellectual curiosity in professional career through life-long learning.



03

PEO3

Have strong work ethics, professional attitude, team spirit, leadership skills, and enterprising skills to serve industry and society.



2. Program Outcomes (POs)

P0	Engineering Graduates will be able to
P01	Engineering knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and engineering specialization to develop solutions for complex engineering problems.
P02	Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems with consideration for sustainable development.
P03	Design/development of solutions: Design creative solutions and develop systems, components or processes considering health, safety, cost, society and environment.
P04	Conduct investigations: Use research-based knowledge, experiments, modelling, analysis and interpretation of data to provide valid conclusions.
P05	Engineering Tool Usage: Select and apply appropriate techniques, resources and modern engineering and IT tools to solve complex engineering problems.
P06	The Engineer and The World: Analyze societal and environmental aspects while solving engineering problems for sustainability, health, safety, legal and cultural impact.
P07	Ethics: Apply ethical principles, professional ethics, human values, diversity and inclusion, and adhere to national and international laws.
P08	Individual and Collaborative Team Work: Function effectively as an individual, member or leader in diverse and multidisciplinary teams.
P09	Communication: Communicate effectively through reports, documentation and presentations considering cultural, language and learning differences.
P010	Project management and finance: Apply engineering management principles and economic decision-making to manage projects in multidisciplinary environments.
P011	Life-long learning: Recognize the need for independent lifelong learning, adaptability to emerging technologies and critical thinking.



SANTHIRAM ENGINEERING COLLEGE

Department of Electronics &
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PROGRAM SPECIFIC OUTCOMES



1. B.Tech in Electronics and Communication Engineering

Graduates of the program will be able to:

PSO
01

Ability to analyze, design, and implement application-specific electronic systems for complex engineering problems in analog and digital communication, signal processing, and embedded domains, using knowledge of basic sciences, engineering mathematics, and engineering fundamentals.

PSO
02

Ability to design and develop real-time embedded systems by integrating hardware and software components, ensuring energy efficiency, security, and reliability for applications in IoT, automotive, and industrial automation.

PSO
03

Ability to analyze, design, and optimize VLSI circuits and systems, focusing on low-power design, high-performance architectures, and efficient fabrication techniques to meet modern industry demands.



2. M.Tech in VLSI System Design

Program Educational Objectives (PEOs)

PEO
01

Identify and apply appropriate Electronic Design Automation software and electronic equipment to analyze, synthesize and evaluate real-world problems in the VLSI domain.

PEO
02

Pursue research studies in the core or allied areas of VLSI circuits and systems.

PEO
03

Inculcate positive attitude, professional ethics, effective communication and interpersonal skills to succeed in research and development as a team member and leader.

Program Specific Outcomes (PSOs)

PSO
01

Ability to design and integrate analog, digital and mixed signal circuits and systems.

PSO
02

Design and develop solutions for real-world problems in IC fabrication, testing, verification and prototype development.

PSO
03

Understand, analyze, design and simulate communication systems and data processing techniques and validate their performance for practical applications.

MESSAGES



CHAIRMAN MESSAGE



WAVES is a reflection of our department's spirit, creativity, and commitment to excellence. It showcases the technical insights, innovative ideas, and literary talent of our students and faculty. I extend my heartfelt appreciation to the entire team for their dedication and hard work in bringing this magazine to life. May WAVES continue to be a platform that inspires curiosity, strengthens knowledge, and encourages every student to express, explore, and excel. Let the waves of ideas create a sea of innovation!

Dr.M.Santhiramudu
Chairman/Founder



MD'S MESSAGE



I am pleased to see WAVES, the technical magazine of our department, taking shape as a platform for sharing knowledge and innovation. It highlights the remarkable efforts and creativity of our students and the unwavering support of the editorial team. I encourage everyone to contribute, collaborate, and make WAVES a source of inspiration and learning for all readers. Wishing the team great success in all their future endeavors!

Mr. M. SivaRam
Managing Director



*WAVES is not just a magazine,
it is the voice of ideas, the rhythm of innovation,
and the reflection of our vibrant ECE community.*



MESSAGES



PRINCIPAL'S MESSAGE



It gives me immense pleasure to present Volume 9, Issue 2 of WAVES. This edition is a testament to the relentless pursuit of knowledge, innovation, and excellence by the students and faculty of the Electronics and Communication Engineering Department. The rapid advancements in technology demand continuous learning and adaptability, and I am proud to see our department embracing these challenges with enthusiasm and dedication.

I congratulate the entire team behind this issue for their commendable efforts and the valuable contributions that make WAVES a beacon of technical insight and creativity. I encourage our students to keep exploring, innovating, and striving for excellence in all their endeavors.

Let us continue to work together to build a brighter, more innovative future.

Dr. M.V. Subramanyam
Principal



HOD'S MESSAGE



I am delighted to present Volume 9, Issue 2 of WAVES. This issue reflects the vibrant academic spirit and innovative mindset of our department community. The contributions in this edition highlight the diverse interests and technical proficiencies of our students and faculty, covering emerging technologies, research insights, and practical applications.

I extend my heartfelt appreciation to the editorial team, faculty members, and student contributors for their dedication and hard work in bringing out this issue. I also encourage all students to participate actively, share their ideas, and continue to push the boundaries of creativity and innovation.

Together, let us strive to uphold the legacy of excellence and make our department a center of learning, discovery, and growth.

Dr. Y. Mallikarjuna Rao
HOD-ECE





Advanced IoT Technologies: Building a Smarter and Connected Future

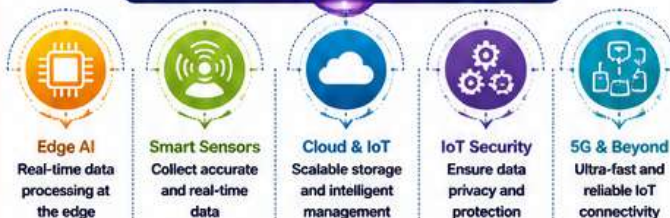
Exploring Edge AI, Smart Sensors, Digital Twins,
Industrial IoT, and Next-Generation Connected Systems

Author: Mrs. B. Alekya Himabindu,
Asst. Professor, Department of ECE

In the modern digital age, visual information has become one of the most valuable sources of data. Every day, billions of images and videos are captured through smartphones, surveillance cameras, satellites, medical imaging devices, drones, and Internet of Things (IoT) sensors. Traditional image processing techniques were primarily focused on enhancing image quality, filtering noise, and extracting basic features. However, the emergence of Deep Learning has transformed image processing from a simple analytical tool into an intelligent system capable of understanding and interpreting visual information in a manner similar to human vision. This revolutionary integration has given rise to Intelligent Vision Systems, which are shaping the future of technology across multiple domains.

Deep Learning, a subset of Artificial Intelligence (AI), enables machines to automatically learn complex patterns from large volumes of image data. Unlike conventional image processing methods that require handcrafted features, deep learning models such as Convolutional Neural Networks (CNNs), Vision Transformers (ViTs), and Generative Adversarial Networks (GANs) can extract meaningful representations directly from images. These models continuously improve their performance through training and experience, making them highly effective for tasks such as object recognition, image classification, segmentation, anomaly detection, and scene understanding. As a result, intelligent vision systems can perform complex visual tasks with remarkable accuracy and efficiency.

KEY ADVANCED IoT TECHNOLOGIES



One of the most significant applications of intelligent vision systems is in healthcare. Medical imaging technologies such as X-rays, MRI scans, CT scans, ultrasound images, and dermoscopic images generate vast amounts of visual data that require expert interpretation. Deep learning-based image analysis tools assist healthcare professionals by detecting diseases at early stages, identifying tumors, analyzing skin lesions, and supporting accurate diagnosis. These systems reduce diagnostic errors, improve treatment planning, and enhance patient outcomes.

The transportation sector has also witnessed remarkable advancements through intelligent vision systems. Autonomous vehicles rely heavily on deep learning-powered cameras and sensors to perceive their surroundings. These systems can detect vehicles, pedestrians, traffic signs, road lanes, and obstacles in real time, enabling safer navigation. Modern object detection algorithms such as YOLOv8, YOLOv9, and RT-DETR provide high-speed and accurate detection even in dynamic environments. Researchers are further developing robust vision systems capable of operating effectively under challenging weather conditions such as fog, rain, snow, and low-light environments, thereby enhancing road safety and reducing accident risks.

Agriculture is another field benefiting significantly from intelligent image processing technologies. Smart farming solutions utilize drones, satellite imagery, and ground-based cameras to monitor crop health, detect diseases, estimate yields, and optimize resource utilization. Deep learning models analyze visual patterns in crops to identify nutrient deficiencies, pest infestations, and irrigation requirements. These intelligent systems help farmers make informed decisions, improve productivity, and promote sustainable agricultural practices while minimizing environmental impact.

“The future belongs to machines that can see, understand, and intelligently respond to the world around them.”



Deep Learning-powered Computer Vision enabling intelligent image analysis and object recognition.

The integration of image processing with IoT and Edge Computing has further accelerated the adoption of intelligent vision systems. Instead of transmitting large amounts of image data to centralized cloud servers, deep learning models can now be deployed directly on edge devices such as smart cameras, embedded systems, and drones. This approach reduces communication delays, lowers bandwidth requirements, and enables real-time decision-making. Intelligent surveillance systems, industrial inspection solutions, and smart city infrastructures increasingly rely on edge-based vision technologies to provide faster and more efficient services.

Another emerging trend is the use of Vision Transformers and Generative AI in image processing applications. Vision Transformers utilize self-attention mechanisms to capture global image relationships, achieving superior performance in various computer vision tasks. Meanwhile, Generative AI models can generate realistic images, restore damaged photographs, enhance image resolution, and create synthetic training datasets. These technologies are expanding the possibilities of visual content creation, digital media production, and scientific research.

Intelligent vision systems are also playing a crucial role in industrial automation and quality control. Manufacturing industries employ deep learning-based visual inspection systems to identify product defects, monitor production lines, and ensure quality standards. Similarly, security and surveillance applications leverage facial recognition, activity recognition, and anomaly detection systems to enhance public safety and infrastructure protection.

Looking ahead, the future of image processing will be driven by advancements in Explainable AI (XAI), Federated Learning, Multimodal Learning, and 3D Computer Vision. These innovations will further enhance the intelligence, reliability, and applicability of vision systems across industries.

APPLICATIONS OF INTELLIGENT VISION SYSTEMS



CONCLUSION



Intelligent Vision Systems represent a transformative evolution in image processing driven by the power of Deep Learning. By enabling machines to perceive, understand, and interpret visual information with unprecedented accuracy, these technologies are revolutionizing healthcare, transportation, agriculture, industry, security, and smart environments. As research and innovation continue to advance, intelligent vision systems will become an integral part of everyday life, empowering society with smarter, safer, and more efficient solutions.

MODERN ANTENNAS AND THEIR EXPANDING APPLICATIONS



INTRODUCTION

In today's hyper-connected world, wireless communication has become an essential part of everyday life. Behind every mobile phone call, satellite transmission, Wi-Fi connection, and IoT device lies a critical component that makes communication possible—the antenna. Once considered a simple device for transmitting and receiving radio signals, antennas have evolved into sophisticated systems capable of supporting high-speed data transmission, intelligent communication, and global connectivity. Modern antenna technologies are transforming the way people communicate, enabling faster, smarter, and more reliable wireless networks.



THE EVOLUTION OF MODERN ANTENNAS

The rapid growth of wireless technologies has driven significant advancements in antenna design. Traditional antennas have given way to compact, lightweight, and highly efficient structures capable of operating across multiple frequency bands. Innovations such as Multiple Input Multiple Output (MIMO) antennas, beamforming antennas, reconfigurable antennas, and metamaterial-based antennas have dramatically improved communication performance. These advanced antennas can dynamically adjust their radiation patterns, increase signal strength, reduce interference, and enhance network capacity. Such capabilities are essential for supporting emerging technologies including 5G, future 6G networks, and smart communication systems.

ADVANCED ANTENNA TECHNOLOGIES



MIMO ANTENNAS

Increase network capacity and improve data throughput.



BEAMFORMING ANTENNAS

Direct signals towards users to enhance performance.



RECONFIGURABLE ANTENNAS

Adapt to different frequencies and environments dynamically.



METAMATERIAL ANTENNAS

Enable compact designs and superior control over radio waves.



EXPANDING APPLICATIONS ACROSS INDUSTRIES



MOBILE COMMUNICATION

Advanced antennas enable seamless connectivity and ultra-fast internet access.



INTERNET OF THINGS (IoT)

Compact antennas connect billions of devices in smart homes, industries, agriculture, and more.



SATELLITE COMMUNICATION

Provide global coverage for navigation, broadcasting, remote sensing, and disaster management.



AUTOMOTIVE SECTOR

Enable V2V communication, autonomous driving, and advanced driver assistance technologies.



AEROSPACE & DEFENSE

Support radar systems, secure communication, surveillance, and navigation applications.



SMART CITIES

Power wireless networks for traffic management, public safety, environmental monitoring, and smart infrastructure.



EMERGING TRENDS IN ANTENNA TECHNOLOGY



AI-DRIVEN SMART ANTENNAS

Automatically optimize performance based on environmental conditions and network requirements.



RECONFIGURABLE INTELLIGENT SURFACES (RIS)

Manipulate radio waves to improve coverage, capacity, and energy efficiency.



FLEXIBLE & WEARABLE ANTENNAS

Enable new possibilities in healthcare monitoring, fitness tracking, and biomedical applications.



SUSTAINABLE ANTENNA MATERIALS

Development of eco-friendly materials to support green communication and reduce electronic waste.



CONCLUSION

Modern antennas are the silent enablers of the digital revolution. Their continuous evolution is supporting the rapid expansion of wireless communication systems and creating new possibilities across industries. From powering 5G networks and IoT ecosystems to enabling autonomous vehicles and satellite communication, antennas are shaping the future of connectivity. As research and innovation continue to advance, modern antennas will remain at the heart of next-generation technologies, connecting people, devices, and intelligent systems across the globe.

“ From smartphones to satellites, modern antennas are the invisible bridges connecting our digital world. ”



Author : **SHAIK FAZIL**

Reg No : **22X55A0412**



ADVANCED IoT SOLUTIONS: DRIVING DIGITAL TRANSFORMATION

“ Connecting devices.
Transforming data.
Empowering the future. ”



INTRODUCTION

The Internet of Things (IoT) has emerged as one of the most transformative technologies of the digital era. By connecting physical devices, sensors, and machines to the internet, IoT enables seamless communication and real-time data exchange. Today, advanced IoT solutions are revolutionizing industries by improving efficiency, reducing operational costs, and enhancing decision-making processes. From smart homes and healthcare systems to industrial automation and smart cities, IoT is driving digital transformation across every sector of society.



SMART HOME



HEALTHCARE



INDUSTRIAL
AUTOMATION



SMART CITY



TRANSFORMING INDUSTRIES THROUGH SMART CONNECTIVITY

Advanced IoT solutions integrate sensors, cloud computing, artificial intelligence, and data analytics to create intelligent systems capable of monitoring and controlling processes remotely. In manufacturing industries, IoT-enabled machines can predict equipment failures before they occur, reducing downtime and maintenance costs. In agriculture, smart sensors monitor soil moisture, temperature, and crop health, helping farmers optimize resources and improve productivity. Similarly, healthcare organizations use IoT devices to monitor patients remotely, enabling timely medical intervention and improving the quality of care. These applications demonstrate how IoT is transforming traditional operations into smart, data-driven ecosystems.



THE FUTURE OF DIGITAL TRANSFORMATION

The future of IoT lies in its integration with emerging technologies such as Artificial Intelligence (AI), Machine Learning (ML), Edge Computing, and 5G communication networks. These advancements will enable faster data processing, enhanced automation, and more intelligent decision-making. Smart cities will utilize IoT to manage traffic, energy consumption, waste management, and public safety efficiently. Businesses will leverage real-time insights to improve customer experiences and operational performance. As organizations continue their digital transformation journeys, advanced IoT solutions will play a critical role in creating a connected, intelligent, and sustainable future. By bridging the gap between the physical and digital worlds, IoT is not only transforming technology but also reshaping the way people live, work, and interact.



CONCLUSION

Advanced IoT solutions are becoming the backbone of modern digital transformation. Their ability to connect devices, collect meaningful data, and automate complex processes is helping organizations innovate and adapt to rapidly changing technological landscapes. As IoT technologies continue to evolve, they will unlock new opportunities for growth, sustainability, and global connectivity, paving the way for a smarter and more efficient world.



Author : K .NagaJyothi
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Space-Enabled IoT:

Expanding Connectivity Beyond Boundaries



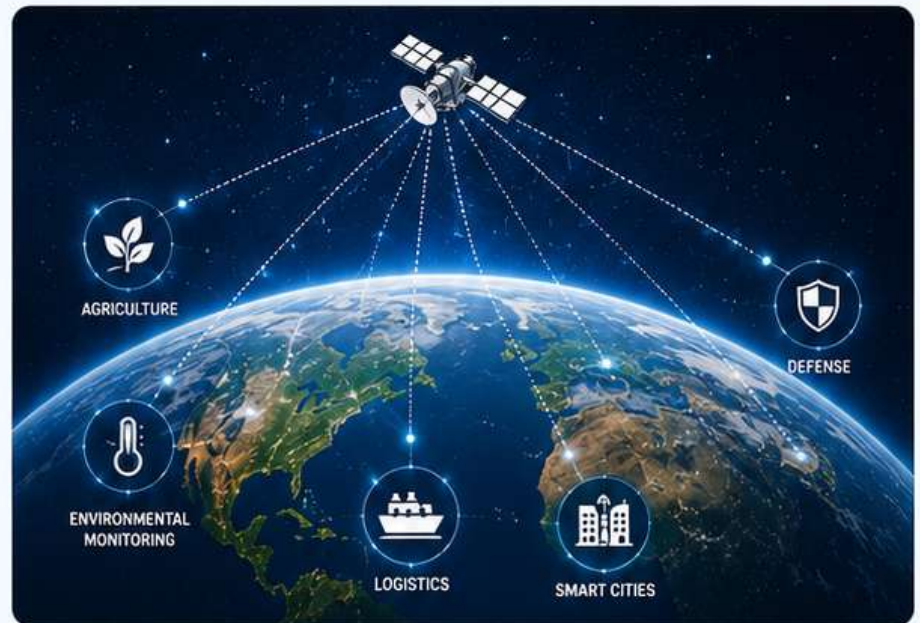
INTRODUCTION

The Internet of Things (IoT) has transformed the way devices communicate and share information. From smart homes and wearable gadgets to industrial automation systems, IoT has become an essential part of modern life. However, traditional IoT networks depend largely on terrestrial communication infrastructure such as cellular towers and internet connectivity. In many remote areas, including oceans, forests, deserts, and mountainous regions, reliable communication remains a challenge. To overcome these limitations, space technology is being integrated with IoT, creating a new era of global connectivity.



ROLE OF SATELLITES IN IOT COMMUNICATION

Space-enabled IoT utilizes satellites to connect devices located far beyond the reach of conventional networks. Satellites orbiting the Earth collect and transmit data from sensors and smart devices in real time. This capability allows continuous monitoring of environmental conditions, transportation systems, agricultural fields, and critical infrastructure regardless of location. Farmers can track soil moisture levels in remote farmlands, logistics companies can monitor shipments across oceans, and scientists can gather valuable environmental data from isolated regions. Satellite-based communication ensures that important information reaches decision-makers quickly and reliably.



AI & ML
Integration



Global Satellite
Constellations



Edge
Computing



FUTURE OPPORTUNITIES AND APPLICATIONS

The future of Space-IoT is filled with exciting possibilities. The integration of Artificial Intelligence (AI), Machine Learning (ML), and edge computing is making satellite communication systems smarter and more efficient. Modern satellite constellations are being designed to support billions of connected devices worldwide. These advancements are expected to improve disaster management, wildlife conservation, smart agriculture, autonomous transportation, and environmental monitoring. As technology continues to evolve, Space-Enabled IoT will play a vital role in creating a connected world where information can be exchanged seamlessly across any location on Earth. This powerful combination of space technology and IoT is opening new opportunities for innovation, sustainability, and global development.



Author

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VLSI WITH CNTFETS: NEW TRENDS

INTRODUCTION

As the semiconductor industry advances toward the limits of Moore's Law, traditional silicon-based technologies are facing challenges such as short channel effects, high power consumption, and scalability issues. Carbon Nanotube Field Effect Transistors (CNTFETs) have emerged as a promising alternative for next-generation VLSI designs due to their superior electrical, thermal, and mechanical properties.

WHAT ARE CNTFETS?

CNTFETs are transistors that use carbon nanotubes (CNTs) as the channel material instead of silicon. CNTs can be either metallic or semiconducting. In CNTFETs, semiconducting CNTs are preferred because of their ability to offer high current drive and low power dissipation.

ADVANTAGES OF CNTFETS

- High carrier mobility
- Low power consumption
- Excellent scalability down to nanoscale
- High current drive capability
- Better thermal conductivity

NEW TRENDS IN CNTFET TECHNOLOGY



CNTFET-Based SRAM Designs

CNTFETs enable low-power, high-speed SRAM cells suitable for advanced VLSI applications.



Hybrid CMOS-CNTFET Circuits

Combining CMOS and CNTFETs leverages the best of both technologies for enhanced performance.



Low Power & High Performance

CNTFETs are being explored for ultra-low power applications in IoT, wearable, and biomedical devices.



3D Integration with CNTFETs

CNTFETs enable better 3D stacking and integration for higher density and performance.



AI & Machine Learning Hardware

CNTFETs are ideal for energy-efficient AI accelerators and neuromorphic computing.

FUTURE OUTLOOK

CNTFET technology is still in the research and development phase, but it holds great potential to revolutionize the future of VLSI. With continuous advancements in fabrication techniques and materials, CNTFETs are expected to play a key role in the era of beyond-silicon nanoelectronics.



ECE EVENTS

Department of Electronics and Communication Engineering

1 One-week Certification Program on "DRONE REMOTE SENSING AND APPLICATIONS"

26-31 July, 2024

In association with the IEI Students' Chapter. Mr. Vamsi Krishna Kurakula, Director, India, Drone Academy, Hyderabad acted as resource person.



2 Alumni Talk on "Innovation Ideas and Technologies"

14 Aug, 2024

Mr. P. Teja Kumar, Senior Software Engineer, Dell Technologies, Bangalore acted as resource person.



3 Two day Hands-on Workshop on Explore Routing and Switching Concepts in Data Communication and Networking using Cisco Packet Tracer

18-19 July, 2024

Dr. C. Kumar, Chair Communication Society IEEE, Hyderabad section, Mr. V. Tamilkumaran, Manager Tata Communications Pvt. Ltd were acted as resource persons.



4 One-day Guest Lecture on "Design and Verification of digital System Using System Verilog"

5 Oct, 2024

The resource persons were Mr. P. Akhil from Smart SOC, Hyderabad, and Mr. K. Jahur, VLSI Engineer from Bangalore.



5 Awareness Program on "Awareness Program on GATE-2025"

19 Sept, 2024

For the III, IV- B, Tech ECE students. The resource persons were Mr. K. Satish Kumar, Mr. Balaram Shaw, IISc GATE, Ambassadors.



6 One-day Guest Lecture on "ADVANCES IN RTL DESIGN"

10 Oct, 2024

The resource persons were Mr. P. Akhil from Smart SOC, Hyderabad, and Mr. K. Jahur, VLSI Engineer from Bangalore.



7 Awareness Program on "How to Clear NPTEL Certification Course – Tips and Tricks"

19 Oct, 2024

For III ECE students. Mr. S. Mohammad Eliyas, SPOC-NPTEL and Assistant Professor in the Department of ECE at Santhiram Engineering College, Nandyal acted as resource person.



8 One-day Guest Lecture on "Image Processing and Its Applications"

21 Oct, 2024

For III and IV ECE students. The resource person was Dr. Umesh Ghanekar, Professor Dept. of ECE at NIT Kurukshetra.



9 One-day Guest Lecture on "Next Step to Global Careers: Education & Work Opportunities Overseas"

29 Oct, 2024

For III and IV ECE students. Mr. Ramesh Kumar, CEO of Cana Kosmos Connect Pvt. Ltd acted as resource person.



DEPARTMENT GALLERY

ELECTRONICS & COMMUNICATION ENGINEERING

