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Artificial Intelligence (AI) and Cloud Computing within the Electric Vehicle (EV) Ecosystem

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Abstract: *The rapid global transition toward sustainable transportation has positioned Electric Vehicles (EVs) at the center of a technological revolution. However, the efficacy of EVs is no longer defined solely by battery chemistry or powertrain efficiency, but by their integration into a data-driven ecosystem. This paper explores the symbiotic relationship between Artificial Intelligence (AI) and Cloud Computing in optimizing EV performance. We examine how cloud-based platforms provide the massive computational infrastructure required to process vehicle-generated telemetry, while AI algorithms translate this "big data" into actionable insights. From predictive battery management systems (BMS) that mitigate thermal degradation to cloud-coordinated smart charging architectures that alleviate grid strain, the integration of these technologies is pivotal. We conclude that the fusion of edge intelligence and cloud scalability is the fundamental prerequisite for achieving autonomous, efficient, and grid-integrated electric mobility.*

Keywords: Ai, Electrical Vehicles, Cloud computing, battery management systems,

II. INTRODUCTION

The modern Electric Vehicle (EV) is no longer just a motorized carriage; it is a high-performance computer on wheels. As the automotive industry shifts from mechanical engineering to software-defined architecture, the synergy between **Artificial Intelligence (AI)** and **Cloud Computing** has become the central nervous system of the EV revolution[1-50].

In the past, an EV's limitations were defined by its hardware at the moment of purchase. Today, the Cloud acts as an "infinite garage," allowing manufacturers to beam improvements directly into the vehicle.

- **Over-the-Air (OTA) Updates:** Cloud infrastructure allows EVs to receive performance patches, range enhancements, and UI upgrades while parked in the driveway. A car can literally get "faster" or more efficient overnight.
- **Big Data Fleet Management:** Every connected EV acts as a sensor node. Cloud platforms aggregate terabytes of data from thousands of vehicles—battery health, braking patterns, and motor temperatures—to identify potential failures before they happen. This "Predictive Maintenance" model ensures that fleet operators and individual owners can address issues before they result in a breakdown.

  If the Cloud is the infrastructure, AI is the brain. It is the layer of intelligence that interprets the massive streams of data provided by the cloud and the vehicle's onboard sensors.
- **Optimizing the Energy Ecosystem:** Lithium-ion batteries love consistency, but real-world driving is chaotic. AI models analyze driving habits, elevation changes, and weather patterns to provide ultra-precise "Range Estimation." It can pre-condition the battery temperature based on the destination, ensuring that the chemistry is at peak efficiency exactly when the car needs to accelerate or charge.
- **Smart Charging Orchestration:** With AI, the EV doesn't just "plug in"; it negotiates. AI algorithms communicate with the local power grid to determine the cheapest and greenest times to charge. It turns the car into a dynamic energy storage unit, helping balance the grid during peak load hours.

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The most exciting frontier is the marriage of the two technologies in **Vehicle-to-Everything (V2X)** communication. Imagine a city where your EV doesn't just "see" the road with its onboard cameras (AI), but also "talks" to traffic lights and other vehicles via the Cloud. If a traffic light three blocks ahead is about to turn red, the Cloud notifies your EV, and the AI automatically adjusts your speed to glide into the intersection without braking. This reduces energy waste, brake wear, and traffic congestion simultaneously[51-100].

While this transformation is revolutionary, it brings new hurdles:

- **Security:** A connected car is an entry point for cyber threats. Robust encryption and blockchain-based authentication are now as vital as the car's chassis.
- **Latency:** For autonomous features, milliseconds matter. This has led to the rise of **Edge Computing**—processing data directly on the vehicle's onboard chips (AI), while offloading long-term analysis to the Cloud.

We are witnessing the "Siliconization" of transportation. The EV of 2030 will not be judged merely by its horsepower or its 0–60 time, but by its **intelligence quotient.**

As AI and Cloud Computing converge, the EV ceases to be a product you buy and becomes a service you subscribe to—one that evolves, learns, and improves long after it has left the showroom floor. The road ahead is not just paved with asphalt; it is paved with data[101-125].

Artificial intelligence (AI) and cloud computing transform electric vehicles (EVs) from simple transportation into software-defined, self-optimizing machines. Together, they enable real-time battery management, predictive maintenance, and autonomous driving while continuously improving vehicle performance through over-the-air (OTA) updates[126-150].

Key Applications of AI & Cloud Computing

- **Battery Management Systems (BMS):** AI algorithms analyze charge cycles, driving habits, and temperatures to accurately predict the State of Charge (SOC) and State of Health (SOH) of the battery, extending its overall lifespan
- **Predictive Maintenance:** Cloud-connected AI models process vehicle telemetry in real-time, functioning as virtual sensors that can forecast component degradation (like brake pads or tire wear) before a failure occurs.
- **Smart Charging & Grid Integration:** AI optimizes charging schedules based on grid demand, electricity pricing, and available renewable energy, while cloud networks balance the energy dispatch across distributed power stations.
- **Advanced Driver Assistance Systems (ADAS):** AI integrates data from cameras, lidar, and radar via sensor fusion to enable autonomous navigation, adaptive cruise control, and pedestrian detection.
- **Connected Route Planning:** Cloud infrastructure enables dynamic route optimization that considers real-time traffic, elevation changes, and the locations of functioning EV chargers along the journey.
- **Ecosystem Benefits**
- **Continuous Updates:** Manufacturers use cloud platforms to push OTA updates to the vehicle's electronic control units (ECUs), adding new features, improving motor efficiency, and patching security vulnerabilities.
- **Fleet Management:** Commercial fleets can utilize real-time cloud analytics to track vehicle status, monitor driver behavior, and minimize operational downtime.
- **Energy Efficiency:** Reinforcement learning and heuristic AI algorithms within the vehicle analyze driving conditions in real-time to adjust power allocation and regenerative braking, boosting overall vehicle range.

II. FRAMEWORK

The architecture for Artificial Intelligence and Cloud Computing in Electric Vehicles (EVs) relies on a 3-tiered hybrid ecosystem that bridges the physical car with massive computing clusters. This structure processes vehicle telemetry, optimizes battery life, enhances driving safety, and manages grid energy distribution.

The structural model is divided into Four interconnected layers as shown in Figure 1:

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1. The Edge Layer (In-Vehicle)

This layer acts as the "brain on wheels," gathering real-time data and making split-second decisions with zero latency.

- **On-Board Computers & GPUs:** High-performance systems-on-a-chip (SoCs) that run deep neural networks.
- **Edge AI:** Algorithms process localized tasks like sensor fusion (for Advanced Driver Assistance Systems - ADAS), immediate power control, and virtual sensor readings (e.g., predicting component lifespan without physical sensors).
- **Hardware Abstraction & Middleware:** Software stacks (such as AUTOSAR or ROS) manage varying hardware and operating systems.

2. The Fog/Edge Cloud Layer (Local Hubs & Regional Gateways)

This transitional layer bridges the vehicles and the centralized cloud, preventing data bottlenecks.

- **Local Aggregation:** Collects data from multiple vehicles or nearby charging stations.
- **Data Filtering & Caching:** Stores redundant or temporary information locally to reduce interpretation time and transmission costs.
- **Federated Learning & Edge Training:** Allows multiple EVs to collaboratively train AI models locally before sharing only the summarized "model updates" with the central cloud. This maintains data privacy.

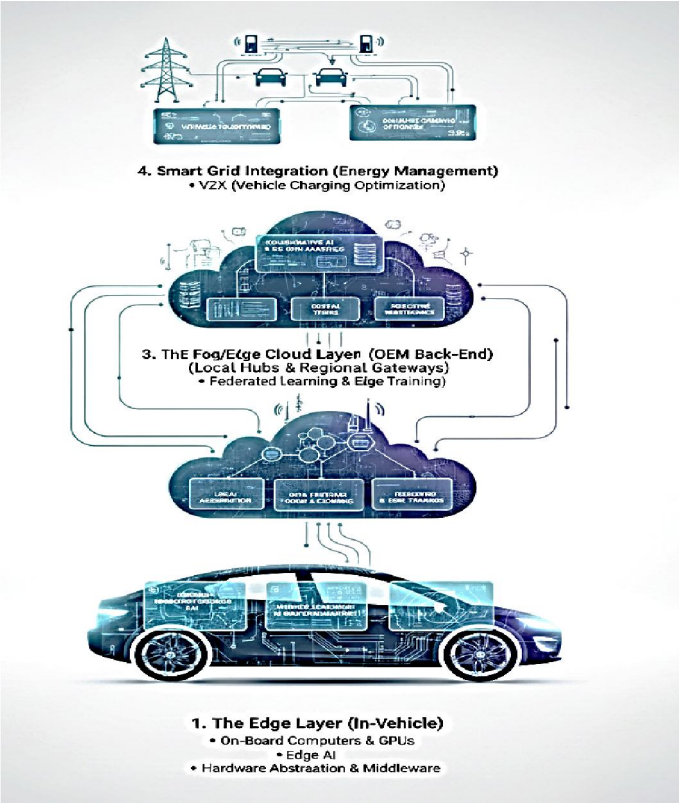

Figure 1: Framework

3. The Central Cloud Layer (OEM Back-End)

This is the massive scalable infrastructure that processes, stores, and analyzes data across the entire EV fleet.

- **Cloud-Native AI & Big Data Analytics:** Uses containerized microservices to store massive volumes of transactional and spatial data (e.g., in platforms like Microsoft Azure Digital Twins or Google Cloud).

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- **Digital Twins:** Creates real-time virtual replicas of individual EV batteries to simulate aging, heating, and charging efficiency based on your specific regional weather and driving habits.
- **Predictive Maintenance:** Analyzes historical fleet data to detect anomalies and predict impending failures, issuing updates directly to the car via Over-the-Air (OTA) updates.

4. Smart Grid Integration (Energy Management)

Communicates with external infrastructure to manage energy stability.

- **V2X (Vehicle-to-Everything):** AI algorithms manage bi-directional power flow, enabling Vehicle-to-Grid (V2G) coordination.
- **Dynamic Charging Optimization:** Cloud platforms assess real-time grid conditions, carbon market interplay, and pricing to determine the optimal, cost-efficient charging times for fleets or private consumers.

III. RESULTS AND DISCUSSION

Integrating AI and cloud computing into Electric Vehicles (EVs) drives the transition to Software-Defined Vehicles (SDVs). Expected results include up to 23% longer battery life, 49% improved energy conservation through smart routing, and optimized grid load balancing to prevent overloads. The synergy of edge AI and cloud platforms transforms EV manufacturing, infrastructure, and ownership:

Battery Management & Performance

- **Increased Longevity:** AI monitors battery health at a microscopic level, dynamically adjusting currents in real-time to prevent premature degradation.
- **Thermal Safety:** Cloud and AI integrations constantly analyze temperature patterns, predicting and suppressing potential thermal runaways.

Range Prediction & Routing

- **Hyper-Accurate Range Models:** Algorithms predict state of charge with over 95% accuracy. These models process external factors like wind speed, road topology, and traffic to optimize energy consumption.
- **Dynamic Range Estimates:** Energy savings up to 46% are achievable by simply avoiding high-incline terrain.

Smart Infrastructure & Energy

- **Demand Response:** Cloud systems help Charge Point Operators (CPOs) balance electrical loads, easing grid stress by up to 20% during peak periods.
- **Dynamic Tariffs:** AI apps guide drivers to optimal charging times based on grid carbon intensity and real-time electricity prices.

Fleet Management & Maintenance

- **Predictive Maintenance:** Telematics combined with machine learning proactively identify hardware or software anomalies before failures occur, reducing costly downtime.
- **Fleet Optimization:** Cloud platforms coordinate large-scale charging, ensuring critical fleet vehicles are ready while prioritizing off-peak charging to cut operating costs.

Software-Defined Vehicles (SDVs)

- **Continuous Upgrades:** Automakers use cloud updates (OTA) to continuously refine ADAS (Advanced Driver Assistance Systems) features and in-car AI assistants long after the car is purchased.

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- **Digital Twins:** Manufacturers use digital twins and cloud simulation to test and validate vehicle behavior before building physical prototypes, significantly speeding up development cycles.

IV. CONCLUSION

The convergence of Artificial Intelligence and Cloud Computing marks the departure of the Electric Vehicle from a standalone transportation asset toward a sophisticated, interconnected node within the "Internet of Energy."

As this study has demonstrated, the transition is multifaceted. Cloud computing provides the "nervous system" by offering scalable storage and high-performance computing capabilities that the vehicle's onboard hardware cannot match alone. Simultaneously, AI serves as the "cerebral cortex," parsing complex variables—such as real-time traffic patterns, ambient temperature, and fluctuating energy market prices—to optimize energy consumption and charging cycles.

Looking ahead, the synergy between these two domains will resolve the three primary friction points of EV adoption: range anxiety, charging infrastructure bottlenecks, and battery longevity. By transitioning to a model where AI-driven predictive maintenance and cloud-synchronized load balancing become the industry standard, we move closer to a seamless user experience.

However, this paradigm shift necessitates a rigorous focus on cybersecurity and data privacy. As vehicles become increasingly reliant on external cloud environments, the integrity of the data pipeline becomes as critical as the mechanical safety of the vehicle itself. Ultimately, the future of the EV is not found under the hood, but in the cloud. The developers and manufacturers who master the orchestration of AI-cloud integration will define the standard for the next generation of global mobility, transforming the EV from a consumer product into a vital, intelligent component of our future smart cities.

REFERENCES

1. Heena Rafiq Shaik. Juncture of Nanotechnology and IoT: Novel Era of Connectivity. Nano Trends – A Journal of Nano Technology & Its Applications. 2025; 27(03):-. Available from: https://journals.stmjournals.com/nts/article=2025/view=212921
2. Liyakat. Machine Learning Revolutionizing Server Management and Performance. Journal of Computer Technology & Applications. 2025; 16(02):-. Available from: https://journals.stmjournals.com/jocta/article=2025/view=0
3. Sayyad Liyakat. KVS Approach for IoT Network Security: A Novel Approach to IoT Network Security With B-Cell Inspired Models. Journal of Network security. 2025; 13(02):16-25. Available from: https://journals.stmjournals.com/jons/article=2025/view=207920
4. Sayyad Liyakat. Nanotechnology: Effective Pesticide Solutions for Jawar Leaf Diseases. Journal of Nanoscience, NanoEngineering & Applications. 2025; 15(02):-. Available from: https://journals.stmjournals.com/jonsnea/article=2025/view=204242
5. Parkhe Suyash Swaminath, Dhyavarkonda Udaykiran Tulshidas, Todkar Renuka Dnyanoba, Pawar Radhika Maruti. Nanotechnology in Internet of Things: A Powerful Partnership Shaping the Future. Journal of Nanoscience, NanoEngineering & Applications. 2025; 15(02):-. Available from: https://journals.stmjournals.com/jonsnea/article=2025/view=211534
6. Nikat Rajak Mulla. Nano-Materials in Vaccine Formation and Chemical Formulae's for Vaccination. Journal of Nanoscience, NanoEngineering & Applications. 2025; 15(03):-. Available from: https://journals.stmjournals.com/jonsnea/article=2025/view=216526
7. A. K. Mulani, H. T. Shaikh, (2025). Nuclear Power Generation Using UO2 Materials, Journal of Advance Electrical Engineering and Devices, Vol. 3, No. 2, pp. 27-40, Jul. 2025.
8. H. T. Shaikh, "Empowering the IoT: The Study on Role of Wireless Charging Technologies," Journal of Control and Instrumentation Engineering, vol. 11, no. 2, pp. 29-39, Jul. 2025.

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9. H. T. Shaikh, "Pre-Detection Systems Transfiguring Intoxication and Smoking Using Sensor and AI," Journal of Instrumentation and Innovation Sciences, vol. 10, no. 2, pp. 19-31, Jul. 2025.
10. Vaishnavi Ashok Desai, (2025). AI and Sensor Systems Revolutionizing Intoxication and Smoking Pre-Detection. Journal of Control & Instrumentation. 2025; 16(3): 15–26p.
11. Heena Tajoddin Shaikh. (2025). The Future of Coastal Resilience: Harnessing Satellite Technology. Advance Research in Communication Engineering and Its Innovations, 28–36. Retrieved from https://matjournals.net/engineering/index.php/ARCEI/article/view/2281
12. H. T. Shaikh and K. K. S. Liyakat., (2025). Sensor- based Intelligent Wearable Glasses, Journal of Digital Circuitry Innovations in Electrical Devices, vol. 1, no. 2, pp. 16-24, Jul. 2025.
13. Sayyad Liyakat. Nanorobots: The Fight against Cholesterol. Nano Trends – A Journal of Nano Technology & Its Applications. 2025; 27(02). Available from: https://journals.stmjournals.com/nts/article=2025/view=205244
14. H. T. Shaikh, "Millimetre Wave: A Study on the Backbone of Future IoT Connectivity", Advance Research in Analog and Digital Communications, Vol. 2, no. 2, pp. 20-31, Aug. 2025.
15. Ayesha Khalil Mulani. Microwave Signals: A New Frontier in Non-Invasive Medical Diagnostics: A Study. Journal of Microwave Engineering & Technologies. 2025; 12(3): 27–41p.
16. Ayesha Khalil Mulani. Revolutionizing Optical Fibre Field Distribution with Linear Finite Element Method. Trends in Opto-electro & Optical Communication. 2025; 15(3): 31-41p.
17. H. T. Shaikh, (2025). Robust Access Control Mechanisms in IoT Security using VHDL Programming, Journal of VLSI Design and Signal Processing, vol. 11, no. 2, pp. 31-40, Aug. 2025. Available at: https://matjournals.net/engineering/index.php/JOVDSP/article/view/2351
18. Radhika Maruti Pawar, Kulkarni Amarja Bhaskar, Patu Shradha Gangadhar, Sensors and Artificial Intelligence based Intelligent Thermos. Recent Trends in Sensor Research & Technology. 2025; 12(3): 37–45p.
19. Ayesha Khalil Mulani. Optical Fibre Pressure Sensor in Medicine: A Study. Recent Trends in Sensor Research & Technology. 2025; 12(3): 18–27p.
20. Vaishnavi Ashok Desai, Heena Tajoddin Shaikh, Sensor and AI Based Pre- Detection Systems Transfiguring Intoxication & Smoking. Journal of Telecommunication, Switching Systems and Networks. 2025; 12(3): 37–50p.
21. C. M. Abhangrao, "A study on hybrid intelligence in COBOT," Journal of Mechanical Robotics, vol. 10, no. 2, pp. 15–29, Sep. 2025.
22. Heena Tajoddin Shaikh, (2025). The Future of Cancer Management: A Guide to Nanosensor Applications. Recent Trends in Semiconductor and Sensor Technology, 1–10.
23. Heena T Shaikh. A Study on Automatic Feedback Control by Image Processing for Mixing Solutions in a Microfluidic Device. International Journal of Advanced Control and System Engineering. 2025; 3(2): 32–41p.
24. Heena T Shaikh. A Study on Unmanned Air Vehicles (UAV). Journal of Aerospace Engineering & Technology. 2025; 15(3): 14–27p.
25. K. K. S. Liyakat, "Waste-to-Energy (WtE) Plants: A Study," Journal of Alternative and Renewable Energy Sources, vol. 11, no. 3, pp. 1-15, Oct. 2025.
26. Sultanabanu. (2024). Advancing IoT Connectivity through Very Large-Scale Integration of Semiconductor Technology. Journal of Semiconductor Devices and Circuits. 2024; 11(03):54-63. Available at: https://journals.stmjournals.com/josdc/article=2024/view=190467/
27. Sayyad Liyakat. Sensor and IoT centered Smart Agriculture by NodeMCU. Recent Trends in Sensor Research & Technology. 2024; 11(03): 24-32. Available from: https://journals.stmjournals.com/rtsrt/article=2024/view=0

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28. Sayyad Liyakat. KSK Approach to Smart Agriculture: Utilizing AI-Driven Internet of Things (AI IoT). Journal of Microcontroller Engineering and Applications. 2024; 11(03): 41-50. Available from: https://journals.stmjournals.com/jomea/article=2024/view=0
29. Pathan Muskan Ibrahim.(2025). Photochemical Materials for Light-Responsive Optical Switching: AI-Optimized Design of Dynamic Visual Effects. International Journal of Photochemistry and Photochemical Research, Volume 3, Issue 2. 2025; 3(2): 13–27p.
30. Shaikh A. Hakim A. Razzaque. (2025). A Study on AI-Enhanced Environmental Toxicology: Sensor-Driven Predictive Framework. Research & Reviews: A Journal of Toxicology. 2025; 15(3): 1–20p.
31. Paul Pranit Sunil, Dhyvarkonda Udaykiran Tulshidas, Gone Yashasvi Prakash. (2025). AI-Powered Motorcycle Anti-Theft and Safety System, International Journal of Advanced Research in Science, Communication and Technology, Volume 5, Issue 1, October 2025. pp. 445- 454.
32. P. M. Ibrahim and K. K. S. Liyakat, "Guardian Angel: An Innovative Mobile Application for Rapid Accident Notification and Emergency Response," Advance Research in Analog and Digital Communications, vol. 2, no. 3, pp. 7-20, Oct. 2025.
33. Muskan Ibrahim, Shaikh A. Hakim A. Razzaque, Heena T Shaikh. (2025). VHDL-Based Strategies for Protecting IoT Devices from Power and Electromagnetic Side-Channel Attacks: A Study. Recent Trends in Electronics & Communication Systems. 2025; 12(3): 30–40p. Available at: https://journals.stmjournals.com/article/article=2025/view=234151/
34. Amar Parmeshwar Bansode, (2025). Electronics and Communication Design of an AI-Powered Smart Chair for Real-Time Multilingual Interaction. Recent Trends in Electronics & Communication Systems. 2025; 12(3): 16–29p.
35. Pathan Muskan Ibrahim, Shaikh A. Hakim A. Razzaque, Heena T Shaikh,. (2025). Reimagining Nuclear Reactor Safety: The Study toward Passive Safety. Journal of Nuclear Engineering & Technology. 2025; 15(3): 6–15p.
36. Ayesha Khalil Mulani, Heena Tajuddin Shaikh. (2025). Nuclear Reactor Safety Using Fuel Pallet: A Study. Journal of Nuclear Engineering & Technology. 2025; 15(3): 16–23p.
37. Sunil Mishra and Liyakat, (2025). Sensors in Metallurgy Applications: A Study, Journal of Recent Activities in Production, vol. 10, no. 2, pp. 11-22, Oct. 2025. Available at: https://matjournals.net/engineering/index.php/JoRAP/article/view/2576
38. Muskan Pathan. (2025). Study of Agriculture Using Drones in India: Evaluation of Feasibility, Impact, and Adoption Challenges. International. Journal on Drones. 2025; 1(2): 21–33p. Available at: https://journals.stmjournals.com/ijd/article=2025/view=230379/
39. Sayyad Liyakat. (2025). A Study on Recent Trends in Chemical Sensors for Detecting Toxic Materials. Journal of Modern Chemistry & Chemical Technology. 2025; 16(3): 25–34p. Available at: https://journals.stmjournals.com/jomcct/article=2025/view=234528/
40. Heena T Shaikh. (2025). E-Commerce Study Using AR/VR and Ethical Convergence of Commerce. E-Commerce for Future & Trends. 2025; 12(3): 20–26p. Available at: https://journals.stmjournals.com/ecft/article=2025/view=232592/
41. Nikat Rajak Mulla, Bhakti Haridas Gavali, Ayesha Khalil Mulani, Vaibhavi Kishor Jadhav, (2025). Nanotechnology: Revolutionizing the World of Sensors. International Journal of Applied Nanotechnology. 2025; 11(2): 1–9p. Available at: https://journalspub.com/publication/ijan/article=21245/
42. Liyakat, (2025). Revolutionizing Petrology and Mineralogy: The Study of AI and Advanced Sensor Technologies. International Journal of Mineral. 2025; 2(2): 1–11p. Available at: https://journals.stmjournals.com/ijmi/article=2025/view=232613/

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International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
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Impact Factor: 8.2

43. Sayyad & Liyakat (2025). AR Coatings in Solar Efficiency: A Study. Journal of Thin Films, Coating Science Technology and Application. 2025; 12(3): 25–34p. Available at: https://journals.stmjournals.com/article/article=2025/view=235156/
44. Sanika Anil Bhosale, (2025). AI-Based Software-Defined Satellite in Decision Making: A Study. International Journal of Satellite Remote Sensing. 2025; 03(01):63-72. Available from: https://journals.stmjournals.com/ijsrs/article=2025/view=207998.
45. Heena T. Shaikh. (2025). A Study on Insect Journey Using Sensor. International Journal of Insects. 2025; 2(2): 1–7p. Available at: https://journals.stmjournals.com/article/article=2025/view=234932/
46. Bhagyarekha Ujjwalganesh Dhaware, (2025). A Smart Stove System for Cooking Food: A Study. International Journal of Electrical Machine Analysis and Design. 2025; 3(2): 1–10p. Available at: https://journals.stmjournals.com/article/article=2025/view=235595/
47. Milind Shivaji Kadam, (2025). Power of Optical Sensors in Remote Sensing: A Study. International Journal of Satellite Remote Sensing, 2025; 3(2): 29–36p. Available at: https://journals.stmjournals.com/article/article=2025/view=235438/
48. IR. (2025). A Study of Optical Sensor in Clinical applications. International Journal of Optical Innovations & Research. 2025; 3(2): 1–7p. Available at: https://journals.stmjournals.com/article/article=2025/view=235439/
49. Muskan Pathan, (2026). Exploring the Intersection of Blockchain and Cybersecurity. Current Trends in Information Technology. 2026; 16(1): 32–42p.
50. Shaikh Heena T. (2025). Satellite Sensing in Aero-Plan Guidance and Radar Tracking System. International Journal of Satellite Remote Sensing. 2025; 3(2): 1–9p. Available at: https://journals.stmjournals.com/issue/ijwsn-volume-03-Issue-02-2025/
51. K. K. S. Liyakat, (2025). AI-driven Convergent Channel Allocation for 7G Mobile Networks: A Study, Journal of RF and Microwave Communication Technologies, vol. 2, no. 3, pp. 19-30, Dec. 2025. Available at: https://matjournals.net/engineering/index.php/JoRFMCT/article/view/2825
52. Ayesha Khalil Mulani. (2025). Transforming IoT with mmWave: A Study. International Journal of Microwave Engineering and Technology. 2025; 11(2): 1–9p.
53. Nikat R. Mulla. (2025). Predictive Maintenance of 6G Infrastructure Using Artificial Intelligence. International Journal of Telecommunication and Emerging Technologies. 2025; 11(2): 1–10p. Available at:
54. Heena T Shaikh. (2025). Symmetry Principles in Digital Twin Systems: Modeling, Integration, and Applications. Emerging Trends in Symmetry. 01(02):06-24p. Available from: https://journals.stmjournals.com/etsy/article=2025/view=233711
55. Liyakat. (2025). Cloud Computing-Based Software Testing. International Journal of Software Computing and Testing. 11(2): 17–25p.
56. Mayur Saudagar Jadhav. (2025). Smart Cameras Integrated With Artificial Intelligence (AI) and Human Pose Estimation: A Study. International Journal of AI and Machine Learning Innovations in Electronics and Communication Technology, 1(2): 1–12. Accessed December 13, 2025. https://matjournals.net/engineering/index.php/IJAIMLECT/article/view/2424.
57. Nikat Rajak Mulla. (2025). A Transformative Approach to Empathetic Climate Change by Satellite Sensing. Research & Reviews : Journal of Space Science & Technology. 2025; 14(03):35-42. Available from: https://journals.stmjournals.com/rrjosst/article=2025/view=228204
58. Kazi Kutubuddin Sayyad Liyakat, Efficiency Improvements in Long-Distance Wireless Power Transmission. International Journal of Electrical Power System and Technology. 2024; 10(01): -p. Available from: https://journalspub.com/publication/ijepst/article=11880
59. Mulla Nikat. Securing IoT Wilderness with VHDL. International Journal of VLSI Circuit Design & Technology. 2025; 03(01):29-40. Available from: https://journals.stmjournals.com/ijvcdt/article=2025/view=206696

60. Nikat Rajak Mulla. GSM Based Intelligent Homes. International Journal of Electrical and Communication Engineering Technology. 2025; 03(02):-. Available from: https://journals.stmjournals.com/ijecet/article=2025/view=229260
61. *Liyakat. (2022).* Text Analysis in Health Care Study Using IoT, Journal of Computer Technology & Applications, Vol 13, No 3. Available at: https://computerjournals.stmjournals.in/index.php/JoCTA/article/view/955.
62. Liyakat. Enhancing LAN Security Using Machine Learning. International Journal of Wireless Security and Networks. 2025; 03(02):07-16. Available from: https://journals.stmjournals.com/ijwsn/article=2025/view=232814
63. Kutubuddin. (2024). Smart Agriculture based on AI-Driven-IoT (AIIoT): A KSK Approach. Advance Research in Communication Engineering and Its Innovations, 23–32. Retrieved from https://matjournals.net/engineering/index.php/ARCEI/article/view/746
64. Heena Tajoddin Shaikh. (2025). A Study on Innovations in Primary Containment Technology for Safer Nuclear Power. Journal of Nuclear Engineering & Technology. 2025; 15(03):-. Available from: https://journals.stmjournals.com/jonet/article=2025/view=233190
65. Sayyad Liyakat. (2025) Tiny Titans: The Promise of E-Nanorobots in the Fight against Cancer. Journal of Advancements in Robotics. 2025; 12(02):11-21. Available from: https://journals.stmjournals.com/joarb/article=2025/view=0
66. Nikat Rajak Mulla. (2025) Analysis of Field Distribution in Optical Fibre Using FEM Method. Trends in Opto-electro & Optical Communication. 2025; 15(02):31-40. Available from: https://journals.stmjournals.com/toeoc/article=2025/view=215300
67. Nikat Rajak Mulla. (2025). Internet of Things Connectivity Using Millimetre Wave: A Study. Journal of Microwave Engineering and Technologies. 2025; 12(02):18-30. Available from: https://journals.stmjournals.com/jomet/article=2025/view=215480
68. Sayyad Liyakat. (2025). Fog Computing Architecture and Deployment in IoT. International Journal of Distributed Computing and Technology. 2025; 11(2): 1–9p.
69. Heena T. Shaikh. (2025). Improved Programming Model Using AI: Shifting from Imperative Coding to Declarative Intent. International Journal of Software Computing and Testing. 11(2): 1–9p. Available at: https://journalspub.com/publication/ijsct/article=22151/
70. Heena Shaikh. (2025) Collaborative Approaches in Using Satellite Data for Climate Action: A study. International Journal of Atmosphere. 2(2): 1–9p. Available at: https://journals.stmjournals.com/article/article=2025/view=234886/
71. Shaikh Heena T, Kazi Kutubuddin Sayyad Liyakat. (2025). The Versatility of the IC 741 in Electronic Sensor System Design. International Journal of Analog Integrated Circuits. 2025; 11(2): 8–13p. Available at: https://journalspub.com/publication/ijaic/article=23144/
72. Sayyad Liyakat. (2025) Navigating the Antenna Frontier for Emerging IoT Technologies. International Journal of VLSI Circuit Design & Technology. 2025; 3(2): 1–10p. Available at: https://journals.stmjournals.com/ijvcdt/article=2025/view=235614
73. K. K. S. Liyakat, (2205). A Study on Side-Channel Attack Countermeasures in IoT Security using VHDL Programming, Journal of VLSI Design and Signal Processing, vol. 11, no. 3, pp. 27-36, Dec. 2025. Available at: https://matjournals.net/engineering/index.php/JOVDSP/article/view/2897
74. Sayyad Liyakat. (2025). Hybrid Intelligence (HI) in Cyber Security: A Study. International Journal of Wireless Security and Networks. 2026; 4(1): 1–9p.
75. Heena T.Shaikh, Kazi Sultanabanu. (2025). Cloud Security Using Machine Learning: A Study. International Journal of Distributed Computing and Technology. 2025; 11(2): 1–10p. Available at: https://journalspub.com/publication/ijdct/article=22139

76. H. T. Shaikh, (2025). The Future of Radar Antenna Design: A Study, Advance Research in Communication Engineering and its Innovations, vol. 2, no. 3, pp. 18-28, Dec. 2025. Available at: https://matjournals.net/engineering/index.php/ARCEI/article/view/2913
77. Heena T. Shaikh (2025). 4 x 4 Multi-Band MIMO Antenna: A Study. International Journal of Microwave Engineering & Technology. 2025; 11(2): 1–11p.
78. Heena T. Shaikh, Pathan M. Ibrahim, (2025). A Study on the Future of Industrial Wastewater Treatment Plant: Trends and Innovations. International Journal of Chemical Engineering and Processing. 2025; 11(2): 1–13p. Available at: https://journalspub.com/publication/ijocep/article=22386/
79. Heena T. Shaikh. (2025). e-Kidney Filtration System (EKS) Using Sensor: A Study. International Journal of Chemical Separation Technology. 2025; 11(2): 1–10p.
80. Sayyad Liyakat.(2025). Building a Secure IoT Ecosystem with TRNGs and VHDL. Journal of Telecommunication and Emerging Technologies. 2025; 11(2): 1–8p.
81. Milind Shivaji Kadam, Vaishnavi Gopal Shirsikar, N. N. Shaikh, Aditi Dinanath Shahane. (2025). A Study in Leveraging Deep Learning and IoT Arrays for Dynamic, Hyper-Local Atmospheric Intelligence. International Journal of Atmosphere. 2025; 2(2): 50–62p. Available at: https://journals.stmjournals.com/article/article=2025/view=234909/
82. Shaikh Heena Tajoddin. (2025). Carbon-Based Supercapacitors Evolutionizing EVs. Journal of Materials & Metallurgical Engineering. 2025; 15(3): 66–76p. Available at: https://journals.stmjournals.com/article/article=2025/view=235071/
83. Sayyad Liyakat. (2025). Epidemiology and Transmission of Infectious Diseases Study Using Machine Learning. International Journal of Pathogens. 2025; 2(2): 10–20p. Available at: https://journals.stmjournals.com/article/article=2025/view=234948/
84. Sultanabanu, Shaikh Heena T. (2025). A Study on IoT and AI for Predictive Modeling and Control of Infectious Disease Transmission. International Journal of Pathogens. 2025; 2(2): 1–9p. Available at: https://journals.stmjournals.com/article/article=2025/view=234953/
85. K Kazi, Sayyad Liyakat, (2025). VHDL Programming for Secure Bootloaders in IoT Security. International Journal of VLSI Circuit Design & Technology. 2025; 03(01):19-28. Available from: https://journals.stmjournals.com/ijvcdt/article=2025/view=206693
86. Jadhav Vaibhavi Kishor. (2025). Robust Access Control Mechanisms Using VHDL Programming for IoT Security. Journal of VLSI Design Tools and Technology. 2025; 15(02):6-19. Available from: https://journals.stmjournals.com/jovdtt/article=2025/view=224414
87. Heena T Shaikh, Innovating IoT Security: VHDL as a Solution for Bootloader Vulnerabilities. International Journal of Microelectronics and Digital integrated circuits. 2025; 11(02): -p. Available from: https://journalspub.com/publication/ijmdic/article=23170/
88. Heena T Shaikh. (2026). Multi-Layered AI-Driven Security in Wireless Ecosystems. International Journal of Wireless Security and Networks. 2026; 4(1): 21–28p.
89. Sayyad Liyakat. Integrated, Geospatial Risk Assessment of Air, Water, and Soil Pollution Impacts on Agricultural Sustainability using Advanced Digital Technologies. International Journal of Environmental Noise and Pollution Control. 2025; 03(02):28-37. Available from: https://journals.stmjournals.com/ijenpc/article=2025/view=230868
90. Heena T Shaikh. Study on Antibiotic Resistance: An Analysis of Molecular Mechanisms and Therapeutic Implications. International Journal of Antibiotics. 2026; 3(1): 9-21p.
91. V. Maske, S. Pauskar, V. Gundagi, S. H. T, "Two-Way Tracking System for Buses Augmented by Intelligent Sensor and VLSI Technology: A Study," Journal of VLSI Design and Signal Processing, vol. 12, no. 1, pp. 14-27, Jan. 2026. Available at: https://matjournals.net/engineering/index.php/JOVDSP/article/view/3038

92. Sayyad Liyakat. Study on Accelerating Threat of Emerging Infectious Diseases (EIDs) and Imperative for a Proactive, Interdisciplinary Global Health Security Framework. International Journal of Tropical Medicines. 2026; 3(1): 9–22p.
93. Heena T. Shaikh. (2026). A Study on Precision Blood Propulsion in Motor-Driven Artificial Hearts. Trends in Electrical Engineering. 2026; 16(1): 51–57p.
94. Heena T Shaikh. (2026). Multi-Layered AI-Driven Paradigm Shift in IoT Ecosystem Security. Journal of Communication Engineering & Systems. 2026; 16(1): 13–21p.
95. Heena T. Shaikh. Analysis of Machine Learning in Metal Processing: A Novel Prospect. Journal of Materials & Metallurgical Engineering. 2026; 16(1): 40–51p.
96. H. T. Shaikh and K. K. S. Liyakat, "A Study into Accurate Blood Pumping in Motor-powered Artificial Hearts," Advance Research in Power Electronics and Devices, vol. 3, no. 1, pp. 1-9, Feb. 2026.
97. Liyakat. A Technical Survey on Nanotechnology in Nanorobots. Journal of Nanoscience, Nanoengineering & Applications. 2026; 16(1): 14–21p. Available at: https://journals.stmjournals.com/article/article=2026/view=239242/
98. Vaishnavi Gopal Shirsikar, Aditi Dinanath Shahane,. A Study on Securing the Local Area Network with the Immutable Trust of Blockchain. International Journal of Distributed Computing and Technology. 2026; 12(1): 23–33p.
99. Heena T. Shaikh, (2026). A Study on Controlling Artificial Heart. Journal of Control & Instrumentation. 2026; 17(1): 14–23p.
100. H. T. Shaikh, and K. K. S. Liyakat, ―A Study on AI-powered Ultra-low Latency in 6G: A Blueprint for the Next-Generation Mobile Communication System‖, Advance Research in Communication Engineering and its Innovations, vol. 3, no. 1, pp. 29-41, Mar. 2026.
101. Dhyvarkonda Udaykiran Tulshidas, Pranit Sunil Paul,. Revolutionizing School Schedules: An Arduino-Based Automatic Class Bell System with Real-Time Precision. Journal of Control & Instrumentation. 2025; 16(02):35-44. Available from: https://journals.stmjournals.com/joci/article=2025/view=213292
102. Liyakat. (2026). T-Flip-Flop Implementation using Quantum-dot Cellular Automata. Journal of Electronics Design and Technology, 24–32. Retrieved from https://matjournals.net/engineering/index.php/JEDT/article/view/3282
103. Heena T. Shaikh. Thin Film Technology in Sensor Manufacturing – A Technical Discussion. Journal of Thin Films, Coating Science Technology and Application. 2026; 13(1): 48–58p.
104. Heena T Shaikh. A study on CMOS Operational Amplifier in Sensor Development. Journal of VLSI Design Tools and Technology. 2026; 16(01):-. Available from: https://journals.stmjournals.com/jovdtt/article=2026/view=238929
105. Heena T. Shaikh. An Overview on Energy Harvesting Using Piezoelectric Material for Wi-Fi Systems. International Journal of Electro-Mechanics and Material Behavior. 2026; 4(1): 56– 63p.
106. K. K. S. Liyakat, T-Flip-Flop Implementation using Quantum-dot Cellular Automata‖, Journal of Electronics Design and Technology, vol. 3, no. 1, pp. 24-32, Mar. 2026.
107. H. T. Shaikh, "An Overview of Transforming IoT with Millimeter-Wave," Journal of RF and Microwave Communication Technologies, vol. 3, no. 1, pp. 18-28, Mar. 2026. Available at: https://www.matjournals.net/engineering/index.php/JoRFMCT/article/view/3327
108. Liyakat, (2025). Roll of AI and Sensor in Aerospace: A Study, Journal of Advance Research in Aeronautics and Space Science, Vol. 12 No. 3&4. Available at: https://adrjournalshouse.com/index.php/Jof-aeronautics-space-science/article/view/2589
109. Heena T. Shaikh. The Future of Farming with IoT-Operated Drones. International Journal on Drones. 2026; 2(1): 20–26p. Available at: https://journals.stmjournals.com/article/article=2026/view=239864/

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110. Sayyad Liyakat. An Overview on Quantum dot Technology in Temperature Sensor Design. Journal of Electronic Design Technology. 2026; 17(1): 10–17p.
111. Shaikh Heena T. Sensors-Based Electric Machine Design for Industry. International Journal of Electrical Machine Analysis and Design. 2026; 4(1): 1-10p. Available at: https://journals.stmjournals.com/article/article=2026/view=240174/
112. Heena T Shaikh. An Overview on Intelligent Operating Systems (iOS). Journal of Operating Systems Development & Trends. 2026; 13(1): 21–28p. Available at: https://journals.stmjournals.com/article/article=2026/view=242357/
113. Liyakat, A Study of Self-Healing Polymer Nanocomposites with Filler Effect. International Journal of Applied Nanotechnology. 2026; 12(1): 26-35p. Available from: https://journalspub.com/publication/uncategorized/article=24828
114. H.T. Shaikh, and K. K. S. Liyakat, ―A Study on AI-driven Security Concerns in the Wireless Ecosystem, Research & Review: Electronics and Communication Engineering, vol. 3, no. 1, pp. 27-38, Apr. 2026.
115. Heena T. Shaikh. Optimization of Pesticide Requirement Calculations for IoT- Operated Hexacopter Delivery Systems. International Journal on Drones. 2026; 2(1): 8–14p. Available at: https://journals.stmjournals.com/ijd/article=2026/view=239857/
116. Heena T. Shaikh. (2026). A Study on AI-driven Security Concerns in the Wireless Ecosystem. Research & Review: Electronics and Communication Engineering, 27–38. Retrieved from https://matjournals.net/engineering/index.php/RRECE/article/view/3446
117. Liyakat. Nano-Chemical Revolution in Vaccinology: A Study. Research & Reviews: A Journal of Immunology. 2026; 16(1): 26–38p.
118. Heena T Shaikh, An investigation into the use of nanotechnology in medical-military applications. International journal of Nanobiotechnology. 2026; 12(1): -p. Available from:https://journalspub.com/publication/uncategorized/article=25271
119. Liyakat, An Overview on Nanomaterial-Enabled Electronic Skin for Physiological Sensing and Biomedical Use. International journal of Nanobiotechnology. 2026; 12(1): -p. Available from:https://journalspub.com/publication/uncategorized/article=25280
120. Heena T. Shaikh. A Technical Overview of Nanorobots Using Nanotechnology. International Journal of Nanomaterials and Nanostructures. 2026; 12(1): 31–38p. Available from:https://journalspub.com/publication/uncategorized/article=25222
121. Heena T. Shaikh. A Survey on Hydrogen Storage System using Alloys. International Journal of Energetic Materials. 2026; 12(1): 13–19p.
122. Kutubuddin. Intelligent Trajectories: Harnessing Artificial Intelligence for Next Generation Missile and Propellant Design. International Journal of Energetic Materials. 2026; 12(1): 20–26p.
123. Kutubuddin. A Review of Electrical Conduction, Optical Sensing, and Semiconductor Device Innovations. Journal of Semiconductor Devices and Circuits. 2026; 13(1): 10–18p.
124. Heena T Shaikh. Dual-Wavelength and Tunable Fiber Lasers for Microwave Photonic Applications. Journal of Microwave Engineering & Technologies. 2026; 13(1): 17–25p.
125. Heena Shaikh, Kazi Kutubuddin Sayyad Liyakat. Electromagnetic Field Effects on Biological Systems and Safety Evaluation of Microwave Exposure. Journal of Microwave Engineering & Technologies. 2026; 13(1): 26–33p.
126. Heena T Shaikh. An Overview on Microwave Remote Sensing for Earth Observation. Research & Reviews: Journal of Space Science & Technology. 2026; 15(1): 21–25p.
127. Heena T Shaikh. An Overview on Harnessing Microwave Frequencies for Next-Generation Satellite Communication and Earth Observation. Research & Reviews: Journal of Space Science & Technology. 2026; 15(1): 1–6p.

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128. Sayyad Liyakat. AI-Driven IoT in Self-Healing Grid Power Systems: A Study. International Journal of Electrical Power System and Technology. 2026; 12(1): 15–24p.
129. Heena T Shaikh. An Overview on Microwave Remote Sensing for Earth Observation. Research & Reviews: Journal of Space Science & Technology. 2026; 15(1): 21–25p.
130. Heena T S, Liyakat K K S. A study on Cognitive Signal Processing for Terahertz Horizons: The Role of AI in Enabling 7G Communication Networks. J Adv Res Sig Proc App 2025; 7(2): 8-12.
131. Liyakat K K S. Design and Optimisation of a Robust D-Flip Flop in Quantum-dot Cellular Automata Technology using QCA Designer. J Adv Res Microelec VLSI 2025; 8(2): 14-24.
132. Sayyad Liyakat. AI Driven IoT Based Satellite Remote Sensing System: KSK Approach in Satellite Remote Sensing. International Journal of Satellite Remote Sensing. 2026; 4(1): 50–57p.
133. Sayyad Liyakat, Heena T Shaikh. Nuclear Reactor Safety Using Seismic and Natural Disaster Protection: A Study. Journal of Nuclear Engineering & Technology. 2026; 16(1): 25–34p.
134. Heena T Shaikh. Photonic Diagnostics: Harnessing Optical Sensing for Non-Invasive Assessment of Coronary Obstruction. International Journal of Optical Innovations & Research. 2026; 4(2): 25–30p.
135. Heena T Shaikh. A Comprehensive Review of CMOS Analog Circuit Design Techniques for Low-Power VLSI Systems. International Journal of VLSI Circuit Design & Technology. 2026; 4(1): 12–24p.
136. Liyakat. Performance Improvement of Standalone Solar PV Pumping System Using Supercapacitor. International Journal of Electrical Power and Machine Systems. 2026; 4(1): 62–70p.
137. Heena Shaikh. Enhancing Solar Water Pumping in arid Regions with Hybrid Super Capacitor and Battery Storage. International Journal of Electrical Power and Machine Systems. 2026; 4(1): 18–29p.
138. S. H. Tajoddin, P. S. Kolhe, and K. K. S. Liyakat, "An Overview of Microcontroller-based Intelligent Pill Box Employing Sensors by E-mail Facility," Journal of Electronics Design and Technology, vol. 3, no. 2, pp. 13-23, May 2026.
139. Sayyad Liyakat. An AI-Driven IoT Framework for Autonomous Quality Assurance in Optical Lens Manufacturing. International Journal of Optical Innovations & Research. 2026; 4(1): 36–41p.
140. Sayyad Liyakat. A Study on the Use of AI and Sensors in Aerospace. Journal of Aerospace Engineering & Technology. 2026; 16(1): 24–33p.
141. Heena T. Shaikh. An Overview of Reimagining MOSFET as Precision Thermal Sensor. International Journal of Analog Integrated Circuits. 2026; 12(1): 8–13p.
142. Heena Shaikh. An Overview on VLSI based Hardware Security in IoT Node. International Journal of VLSI Circuit Design & Technology. 2026; 4(1): 51–56p.
143. Heena T Shaikh, Kazi Kutubuddin Sayyad Liyakat. Intelligent Electromagnetic Synthesis: An AI-Driven IoT Framework for Adaptive Antenna Design in Missile Navigation. International Journal of Radio Frequency Innovations. 2026; 4(1): 1–15p.
144. Heena T Shaikh, Kazi Kutubuddin Sayyad Liyakat. A Study on AI-Driven Multi-Layered Defense in 6G Ecosystems. International Journal of Radio Frequency Innovations. 2026; 4(1): 1–9p.
145. Liyakat K K S. A Study on Intelligent Missile Launching, IoT based SightandShoot Capability, Journal of Advanced Research in Aeronautics and Space Science, 2026; 13(1&2): 20-25. Available at: https://adrjournalshouse.com/index.php/Jof-aeronautics-space-science/article/view/2729
146. Heena T. Shaikh, Kazi Kutubuddin Sayyad Liyakat. An Overview of AI in Thermal Behavior of Polymers and Composite Materials. International Journal of Composite and Constituent Materials. 2026; 12(1): 12–16p.
147. Kazi Kutubuddin Sayyad Liyakat. A Study of Delta Modulation Techniques for Bandwidth-Efficient Signal Transmission. International Journal of Digital Communication and Analog Signals. 2026; 12(1): 31–43p.
148. Kazi Kutubuddin Sayyad Liyakat. AI-Driven IoT Systems for Bovine Genetic Health and Fertility. International Journal of Animal Biotechnology and Applications. 2026; 12(1): 52–58p.

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149. Heena T. Shaikh, Kazi Kutubuddin Sayyad Liyakat. An Investigation into the Use of Nanotechnology in Medical-Military Applications. International Journal of Nanobiotechnology. 2026; 12(1): 43–52p.
150. Kazi Kutubuddin Sayyad Liyakat. An Overview on AI Driven IoT in Atmospheric study: KSK Approach Study. Emerging Challenges for Sustainable Livestock Production. International Journal of Atmosphere. 2026; 3(2): 1–6p.