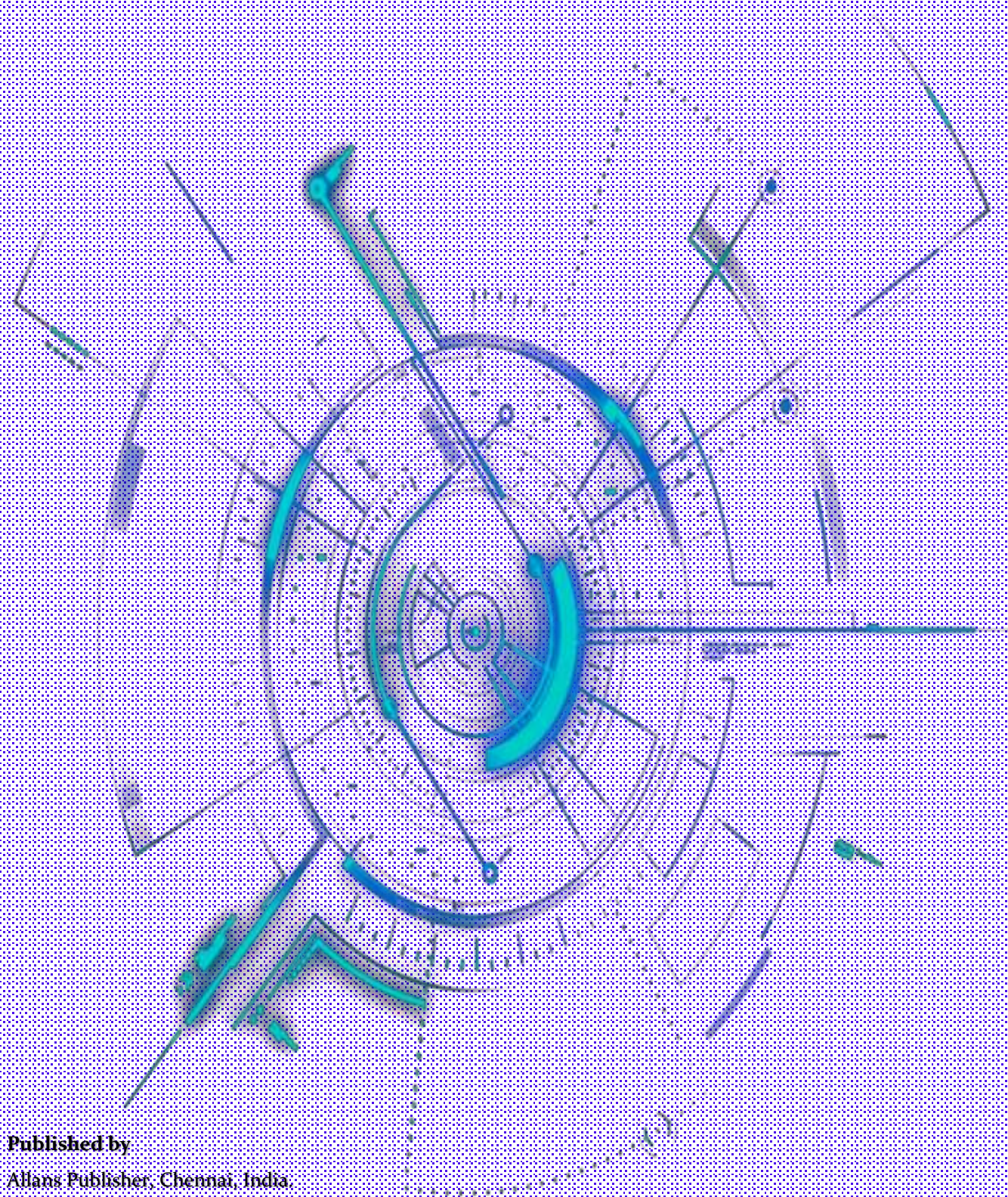


# Journal of Emerging Applied Sciences, Engineering, and Technology (JEASET)

(A Bi-monthly Journal)

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### **About the Journal**

The *Journal of Emerging Applied Sciences, Engineering, and Technology (JEASET)* is an interdisciplinary, peer-reviewed scholarly journal that publishes original research articles, review papers, and technical contributions in applied sciences, engineering, and emerging technologies. The journal aims to disseminate high-quality research that bridges theoretical advances and real-world applications, addressing contemporary scientific, technological, and societal challenges.

#### ***Primary Journal Information***

Item	Details
Starting Year	2025
Frequency	<i>Bi-monthly (Six issues per year)</i>
Format	<i>Online and Print (Hybrid)</i>
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#### ***Scope of the Journal***

JEASET covers a broad spectrum of disciplines, including but not limited to:

- Emerging trends in mechanical, civil, electrical, electronics, and computer engineering
- Applied research in physics, chemistry, biology, and environmental sciences
- Artificial intelligence, machine learning, deep learning, blockchain, robotics, nanotechnology, and IoT



- Sustainable engineering solutions addressing climate change, energy efficiency, and resource management
- Cybersecurity, digital transformation, and secure computing systems
- Data science and AI applications in healthcare, finance, manufacturing, and smart cities
- Health technology innovations including biomedical engineering, telemedicine, bioinformatics, and medical devices

### ***Vision***

To be a globally recognized platform that integrates applied sciences, engineering innovation, and technological advancement to foster sustainable development through interdisciplinary research.

### ***Mission***

JEASET aims to:

- Promote the application of emerging technologies to solve real-world problems
- Encourage interdisciplinary and industry-oriented research
- Support innovations that contribute to sustainable development and societal well-being
- Facilitate collaboration among academia, industry, and government

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## **Editorial Team**

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## EDITORIAL NOTE

**Dear Readers, Researchers, and Esteemed Colleagues,**

It is with great pride and enthusiasm that we present the current issue of the ***Journal of Emerging Applied Sciences, Engineering, and Technology (JEASET)***. This issue brings together a curated collection of high-quality research articles that reflect the journal's core mission—advancing knowledge at the intersection of applied sciences, engineering innovations, and emerging technologies.

In a rapidly evolving global landscape driven by digital transformation, sustainability imperatives, and intelligent systems, the role of applied research has become more critical than ever. JEASET serves as a scholarly platform that bridges theoretical foundations with real-world applications, fostering research that addresses contemporary scientific, industrial, and societal challenges.

### Highlights of This Issue

- **Emerging Technologies and Intelligent Systems:**  
Several articles explore advancements in artificial intelligence, machine learning, and data analytics, offering novel frameworks and algorithms that enhance efficiency, accuracy, and decision-making across engineering applications.
- **Applied Engineering and System Design:**  
Research focusing on smart systems, electronics, and automation demonstrates how engineering innovations are addressing challenges in energy efficiency, communication, and industrial processes.
- **Healthcare and Biomedical Applications:**  
Contributions in this issue highlight the growing convergence of engineering and healthcare, showcasing technology-enabled solutions for diagnostics, monitoring, and patient-centric care.
- **Sustainability and Environmental Applications:**  
Articles addressing sustainable engineering practices and environmentally conscious technologies reflect the journal's emphasis on responsible innovation and long-term societal impact.

A defining characteristic of JEASET is its interdisciplinary orientation. This issue demonstrates how concepts from applied sciences, engineering, and technology converge—where data science supports healthcare innovation, automation enhances sustainability, and computational models inform real-world system design. Such cross-domain integration is essential for addressing complex modern challenges.

We express our sincere appreciation to:

- **The Authors**, for their valuable contributions and commitment to high-quality research.
- **The Reviewers**, whose expert insights and constructive feedback ensured the scientific rigor and clarity of the published works.

- **The Editorial Board**, for their guidance, dedication, and support in shaping the journal's academic direction.
- **Institutional and Technical Support Teams**, for their role in the smooth execution of the editorial and publication process.

JEASET is committed to evolving as a global forum for impactful applied research. We invite researchers, academicians, industry professionals, and innovators to engage with the work published in this issue and to contribute to future volumes.

As the world navigates challenges related to technology adoption, sustainability, healthcare transformation, and digital intelligence, applied research published in journals like JEASET plays a pivotal role in shaping solutions that matter.

We warmly welcome submissions in the form of:

- Original research articles
- Applied and interdisciplinary studies
- Technological innovations and system implementations
- Review articles addressing emerging trends
- Research with clear industrial or societal relevance

Scientific progress is a collective endeavor built upon collaboration, curiosity, and critical inquiry. The articles in this issue represent meaningful steps toward that progress. We hope they inspire further research, foster collaborations, and contribute to the advancement of applied sciences and engineering.

Thank you for your continued interest and support of **JEASET**. We look forward to your engagement and to bringing you more impactful research in forthcoming issues.

**Dr.Lordwin Cecil Prabhaker**

**Editor-in-Chief**

*Journal of Emerging Applied Sciences, Engineering and Technology (JEASET)*

Chennai, India

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