Editorial

Inaugural Issue of the *Journal of Emerging Technologies with Industrial Applications*

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Welcome to the *Journal of Emerging Technologies with Industrial Applications*, a new and dynamic international journal dedicated to advancing research on emerging technologies and their industrial applications.

Rapid technological progress has driven unprecedented advances in the development of next-generation technologies. In recent years, a wide range of novel and promising technologies and applications has emerged. Industries worldwide face continual pressure to adopt and integrate these technologies to remain competitive. Today, we stand at the threshold of a major technological evolution enabled by a new set of foundational technologies. This evolution increasingly requires the integration and convergence of multiple emerging technologies, giving rise to a new generation of technological applications. These technologies originate from diverse disciplines, including Artificial Intelligence (AI), 5G/6G communications, quantum computing, and many others. As a result, existing industrial frameworks are being fundamentally reshaped by AI, 5G/6G, quantum computing, and related advances. The emergence of a new technological era is now clearly underway.

Emerging technologies are those that are still under development or rapidly evolving and that possess the potential to influence industries and society significantly. They frequently arise from the convergence of multiple fields and extend the boundaries of what is currently achievable. Emerging technologies are inherently complex, often producing both predictable and unforeseen consequences. As such, emerging technology is not solely a technical subject; it is fundamentally a systems-level research topic.

The *Journal of Emerging Technologies with Industrial Applications* welcomes contributions addressing the foundational principles, technical developments, and practical applications of emerging technologies. The journal also embraces complex, cross-disciplinary research that reflects the multifaceted nature of emerging technologies. Our focus is on key emerging technologies and their relevance to industrial applications.

We encourage submissions that apply techniques from a wide range of disciplines, including computational science, physical sciences, life sciences, mathematical sciences, electrical and electronic engineering, and manufacturing engineering. From time to time, the journal may also publish white papers addressing policies, standards, and best practices.

With this issue, we inaugurate a new journal dedicated to reporting the rapidly accelerating advances and future trends in emerging technologies. This inaugural issue features four papers, each highlighting the critical role and impact of emerging technologies.

The *Journal of Emerging Technologies with Industrial Applications* provides a platform for disseminating cutting-edge research in this strategically important field. Distinguished scholars from leading global research institutions—including the Russian Academy of Sciences, the European Academy of Sciences, the Russian Academy of Engineering, the Chinese Academy of Engineering, and the Canadian Academy of Engineering, among others—have joined our advisory and editorial boards, underscoring the journal's international scope and scholarly excellence.

Conflicts of Interest

The author declares no conflict of interest.

Use of AI and AI-Assisted Technologies

No AI tools were utilized for this paper