

Editorial: Bridging Trust, Artificial Intelligence, and Human Well-being through Emerging Technologies

Editor-in-Chief

Abstract

The inaugural issue presents four high-quality contributions spanning trustworthy IIoT systems, AI-assisted medical diagnosis, hybrid healthcare analytics, and brainwave-based stress detection. Together they demonstrate the convergence of artificial intelligence, machine learning, image processing, cybersecurity, and biomedical engineering toward secure and human-centred intelligent systems.

Keywords

Editorial; Artificial Intelligence; IIoT; Healthcare; Machine Learning; Deep Learning

Editorial

It is our privilege to present the inaugural issue of The *Journal of Information and Computation* (JIC), published by Science Eve. This issue showcases research addressing secure industrial systems, intelligent healthcare, and technologies that improve human well-being.

The opening article examines trust mechanisms for Industrial Internet of Things software authenticity. As industries increasingly rely on connected devices and cyber-physical systems, ensuring software integrity and trust has become fundamental. The paper reviews current challenges and emerging solutions that strengthen resilience against cyber threats.

The second contribution focuses on automated detection of knee osteoarthritis from X-ray images using image processing and deep learning. Early diagnosis is essential for improving patient outcomes, and intelligent diagnostic systems can support clinicians with faster and more consistent decision-making.

The third article proposes a hybrid framework for detecting Polycystic Ovary Syndrome by integrating blood profiles with ultrasound imaging. This work demonstrates how multimodal data fusion can enhance diagnostic accuracy and support precision medicine.

The final article explores brainwave biofeedback for stress detection. Mental health monitoring is an increasingly important research area, and non-invasive brain-signal analysis offers promising opportunities for personalized healthcare and preventive medicine.

The *Journal of Information and Computation* (JIC), published by Science Eve Although these studies span different domains, they share common themes: intelligent decision support, secure digital ecosystems, interdisciplinary collaboration, and responsible innovation. Collectively, they demonstrate how artificial intelligence is transforming both industrial operations and healthcare delivery.

We express our sincere appreciation to the authors for their valuable contributions and to the reviewers for their dedication to maintaining high academic standards. We also thank the editorial board and publication team for their efforts in launching this inaugural issue.

We hope this collection inspires further research and collaboration, encouraging innovations that contribute to scientific advancement and societal well-being.