

Editorial

We are pleased to release the first issue of the seventeenth volume of the **Journal of Information Security Research** with the following papers.

In the opening paper, “**Sector-Aware Cyber Threat Intelligence: A Security-Enhanced RAG Framework for Precision Threat Analysis**,” the authors presented a comprehensive framework for enhancing Cyber Threat Intelligence (CTI) analysis using a domain specific, security aware Retrieval Augmented Generation (RAG) architecture. By combining empirical threat trends, structured knowledge, and robust AI reasoning, the framework offered a scalable, trustworthy solution for next generation CTI that balances tactical eCrime defence with strategic awareness of nation-state threats.

In the second paper, “**An Improved Synthetic Weighted Naïve Bayes Framework for Probabilistic Intrusion Detection and Cloud Forensics**,” the author discusses a probabilistic intrusion detection and computer forensics framework tailored for cloud and networked environments. The outlined approach integrates Bayesian networks with an Improved Synthetic Weighted Naïve Bayes (ISWNB) classifier and value-sensitive weighting, thereby relaxing the strict independence assumption of standard Naïve Bayes models. The experimental results proved that the ISWNB achieves an average classification accuracy of 98.76%, outperforming baseline models such as J48, standard Naïve Bayes, and other weighted variants.

In the last paper, “**Integrating Enterprise Risk Management in Cross-Border Energy: A Multi-Method Approach to Strategic Decision-Making in the Digital and Low-Carbon Era**,” the author studied the evolution and strategic importance of Enterprise Risk Management (ERM) in today’s volatile global environment. Enterprise Risk Management in this paper is treated as a tool for risk mitigation, a driver of value creation, innovation, and resilience, particularly in sectors such as energy, undergoing digital and low-carbon transitions. The experimental results confirmed that combining quantitative risk models with qualitative governance practices strengthens strategic decision making in uncertain, globalised markets.

We hope these papers represent high level, innovative research in security systems.

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