

PREFACE TO THE EDITION

It is with great enthusiasm that we present the inaugural issue of the *Peer-Reviewed Journal of Computer Science (PRJCS)*. The establishment of this journal reflects the growing need for a scholarly platform that brings together research addressing the rapidly evolving landscape of computing technologies, digital infrastructure, and cybersecurity challenges. PRJCS aims to foster interdisciplinary dialogue, promote applied and theoretical innovation, and disseminate research that bridges academic insight with real-world technological practice.

The contributions featured in this first issue collectively highlight key developments shaping contemporary computing environments, particularly in the areas of data processing, cybersecurity, cloud infrastructure, and modern software deployment architectures. These studies demonstrate how advances in computer science are increasingly driven by the demands of large-scale data systems, distributed computing, and the need for resilient digital security frameworks.

A central theme in this issue is the transformation of organizational decision-making through advanced data technologies. The article on **real-time data processing** examines the architectures and technologies that enable organizations to analyze streaming data with minimal latency. By exploring tools such as distributed stream-processing platforms and presenting industry case studies, the study highlights how real-time analytics enhances responsiveness, operational efficiency, and strategic decision-making in data-driven environments.

Cybersecurity forms another critical focus of the issue. The article on **Zero Trust security architecture** presents a systematic framework for implementing modern security strategies that move beyond traditional perimeter-based models. By emphasizing identity verification, continuous monitoring, and micro-segmentation, the study demonstrates how organizations can strengthen defenses against increasingly sophisticated cyber threats. Complementing this technical perspective is the research on **phishing vulnerabilities and employee behavior**, which examines the human factors that contribute to security breaches. By integrating behavioral science insights with training methodologies, the paper proposes practical strategies for improving organizational resilience against social engineering attacks.

The issue also addresses the evolving architecture of digital infrastructure. The comparative study of **cloud versus on-premises computing** provides a structured evaluation of deployment models across dimensions such as scalability, cost, performance, and regulatory compliance. This analysis highlights the importance of strategic infrastructure planning and illustrates how hybrid solutions often provide balanced advantages for modern enterprises.

Finally, the article on **Kubernetes and container orchestration** explores one of the most influential technologies in contemporary software engineering. By providing practical guidance on deploying and managing containerized applications, the study demonstrates how orchestration platforms enable scalable, portable, and efficient application development in distributed computing environments.

Together, the articles in this inaugural issue reflect the broad scope and applied relevance of modern computer science research. They address both technical innovations and the organizational challenges associated with implementing advanced computing systems. Through this interdisciplinary perspective, PRJCS seeks to contribute to ongoing scholarly and professional conversations about the future of digital technologies.

The editorial board extends its sincere appreciation to the authors and reviewers whose dedication and expertise have made this first issue possible. We hope that PRJCS will serve as a vibrant forum for researchers, practitioners, and educators committed to advancing knowledge and innovation in computer science.

Dr. Mini T V
Chief Editor

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