

PREFACE TO THE EDITION

The rapid evolution of computing technologies continues to reshape the ways organizations design software, manage digital infrastructure, and harness emerging innovations. The current issue of the *Peer-Reviewed Journal of Computer Science (PRJCS)* brings together a set of scholarly contributions that explore contemporary developments across software engineering, artificial intelligence, cybersecurity practices, networking performance, and emerging computational paradigms. Collectively, the articles in this issue highlight the dynamic interplay between theoretical advancements and practical implementations in modern computing environments.

The opening article, “**Low-Code Development: When It Works and When To Code,**” examines the growing adoption of low-code development platforms in enterprise software environments. By comparing low-code tools with traditional programming approaches across multiple application categories, the study identifies scenarios where visual development environments significantly accelerate productivity while also acknowledging contexts where conventional coding remains indispensable. The proposed decision framework provides valuable guidance for organizations evaluating development strategies in an increasingly platform-driven ecosystem.

Security integration in software development forms the focus of the second article, “**Integrating Security Into Development: DevSecOps Fundamentals.**” Recognizing the limitations of traditional security models that treat protection mechanisms as a final checkpoint, the study explores the DevSecOps approach that embeds security practices throughout the development lifecycle. By mapping security activities to different stages of the development pipeline, the article demonstrates how organizations can improve vulnerability management, reduce security risks, and maintain rapid deployment cycles.

The third contribution, “**AI Tools for Small Businesses: Ten Practical Applications,**” reflects the expanding accessibility of artificial intelligence technologies. With the proliferation of software-as-a-service AI platforms, even small organizations can now leverage capabilities once reserved for large enterprises. This article evaluates practical AI applications across several business functions, including marketing, customer service, financial operations, and human resource management, illustrating how carefully selected tools can enhance operational efficiency and decision-making.

Advancing into the frontier of next-generation computing, “**Quantum Computing: A Beginner's Guide to Future Processing**” provides an accessible yet comprehensive introduction to quantum computing principles. The article explains foundational concepts such as qubits, superposition, and entanglement while examining current hardware approaches and potential application domains. It also discusses the implications of quantum advancements for cryptographic systems and the emerging field of post-quantum security.

Completing the issue, “**Performance Analysis of TCP and UDP in Wireless LANs**” investigates the behavior of transport-layer protocols within wireless networking environments. Using simulation-based experimentation across different IEEE 802.11 standards, the study analyzes throughput, latency, packet loss, and reliability characteristics of TCP and UDP protocols. The findings offer practical insights for network designers and application developers working within increasingly wireless-centric infrastructures.

Together, the contributions in this issue reflect the diversity and depth of contemporary research in computer science. From development methodologies and secure software practices to artificial intelligence adoption, quantum technologies, and network performance analysis, these studies illustrate how computing research continues to address both emerging challenges and practical technological needs.

The editorial team of *PRJCS* extends sincere appreciation to the authors for their valuable contributions and to the reviewers for their thoughtful evaluations that uphold the scholarly standards of the journal. It is our hope that the research presented in this issue will stimulate further inquiry, innovation, and collaboration within the global computer science community.

Dr. Mini T V
Chief Editor

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