

Foreword


Dear Readers, Contributors, and Colleagues,

It is with great pride that I introduce the second volume of the Journal of Artificial Intelligence and Computing Applications (JAICA). Building upon the momentum of our inaugural issue, this edition reaffirms our commitment to exploring the intersection of artificial intelligence and practical computing applications while expanding our vision with the introduction of new and thought-provoking contributions.

JAICA's mission extends beyond being a mere collection of scholarly articles. We aim to foster a dynamic community of researchers, practitioners, and enthusiasts united by a shared vision of advancing AI and computing technologies with meaningful, real-world impact. This vision is reflected in our inclusive approach, welcoming a wide array of contributions that range from comprehensive reviews to pioneering critiques and perspectives.

In this issue, we are pleased to present two insightful Short Narrative Reviews (SNRs). The first, titled "Machine Learning in Wireless Sensor Network Applications," delves into the integration of machine learning techniques in the domain of wireless sensor networks, highlighting both current trends and emerging challenges. The second article, "Convolutional Neural Networks for Identification of Forest Fires in Satellite Images," examines the application of convolutional neural networks (CNNs) in detecting forest fires, a critical area of research with significant environmental and societal implications.

Additionally, we are thrilled to debut our new section, Critical Perspectives and Position Papers (CPPP), which provides a platform for reflective, argument-driven discussions on AI's role in society. This section begins with two pioneering articles. The first, "Empathy, Accessibility, and Transparency in the Future of Artificial Intelligence: A Critical Perspective on Technology's Role in Modern Life," explores the dual nature of AI as a tool that can empower humanity while posing risks to creativity, community, and interpersonal connection. The second, "The eXplainable Artificial Intelligence Paradox in Law: Technological Limits and Legal



Transparency,” critically examines the challenges of aligning AI-assisted legal systems with ethical and procedural standards, advocating for a balance between technical performance and societal trust.

These articles collectively embody the spirit of JAICA by addressing pressing issues through rigorous analysis and creative exploration. The authors have skillfully navigated complex topics, offering valuable insights that contribute to our understanding of AI’s role in solving real-world problems.

I extend my sincere appreciation to our dedicated editorial team, the diligent reviewers who provided invaluable feedback, and the supportive members of the AAAIMX student chapter. I am also grateful to our editorial sponsor, Maikron, for their unwavering commitment to advancing scholarly research in AI. Most importantly, I want to thank the authors for their trust in JAICA and for contributing their exceptional work to this issue.

Looking ahead, I am excited about the future of JAICA and the journey we are on. With each issue, we move closer to our vision of becoming a beacon of innovation and excellence in the fields of artificial intelligence and computing.

Thank you for joining us on this journey.

Warmest regards,

Mauricio G. Orozco-del-Castillo

Editor-in-Chief

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