

Review of: "Generative Artificial Intelligence Using Machine Learning on Wireless Ad Hoc Networks"

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Potential competing interests: No potential competing interests to declare.

The paper presents a novel approach to enhancing wireless Ad Hoc networks by leveraging Generative Artificial Intelligence (GenAI) and machine learning techniques. This study stands out for its innovative application of generative neural networks, such as Multilayer Perceptron (MLP) and Radial Basis Function (RBF) networks, specifically aimed at improving network efficiency and reducing blind spots. The integration of GenAI in this context is relatively new, providing a fresh perspective on optimizing network infrastructure and connectivity.

One of the key strengths of the paper is its comprehensive methodology, which combines various advanced technologies, including Cloud Computing, Edge Computing, and Software Defined Networks. This holistic approach not only addresses multiple facets of network performance but also ensures a practical framework that can be applied to real-world scenarios. The emphasis on reducing blind spots through optimized access point placement is particularly noteworthy, as it directly tackles a common issue in wireless networks, enhancing overall connectivity and user experience.

The study's thorough review of related work and detailed explanation of experimental setup and metrics selection underscore the authors' deep understanding of the field. However, the paper could establish a clearer link between the results and the research objectives. Additionally, while the abstract and conclusion provide a good summary of the study, they could be enhanced by more explicitly stating the unique contributions and potential implications of the findings.

In summary, this paper makes a significant contribution to the field of wireless network optimization through its innovative use of GenAI and comprehensive integration of multiple advanced technologies. By emphasizing the novel aspects and practical applications of the research, the authors provide valuable insights that could pave the way for future advancements in wireless network design and performance.