

# Image Transmission in Wireless Sensor Network using OFDM

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## ABSTRACT

This paper explores cutting-edge advancements in electronics and communication engineering, focusing on quantum communication, 6G networks, neuromorphic computing, and other emerging technologies such as e-textiles and terahertz communications. It highlights significant progress in quantum-encrypted networks, energy-efficient neuromorphic chips, integrated photonics, and novel paradigms such as analog machine learning and memristors. Additionally, lesser-known but impactful technologies like Orbital Angular Momentum multiplexing and molecular communication are reviewed for their transformative potential in the coming decade.

**Keyword:** Energy-Efficient Neuromorphic Chips, Integrated Photonics, Analog Machine Learning, Memristors, Orbital Angular Momentum Multiplexing, Molecular Communication.