

AD-HOC networks and their applications in wireless communications

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Abstract: This topic focuses on AD-HOC networks, a type of mobile network that does not require a fixed infrastructure, which is particularly important in wireless communication applications. The objective is to analyze the theory and design an efficient AD-HOC network system to optimize data transmission capabilities between wireless devices. The research method combines theory with experimentation, including the evaluation of mathematical models and the implementation of specific applications on modern wireless platforms. The expected result is to provide a robust and flexible AD-HOC network system, contributing to improved communication performance in areas without fixed network infrastructure.

Keywords: AD-HOC network, wireless information applications, system design, mathematical model evaluation, experimental deployment