

# **Research on Alamouti code applied in cooperative wireless networks**

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**Abstract:** This topic focuses on researching and evaluating the effectiveness of Alamouti code when applied in cooperative wireless network systems. The context of the topic stems from the need to enhance wireless data transmission performance in multipath environments. The main objective is to optimize this communication method and build a model based on Alamouti code for application in cooperative wireless networks. The research methodology includes both theoretical analysis and practical experiments to evaluate the performance of the proposed solution. The expected results from the topic will provide evidence of the feasibility and potential benefits of using Alamouti code in cooperative wireless networks, contributing to enriching knowledge about wireless communication.

**Keywords:** Alamouti code, cooperative radio network, wireless communication