

Simulation study of cooperative wireless networks using Omnet++

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Abstract: This topic focuses on researching and implementing cooperative wireless local area network (WLAN) simulation, aiming to solve the problem of optimizing communication performance in mobile environments. The context of the topic is the rapid development of wireless technology, which requires new methods to enhance communication capabilities between wireless devices. The topic uses Omnet++ as a tool for model analysis and system testing. Through a combination of theoretical research and experimentation, the goal is to build an effective cooperative wireless network model. The expected results from this topic will contribute to the understanding of deploying wireless solutions in complex operating conditions.

Keywords: Wireless network simulation, Omnet++, Wireless cooperation, Communication performance, Mobile system