

Research on topology optimization techniques for MANET and development of a simulation application

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Abstract: This topic focuses on researching topology optimization techniques for MANET (Multi-hop Ad hoc Network) to improve data transmission performance. The objective is to develop a topology optimization solution based on modern algorithms, while building an experimental simulation application to evaluate the effectiveness of the proposed approaches. The combined theoretical and experimental methodology ensures the accuracy and practicality of the research. The expected outcome is to provide an optimized system for MANET, contributing to enhancing service quality in mobile and non-fixed spatial applications.

Keywords: MANET, Topology optimization, Simulation, Algorithm, Data transmission performance