

Cooperative communication in LTE networks.

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Abstract: This topic aims to analyze and propose effective cooperative communication methods in Long Term Evolution (LTE) networks. The practical context shows that optimizing communication protocols is an important issue for improving service quality. The objective of the research is to build a cooperative communication system based on automatic bandwidth allocation algorithms and efficient energy management. The applied methods include both theoretical research on coding and data distribution, as well as practical implementation in a mobile network environment. The expected results will provide feasible solutions for improving communication performance in LTE, making a significant contribution to the development of telecommunications technology.

Keywords: Cooperative communication, LTE network, Bandwidth allocation algorithm, Mobile energy