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(57) Abstract :
LABELLING, NETWORKING AND SIMULATION ANALYSIS The present invention relates to the development of the wireless network has made substantial use of Multi-Path, Multi-Hop (MPMH) communications. Its tremendous throughput makes it especially well-suited for transmitting large amounts of data. TCP-based protocols and rateless coding-based protocols are the two types of transport layer protocols that have been presented in the literature to provide congestion and end-to-end reliability control. The second, however, is overly active in utilizing the communication capacity and performs badly when coping with congestion, while the former is too cautious to investigate the MPMH networks' potential. We presented a novel network coding system, called Adjustable Batching Coding (ABC), to alleviate their shortcomings. It uses window size shrink and retransmissions to relieve congestion and redundancy coding to overcome random loss. The mathematical background of this project completely lies in the subject namely Graph Theory, in which a graph is denoted as G (V, E), here we consider the vertex as system and edges as the links. For example, resembles a network with one server and number of computers and number of links. In the statement , m and n are the number of systems in each network respectively. Wedge is the link between any two-star topologies. A network is completely a mathematical model of a star. In statement three interconnected networks and its limits to the number of systems is given. FIG.1

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