QoS-Guaranteed Wireless Broadcast Scheduling with Network Coding and Rate Adaptation
ABSTRACT

• This work studies QoS-guaranteed broadcast scheduling over wireless networks with network coding and rate selection capabilities, focusing on reducing broadcast completion delay while maximizing the number of packet receptions that satisfy heterogeneous deadline and reliability requirements.

• To begin with, a multi-rate graph model is constructed to formulate the optimal broadcast scheduling problem which is proved to be NP-hard.
EXISTING SYSTEM

• Network coding is critical to wireless broadcast for real-time applications.
• Most existing approaches make strong assumptions either on application requirements or on data transmission in order to facilitate formalization and solution.
• Those assumptions limit the applicability of previous approaches.
PROPOSED SYSTEM

• Then, an adaptive graph compression policy is proposed to reduce the computational burden significantly without sacrificing performance.
• Furthermore, an approximation framework is presented for each propagation.
• In the framework, the coding strategy and rate selection can be formulated as a complexity adjustable clique problem.
HARDWARE REQUIREMENTS

• Processor - Intel core i3
• RAM - 2B
• Hard Disk - 20 GB
SOFTWARE REQUIREMENTS

- Operating System : LINUX
- Tool : Network Simulator-2
- Front End : OTCL (Object Oriented Tool Command Language)
REFERENCE


