**New Topics ( To be selected from this list (1 to 14))**

# Performance Improvement of QoS-Enabled WLANs Using Adaptive Contention Window Backoff Algorithm

# Dynamically Tuning IEEE 802.11's Contention Window Using Machine Learning

# Joint MAC layer relaying and price based resource allocation in multihop wireless networks

1. [Efficient Cooperative MAC and Routing in Wireless Networks](https://www.semanticscholar.org/paper/Efficient-Cooperative-MAC-and-Routing-in-Wireless-Jacob-Shamna/fd15d1996f1e53bab51e068a9ff5864a0cc31683)
2. [Energy-Efficient Cooperative MAC Protocol Based on Power Control in MANETs](https://www.semanticscholar.org/paper/Energy-Efficient-Cooperative-MAC-Protocol-Based-on-Zhang-Anpalagan/c0cf8fd7b4fb4225ba6d18272f09ffbe789b1698)
3. [JOB](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3) *[SCHEDULING](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3)* [AND RESOURCE PLANNING IN](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3) *[WIRELESS](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3)* [SENSOR](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3) *[NETWORK](https://www.semanticscholar.org/paper/JOB-SCHEDULING-AND-RESOURCE-PLANNING-IN-WIRELESS-Ahmed-Morium/fd1eea039fe85a1ff5fdbe23b3cb734c365c91a3)*
4. [WEEP: weight based energy efficient](https://www.semanticscholar.org/paper/WEEP%3A-weight-based-energy-efficient-priority-of-in-Banerjee-Ghosh/8ee469c6a600d5e9b59186938dd15d4120803b2f) *[priority](https://www.semanticscholar.org/paper/WEEP%3A-weight-based-energy-efficient-priority-of-in-Banerjee-Ghosh/8ee469c6a600d5e9b59186938dd15d4120803b2f)**[scheduling](https://www.semanticscholar.org/paper/WEEP%3A-weight-based-energy-efficient-priority-of-in-Banerjee-Ghosh/8ee469c6a600d5e9b59186938dd15d4120803b2f)* [of data packets in mobile ad-hoc](https://www.semanticscholar.org/paper/WEEP%3A-weight-based-energy-efficient-priority-of-in-Banerjee-Ghosh/8ee469c6a600d5e9b59186938dd15d4120803b2f) *[networks](https://www.semanticscholar.org/paper/WEEP%3A-weight-based-energy-efficient-priority-of-in-Banerjee-Ghosh/8ee469c6a600d5e9b59186938dd15d4120803b2f)*
5. [Link quality and energy utilization based preferable](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d) *[next](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d)**[hop](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d)**[selection](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d)* [routing for](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d) *[wireless](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d)* [body area](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d) *[networks](https://www.semanticscholar.org/paper/Link-quality-and-energy-utilization-based-next-hop-Qureshi-Din/7dd4e92f114dfb2a18f93e4572a06bcb237e750d)*
6. [Distance and signal quality aware](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342) *[next](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342)**[hop](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342)**[selection](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342)* [routing protocol for vehicular ad hoc](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342) *[networks](https://www.semanticscholar.org/paper/Distance-and-signal-quality-aware-next-hop-routing-Qureshi-Bashir/2a4135a98277a50dd083bbbc404110b63060d342)*
7. *Selection* of an Efficient *Next* *Hop* Metric in *Wireless* Sensor *Networks* Using Fuzzy Logic
8. [A\* search based](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b) *[next](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b)**[hop](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b)**[selection](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b)* [for routing in opportunistic](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b) *[networks](https://www.semanticscholar.org/paper/A*-search-based-next-hop-selection-for-routing-in-Kuchhal-Dhurandher/7ae17daaec47efcd6b07a02c921e1ef16033e51b)*
9. [Energy Efficient Clustering Scheme (EECS) for Wireless Sensor Network with Mobile Sink](https://www.semanticscholar.org/paper/Energy-Efficient-Clustering-Scheme-(EECS)-for-with-Saranya-Shankar/39c9962f302b0dc6927bd877cf1c4e5487a5f2b1)
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**Already Shared**

1. Almost Reliable Multicast Protocol (Arm-P)
2. A Reliable Multicast Transport Protocol for Device Management in Space-ground Integrated Network (2018)

# Block Negative Acknowledgement protocol for reliable multicast in IEEE 802.11(2016)

# Tree-based reliable and energy-aware multicast routing protocol for mobile ad hoc networks(2018)

# Multi-constrained reliable multicast routing protocol for MANETs(2016)

# Design and Analysis of File-transfer Protocol Based on Reliable Multicast(2010)

# Congestion Control Strategy of Distance Education System Based on TCP Protocol(2019)

# Modified High Frequency Traffic Control Protocol for Congestion Control in TCP Flows(2019)

# Design of TCP Congestion Control in Data Center Networks Based on Stable Round Trip Time(2020)

# Shallow Window Reduction for Congestion Control Under TCP(2019)

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# The Behavior and Performance of TCP Congestion Control Algorithms Under Multi-path Routing(2019)

# Congestion Control Using Fuzzy based Adaptive TCP Window Adjustment(2019)

# Design and performance analysis of two-stage contention MAC protocol for full-duplex wireless networks(2018)

# ECM-MAC: An Efficient Collision Mitigation Strategy in Contention Based MAC Protocol(2021)

# Reduction of packet delay in a WLAN with multi-round contention based CSMA MAC protocol(2017)

# New Adaptive 802.11 MAC Protocol to Enhance Throughput and Fairness in Multihop Wireless Networks(2021)

# Enhance the Performance of EDCA Protocol by Adapting Contention Window(2017)

# Full Duplex Medium Access Control Protocol for Asymmetric Traffic(2016)

# SEMP: Self-Elimination MAC Protocol for IEEE 802.11 Wireless Networks(2017)

# Eliminating explicit contention from channel access in distributed wireless networks(2019)