

# OPTIMIZATION OF EIGRP DYNAMIC ROUTING PROTOCOL BASED ON ARTIFICIAL INTELLIGENCE ALGORITHM

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*Abstract - The objective of this work is to propose an algorithmic approach to deal with the problem of EIGRP routing in a communication network. This type of network is characterized by dynamic traffic conditions, which requires taking into account the QoS at the routing level. Therefore, any adaptive routing approach must be sufficiently responsive and robust to account for any changes in traffic conditions while minimizing end-to-end routing time. However, the effectiveness of this approach is highly dependent on load information. This information must be sufficient and relevant and at the same time reliably reflect the actual network load at the time of the routing decision*

**Keywords – EIGRP; Artificial Intelligence; Routing; Optimization; QoS.**



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