

Submission Summary

Conference Name

Second International Conference on Network, Multimedia and Information Technology (NMITCON-2024)

Track Name

NMITCON2024

Paper ID

994

Paper Title

AN INNOVATIVE ROAD AND TRAFFIC SAFETY MANAGEMENT SYSTEM USING IoT

Abstract

With urbanization accelerating and traffic congestion intensifying, traditional traffic management approaches are strained to their limits. Embracing the transformative potential of Internet of Things (IoT) technology, this research delves into the design, implementation, and evaluation of IoT-based traffic control systems. Through meticulous data acquisition, real-time monitoring, and adaptive decision-making, these systems promise to revolutionize urban mobility. Key findings highlight remarkable enhancements in traffic efficiency, congestion reduction, and overall urban mobility. Innovations in predictive analytics and adaptive control mechanisms stand out, offering cities newfound capabilities in tackling congestion hotspots and optimizing traffic flow dynamically. The convergence of IoT and traffic control not only fosters safer, more sustainable urban environments but also sets the stage for smarter cities of the future.

Created

5/2/2024, 10:35:42 AM

Last Modified

5/2/2024, 10:35:42 AM

Authors

Dr. Dileep Bolla (Nitte Meenakshi Institute of Technology) <dileep.bolla@gmail.com> ✓

Submission Files

FINAL SUBMISSION .pdf (665.6 Kb, 5/2/2024, 10:35:37 AM)