2nd-International Conference on Integration of Computational Intelligent System : Submission (570) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>   10 May 2025 at 15:29
To: arnav.sohani14@gmail.com

Hello,

The following submission has been created.

Track Name: Track 04-Artificial & Computational Intelligence

Paper ID: 570

Paper Title: Intelligent Traffic Signal Control System

Abstract:
Traffic jams are a major problem experienced in
urban regions causing lengthened travel time, fuel use and
environmental pollution. This project presents one of the first
adaptive Traffic Light Control Systems which implements the
dynamic prioritization of the traffic direction using the real-time
vehicle counts which are measured by the cameras. The system
achieves effective traffic flow by distributing the time length of
green light in the direct ratio to the number of vehicles in each
direction and equally distributing the fair minimum of 5 seconds
regardless of direction. The implementation incorporates a
clockwise rotation of the signal green thus, no direction is
endlessly held back. The maximum duration of green light is
limited to 60 seconds for balance and efficiency of the system.
The outcomes indicate better traffic clearance, shorter wait
times and radical optimization of signal application, making
this a sound solution for modern traffic control challenges.

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Secondary Subject Areas: Not Entered

Submission Files:
    Intelligent Traffic Signal Control System.pdf (779 Kb, Sat, 10 May 2025 09:58:33 GMT)

Submission Questions Response: Not Entered

Thanks,
CMT team.

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