PAPER STATUS

LIST OF PUBLICATIONS

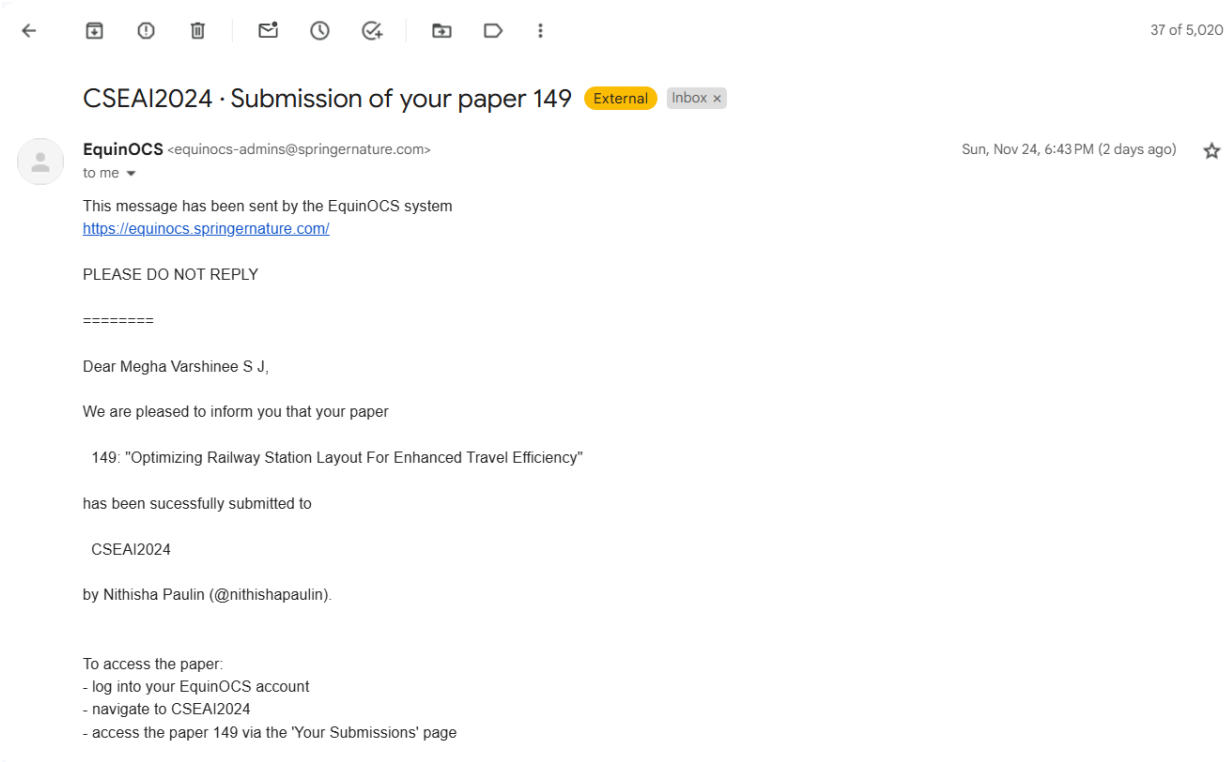
1.PUBLICATION STATUS: APPLIED

TITLE OF THE PAPER: Optimizing Railway Station Layout For Enhanced Travel Efficiency

AUTHORS: Dr. Vinodkumar S, Megha Varshinee S J, Nithisha Paulin S.

NAME OF THE CONFERENCE: SmartCom-2025 International Conference on Advancement in Computation & Computer Technologies

CONFERENCE DATE: 17 APRIL 2025



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Paper Title: Optimizing Railway Station Layout for Enhanced Travel Efficiency

Abstract:
In order to handle the challenges of navigating big train stations, this study presents a comprehensive indoor navigation system. This system helps customers find platforms, facilities, and services quickly by combining geospatial mapping with real-time point-of-interest (POI) advice. The system, which was created using a Flask-based backend, combines NetworkX for pathfinding and Folium for dynamic map rendering to provide accurate, real-time route generation inside the station context. Important spots in the train station, like ticket booths, platforms, and restaurants, are marked as points of interest (POIs), giving customers access to focused navigation to these places. The system's audio-based guidance and text-to-speech (TTS) capabilities using Pyttsx3 improve usability for all passengers, including those with accessibility needs. Additionally, user inquiries are interpreted using Natural Language Processing (NLP) enabling the system to comprehend and react to particular navigational requests (such as finding the closest platform or exit).

Created on: Sat, 23 Nov 2024 13:51:26 GMT

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Dear authors,

We received your submission to SMARTCOM 2025 (Smart Trends in Computing and Communications):

Authors : Dr. S. Vinod Kumar, Nithisha Paulin S and Megha Varshinee S J
Title : Optimizing Railway Station Layout for Enhanced Travel Efficiency
Number : 536

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Totally applied for 3 IEEE conference.
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