

Corrigendum

Corrigendum to “Assessment on the Current and Future Performance of Addis Ababa Light Rail Transit Service Using Mathematical Modeling”

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In the article titled “Assessment on the Current and Future Performance of Addis Ababa Light Rail Transit Service Using Mathematical Modeling” [1], overlap was identified with the following source [2]:

T. T. Worku, “Improving Addis Ababa Light Railway Transit Service Using Queue Theory and Monte-Carlo Simulation Models: Case of Torhailoch And Lideta Stations,” M.S. thesis, School of Civil and Environmental Engineering, Addis Ababa Institute of Technology, Addis Ababa University, Addis Ababa, Ethiopia, 2019.

The congestion problem in Addis Ababa Light Rail Transit (AALRT) was investigated in [2], and Queue Theory and Monte-Carlo Simulation models were applied to data from Torhailoch and Lideta stations as a case study. This article [1] expands on the research found in [2] in areas such as data collection sites (34 stations, out of which 4 stations were most congested), study period, corridors (N–S and E–W), and direction (N–S, S–N, W–E, and E–W) of the system by applying the same methodology as [2] to data collected by the authors for several stations in the AALRT. In addition, 6 years of data were used, starting from 2015 to 2021, by the article [1] for projecting the system’s performance to the year 2047 and from October 1 to December 30, 2021, for the current performance of the system during the study period. The overall recommendations for the AALRT service are consistent in both studies, but the predicted impact of the optimizations differs.

References

- [1] G. Debebe and B. Asteray, “Assessment on the Current and Future Performance of Addis Ababa Light Rail Transit Service Using Mathematical Modeling,” *Advances in Civil Engineering*, vol. 2022, Article ID 5097929, 12 pages, 2022.
- [2] T. T. Worku, “*Improving Addis Ababa Light Railway Transit Service Using Queue Theory and Monte-Carlo Simulation Models: Case of Torhailoch And Lideta Stations*,” M.S. thesis, School of Civil and Environmental Engineering, Addis Ababa Institute of Technology, Addis Ababa University, Addis Ababa, Ethiopia, 2019.