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Luxembourg SUMO Traffic (LuST) Scenario: 24 hours of mobility for vehicular networking research

Publisher: IEEE

Lara Codeca ; Raphael Frank ; Thomas Engel All Authors

Abstract:
Different research communities varying from telecommunication to traffic engineering are working on problems related to vehicular traffic congestion, intelligent transportation systems, and mobility patterns using information collected from a variety of sensors. To test the solutions, the first step is to use a vehicular traffic simulator with an appropriate scenario in order to reproduce realistic mobility patterns. Many mobility simulators are available, and the choice is usually done based on the size and type of simulation required, but a common problem is to find a realistic traffic scenario. In order to evaluate and compare new communication protocols for vehicular networks, it is necessary to use a wireless network simulator in combination with a vehicular traffic simulator. This additional step introduces further requirements for the scenario. The aim of this work is to

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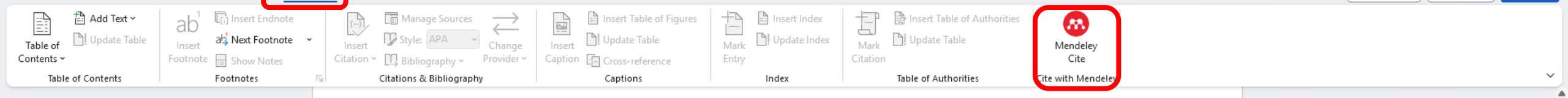

Reference

Malik, F., Khattak, H. A., & Ali Shah, M. (2019). Evaluation of the impact of traffic congestion based on SUMO. *ICAC 2019 - 2019 25th IEEE International Conference on Automation and Computing*. https://doi.org/10.23919/ICONAC.2019.8895120

Patel, V., Chaturvedi, M., & Srivastava, S. (2016). Comparison of SUMO and SiMTraM for Indian Traffic Scenario Representation. *Transportation Research Procedia*, *17*, 400–407. https://doi.org/10.1016/J.TRPRO.2016.11.081