

# Mounisai Siddartha Middela

## About

*Middela* is currently a research scholar in the transportation division, department of civil engineering, Indian Institute of Technology Madras. His research focuses on the estimation of the total freight trips and commodity in tonnage generated by different establishments in the city. He also works on application of spatial statistics and spatial econometric models to the estimation of freight trip generation. Other than the estimation of freight demand, he also works on the estimation of emissions from freight trips in the city, parking demand in the city, and so on.

## Education

**(PhD)** (2016-present)

*Supervisor: Dr. Gitakrishnan Ramadurai*

Currently, a research scholar at IIT Madras working on “Modelling Urban Freight Trip and Freight Generation”. The research focuses on building freight trip generation and freight generation models for Chennai city considering spatial dependence in the models.

**M.Tech.** (Transportation Engineering), NIT Warangal, 2016.

**B.Tech.** (Civil Engineering), JNT University, Anantapur, 2014.

## Publications and conferences

Middela, M.S., Ramadurai, G. Freight trip generation models by vehicle type: A spatial seemingly unrelated regression approach. Transportation Research Record: Journal of the transportation research board (In review).

Middela, M. S. & Ramadurai, G. Freight trip generation models for an industrial estate: Lessons and opportunities for city logistics practices. 4th VREF Conference on Urban Freight. Gothenburg, Sweden (In review).

Middela, M.S. & Ramadurai, G. (2021). Freight trip generation models by vehicle type: A spatial seemingly unrelated regression approach. In TRB 100th annual meeting compendium of papers, Washington, USA.

Middela, M.S. & Ramadurai, G. (2020). Incorporating spatial interactions in zero-inflated negative binomial models for freight trip generation. Transportation. <https://doi.org/10.1007/s11116-020-10132-w>

Middela, M. S., & Ramadurai, G. (2019). Automatic Identification of Freight Trip Destinations from Passive GPS Trajectories. In 5th CTRG. Bhopal, India.

Middela, M. S., Mahesh, S., Sripada, S. K., Kancharla, S. R., Devi, G., & Ramadurai, G. (2019). Estimating Emissions from Urban Freight Trips. In 15th World Conference on Transport Research. Mumbai, India.

Middela, M. S. & Ramadurai, G. (2018). An assessment of multiple freight trip generation modelling approaches. In 3rd VREF Conference on Urban Freight. Gothenburg, Sweden.

## **Personal Information**

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