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Employment History

2021 - · · · ·

Postdoctoral Research Assistant Lyles School of Civil Engineering, Purdue University.

2019 – 2020

Senior Project Officer Center for Industrial Consultancy and Sponsored Research, Indian Institute of Technology Madras.

2014 - 2019

Teaching and Research Assistant Department of Civil Engineering, Indian Institute of Technology Madras.

Education

2013 - 2020

M.Tech. & Ph.D. in Civil Engineering Indian Institute of Technology Madras
Thesis title: Vehicle Routing Problems in Sustainable Urban Freight Transport: Model Formulations and Solution Algorithms

2009 - 2013

B.Tech. in Civil Engineering **Sri Venkateswara University** Thesis title: *Web Based Civil Engineering Calculator*.

Research Publications

Journal Articles

- Kancharla, S. R., & Ramadurai, G. (2020a). Electric vehicle routing problem with non-linear charging and load-dependent discharging. *Expert Systems With Applications*, 160, 113714.

 Odoi:10.1016/j.eswa.2020.113714
- Kancharla, S. R., & Ramadurai, G. (2020b). Simulated Annealing Algorithm for Multi Depot Two-Echelon Capacitated Vehicle Routing Problem. *European Transport*, (78).
- Kancharla, S. R., & Ramadurai, G. (2019a). Multi-depot Two-Echelon Fuel Minimizing Routing Problem with Heterogeneous Fleets: Model and Heuristic. *Networks and Spatial Economics*, 19(3), 969–1005.

 Odi:10.1007/s11067-018-9437-7
- Kancharla, S. R., & Ramadurai, G. (2018b). Incorporating driving cycle based fuel consumption estimation in green vehicle routing problems. *Sustainable Cities and Society*, 40, 214–221.

 Odoi:10.1016/j.scs.2018.04.016

Conferences

- 1 Kancharla, S. R., & Ramadurai, G. (2019b). Simulated Annealing Algorithm For Multi Depot Two-Echelon Capacitated Vehicle Routing Problem. In 98th annual meeting of the transportation research board, Washington D.C., USA.
- 2 Siddartha, M. M., 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 wctr 2019, Mumbai, India.

- 3 Kancharla, S. R., & Ramadurai, G. (2018c). Load Dependent Electric Vehicle Routing Problem With Time Windows Considering Nonlinear Charging Function. In 6th informs transportation science and logistics (tsl) society workshop, Hong Kong.
- Kancharla, S. R., & Ramadurai, G. (2018d). Multi-depot Electric Vehicle Routing Problem with Time Windows considering Non-linear Charging and Discharging. In 2018 annual meeting of the institute for operations research and the management sciences (informs), Phoenix, USA.
- Ramadurai, G., Kancharla, S. R., & Manohar, M. (2018). Electric Future for Buses? Influence of Size, Battery Capacity, and Route Length. In 2018 informs international conference, Taipei, Taiwan.
- Kancharla, S. R., & Ramadurai, G. (2017a). An Adaptive Large Neighbourhood Search Approach for Electric Vehicle Routing with Load-dependent Energy Consumption. In 4th conference of the transportation research group of india, Mumbai, India.
- 7 Kancharla, S. R., & Ramadurai, G. (2017b). Incorporating Driving Cycle Based Fuel Estimation For Green Vehicle Routing Problem. In *96thannual meeting of the transportation research board*, Washington D.C., USA.
- 8 Kancharla, S. R., & Ramadurai, G. (2016). Multi-depot Two Echelon Pollution Minimizing Routing Problem with Heterogeneous Vehicles. In 2016 annual meeting of the institute for operations research and the management sciences (informs), Nashville, USA.

Skills

Coding Python, R, GAMS, Lava.

Transpo PTV VISSIM, AIMSUN.

Web Dev HTML, css, JavaScript.

Miscellaneous Experience

Awards and Achievements

- **K. Ganesh and Meena Ganesh Scholarship for Entrepreneurship Development**, Indian Institute of Technology Madras.
- 2019 Institute Research Award, Indian Institute of Technology Madras.
- Study visit grant to visit The University of Melbourne, Australia, Volvo Research & Educational Foundations (VREF), Sweden.
- 2014 2019 Merit-based monthly scholarship, Ministry of Human Resource Development, Govt. of India.
 - 2012 2nd prize in paper presentation event as part of TRACE 2k12 (XIII National Level Student Technical Symposium), RGMCET, Nandyala.
 - 3rd prize in paper presentation event as part of Tathva '11 (Techno Management Fest), NIT Calicut.
- 2014 2015 Post Graduate department coordinator for Mentoring for individual TRansformation (MiTR), Indian Institute of Technology Madras.
- **Civil Engineering Association Student Secretary**, Department of Civil Engineering, K.S.R.M. College of Engineering.