

# Masters Coursework Thesis

List of students undertaking Masters Coursework Thesis

Year	Title	Author	Supervisor	Co-supervisor
2023	The application of Hyperledger Fabric blockchain in international maritime logistics	Ni, Lifeng	Irannezhad, Elnaz	
2022	Mapping Sydney's Footpath Network with Street-level 360 Degree Imagery Data	Zhou, Zhuoyang	Saberi Kalae, Meead	
2022	Computer Vision-Based Collision Avoidance for Driverless Cars	Yan, Shuo	Lim, Samsung	
2022	High-Definition Mapping For Automatic Driving: Point Cloud Fitting	Wu, Haotian	Wang,J, Jinling	
2022	Analysis of footpath network using image semantic segmentation method	Yang, Yi	Saberi Kalae, Meead	
2022	Visual Sensing and Deep Learning for Autonomous Driving	Liu, Ming	Wang,J, Jinling	

2022	Computer Vision-Based Vehicle Recognition Technology	Yang, Shuyu	Lim, Samsung	
2022	Modelling and Managing Traffic Externalities in a Large-scale Network	Zhou, Xinyi	Liu, Wei	
2021	Understanding the route choice behaviour of pedestrians	Zhou, Zinan	Saberi Kalae, Meead	
2021	Quantifying the impacts of railway/transit services with a data-driven approach	Xie, Fangzheng	Liu, Wei	
2021	Heuristics for Dynamic Packing and Routing Problem	Tobing, Irvin Nathaniel	Rey, David	Nair, Divya
2021	Understanding the route choice behaviour of pedestrians	Jakhar, Tejender	Saberi Kalae, Meead	
2021	Understanding the route choice of pedestrians	Hou, Runtong	Saberi Kalae, Meead	
2021	Computer Vision-Based Traffic Flow Monitoring	Sui, Yudian	Lim, Samsung	
2021	Multi-agent Reinforcement Learning-based Impact of Automated Vehicles on Traffic	Zhang, Chengwei	Saberi Kalae, Meead	



	Flow Characteristics		
2021	Computer Vision-Based Traffic Flow Monitoring	Wang, Yufan	Lim, Samsung
2021	Transport modelling: analysis on bike-sharing service	Wang, Guoliang	Zhang, Xiang
2020	Quantifying Network Structure using Fractal Dimension	Njoteah, Christopher Nnanke	Chakka, Mohana Naga Sai
2020	Factors influencing travel preferences of people under the influence of the COVID-19	Cai, Yue	Ardeshiri, Ali
2020	Factors that influence facility location of UAV infrastructure	Pratthigadapa, Prasanth	Rey, David
2020	The Impacts of Ridesharing: A Case Study of Sydney's M4 Motorway	Song, Changle	Rey, David
2020	Understanding the destination choice of pedestrians	Lian, Pengyu	Saberi Kalae, Meead
2020	Quantifying the economic impacts of railway/transit services with a data-driven approach	Wang, Jie	Liu, Wei
2020	Impact of Autonomous	Mannan, Areena	Saberi Kalae, Meead



## Vehicles on Urban Traffic

2020	Modeling and Simulating a Mixed Network with Autonomous Vehicles and Conventional Vehicles	Sun, Luchen	Liu, Wei	
2020	A stated Preference Study on Investigating Mode Choice for Sydney CBD Commuters Using Biogeme	Chen, Xiaofeng	Najmi, Ali	
2020	Transport in remote Australia - analysis and prospects	Rottemberg, Maria Julieta	Grzybowska, Hanna	Waller, Travis
2020	Intelligence From Smart Streetlights	Wang, Yang	Ge, Linlin	
2020	The Changes in Traffic Flow Characteristics in Highway Merging due to the advent of Reinforcement Learned Autonomous Vehicles	Tang, Ming	Saberi Kalae, Meead	
2020	Modelling network traffic with Autonomous Vehicles	Gopalakrishnan, Radhika	Liu, Wei	
2020	Quantifying the Complexity and Connectivity of China High-speed Rail Development and Its Implication	Nanlohy, Vinensia Meisclin	Liu, Wei	



	on The Economic Growth			
2020	Modelling and Evaluating Traffic Signal Priority for Light Rail	Zheng, Xuhan	Gu, Ziyuan Frank	
2020	Route Choice Behaviour: a comparison between university and online sample	Wan, Lei	Ardeshiri, Ali	
2020	Modeling and Managing Traffic Externalities in a Large-scale Network	Chen, Xiaoxiao	Liu, Wei	
2020	Assessment of Short-Term and Long-Term Impacts of Disruptive Transportation Technologies on Large-Scale Networks	Anderson Saldana, Kevin Michael	Waller, Travis	Grzybowska, Hanna
2020	Modelling relationships between traffic flow fluctuations and crashes	Li, Pengfei	Chakka, Mohana Naga Sai	
2020	Designing Traffic Signals to Accommodate Sydney Light Rail	Liu, Yifan	Gu, Ziyuan Frank	
2020	Understanding the route choice behavior of pedestrians	Xiao, Tianpei	Saberi Kalae, Meead	



2020	Traffic flow characteristics of automated vehicles	Yu, Gongda	Saberi Kalae, Meead	
2020	Housing acquisition and investment study: residents attitudes, behaviours and preferences	Gao, Kai	Ardeshiri, Ali	
2019	Quantifying the relationships between air quality and transport and urban development	Zhang, Xu	Liu, Wei	
2019	Modelling and simulation of the stochastic aircraft boarding process	Huang, Rong	Liu, Wei	Zhang, Fangni (External)
2019	Analysing the impact of autonomous vehicles on the network traffic flow	Zhang, Weihao	Gu, Ziyuan	
2019	Mapping Urban Noise in Sydney	Zheng, Xiaofeng	Saberi Kalae, Meead	
2019	Traffic flow theory and characteristics of automated vehicles	Li, Mupeng	Saberi Kalae, Meead	Gu, Ziyuan
2019	Mapping Urban Noise in Sydney	Feng, Li	Saberi Kalae, Meead	
2019	Mapping Urban Noise Data in Sydney	Chen, Tianzhou	Saberi Kalae, Meead	



2019	Studying passengers reaction to train disruptions due to trackwork maintenance in Sydney	Cui, Yanhao	Saxena, Neeraj	
2019	Mapping urban noise in Sydney	Wang, Yanjing	Saberi Kalae, Meead	
2019	Traffic flow characteristics of automated vehicles	Li, Xin	Saberi Kalae, Meead	
2019	Understanding the destination choice behaviour of pedestrians	Zhao, Yiyun	Saberi Kalae, Meead	
2019	Computer Vision-based Collision Avoidance for Driverless Car	Luan, Mingye	Lim, Samsung	
2019	Traffic flow theory and characteristics of automated vehicles	Chang, Xiaoli	Saberi Kalae, Meead	Gu, Ziyuan
2019	Traffic flow theory and characteristics of automated vehicles	Dai, Qingwen	Saberi Kalae, Meead	Gu, Ziyuan
2019	Traffic flow characteristics of automated vehicles	Ligawan, Kane	Saberi Kalae, Meead	
2019	Urban Transport Expenditures & Life Satisfaction	Qing, Taiyu	Ghasrikhouzani, Milad	
2019	Mapping urban noise in Sydney	Xi, Kangyu	Saberi Kalae, Meead	



2019	Mapping urban noise in Sydney	Chen, Chuan	Saberi Kalae, Meead	
2019	Optimising human performance of the Dynamic Driving Task fallback through the use of auditory and visual alert tones	Zhao, Yiming	Prabhakaran, Prasannah	Dixit, Vinayak
2019	Autonomous vehicles: Disengagements and accidents	Chen, Huang	Chakka, Mohana Naga Sai	
2019	transport resilience to natural disaster- Tropical Cyclone Debbie	Du, Qiang	Dixit, Vinayak	
2019	Using crowdsourced traffic data for predicting crashes	Liu, Tianyu	Chakka, Mohana Naga Sai	
2019	Understanding the route choice behaviour of pedestrians	Zhi, Feng	Saberi Kalae, Meead	
2019	Have people started walking more in Sydney? Role of Fitness tracker in encouraging walk behavior	Mi, Jiarui	Saxena, Neeraj	
2019	Analysis of Air Travel In Australia from 2004 to 2018	Li, Qiang	Chakka, Mohana Naga Sai	
2019	The effect of different factors on traffic incidents duration	Zhang, Xinan	Chakka, Mohana Naga Sai	





2019	Quantifying the economic impacts of High-speed Railway Development	Yang, Zhiwei	Liu,Wei	
2019	Transportation Network Resilience on 2016 Waroona Fire	Yin, Yongjian	Dixit,Vinayak	
2018	Optimal traffic intersection control for autonomous vehicles and pedestrians	Castro Zaldua, Andres Leonardo	Rey, David	
2018	A Customer Satisfaction Survey of On-demand transport Services: Case Study of Northern Beaches and Macquarie Park in Sydney	Sun, Teng	Saxena, Neeraj	
2018	Microsimulation-based Study on Interaction Between Pedestrians and Connected and Autonomous Vehicles	Dizon, Mario Jr.	Grzybowska, Hanna	
2018	The application of entropy in travel speed data analysis on motorway	Zhao, Tianyi	Dixit, Vinayak	Chakka, Mohana Naga Sai
2018	Preferences for ride-pooling in ridesharing systems	Lyu ,Bocan	Jian, Sisi	Saxena, Neeraj



2018	Exploring the Possibility of Predicting the Ridership Based on Crowdsourced Cycling Data	Quan, Yingzhou	Roberts, Craig
2018	Crowd Sourced Data For Traffic Incident Analysis:Multilinear Prediction Model for Recovery Time	Joseph, Remil	Divya, Jayakumar Nair
2018	Navigation and control system for autonomous vehicle platooning	Xu, Yibai	Wang,J, Jinling
2018	Pedestrian-vehicle collision avoidance for autonomous cars in future intelligent transport systems	Ma, Kexu	Wang,J, Jinling
2018	Genetic Algorithm for Route Planning in Automatic Driving	Suo, Linyuan	Wang,J, Jinling
2018	Evaluation of the impact of accessibility on travelers' mode choice for public transit	Zheng, Yifei	Jian, Sisi
2017	Market Uptake of a New Mobility Option in Sydney Metropolitan Area: A Stated Choice Study on Motorcycle Taxis	Peng, Bozhezi	Hossein Rashidi, Taha
2016	The Impact of Automotive Night	Hu, Shihui	Rizos, Chris



	Vision Systems on Driver Behaviour and Driving Performance		
2015	High Performance Positioning Framework for C-ITS	Zuo, Chen	Rizos, Chris
2015	Establishing a destination choice model of the Melbourne city	Wan, Pinzhang	Hossein Rashidi, Taha
2015	Transportation-land use connection in Sydney census data	Zheng, Yi	Moylan, Emily
2015	Predicting Casualty-Accident Count by Highway Design Standards Compliance, Study Case: East Java North Corridor Network - Indonesia	Rizaldi, Arief	Dixit, Vinayak
2015	Zero-inflated Negative Binomial Regression Model: Accident Frequency Estimation at North Coast Corridor Road (Central-Java Indonesia)	Junirman, Rizky Adelwin	Dixit, Vinayak

