

1. Name and Surname: Mohammad Ali Sahraei

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2. Date of Birth: 1983

3. Title: Dr.

4. Education

History

Derece	Subject	University	Year
Bachelors	Civil Engineering	Azad University	2006
Masters	Civil-Transportation and Highway	Universiti Teknologi Malaysia (UTM)	2012
PhD	Civil Engineering	Universiti Teknologi Malaysia (UTM)	2018

5. Masters and PhD Dissertations (Theses).

5.1 Master Theses.

Delay at priority junctions on low speed roads during twilight time

Supervisor: Prof. Othman Che Puan

5.2 PhD Theses

Modeling of traffic delays at priority junctions using Artificial Neural Network (ANN)

Supervisor: Prof. Othman Che Puan

6. Research:

Subject	University	Year
Postdoctoral researcher	Erzurum Technical University	2019-2020

7. Publications.

7.1 Articles published in journals.

1. Mohammad Ali Sahraei, Merve Kayaci Çodur "Prediction of transportation energy demand by novel hybrid meta-heuristic ANN", Journal of Energy, 2022, <https://doi.org/10.1016/j.energy.2022.123735>
2. Emre Kuşkan, Mohammad Ali Sahraei, Muhammed Yasin Çodur, "Pedestrian safety at signalized intersections: spatial and machine learning approaches", Journal of Transport & Health, 2022, <https://doi.org/10.1016/j.jth.2021.101322>
3. Mohammad Ali Sahraei, Merve Kayaci Çodur, Muhammed Yasin Çodur, Ahmet Tortum "forecasting the Accident Frequency and Risk Factors: A Case Study of Erzurum, Turkey", Tehnički vjesnik, 2022, <https://doi.org/10.17559/TV-20200620164552>
4. Mohammad Ali Sahraei, Emre Kuşkan, Muhammed Yasin Çodur, "public transit usage and air quality index during the covid-19 lockdown", Journal of Environmental Management, 2021
5. Mohammad Ali Sahraei, Hakan Duman, Muhammed Yasin Çodur, Ecevit Eydurhan "prediction of transportation energy demand: multivariate adaptive regression splines", Journal of Energy, 2021
6. Mohammad Ali Sahraei, Elnaz Akbari "review and evaluation of methods for estimating delay at priority junctions", Australian Journal of Civil Engineering, 2020
7. Mohammad Ali Sahraei, Elnaz Akbari "effect of motorcycle on critical gap at priority intersections", Australian Journal of Civil Engineering, 2020
8. Mohammad Ali Sahraei, Elnaz Akbari, "implementing the equilibrium of probabilities to measure critical gap at priority junctions", Journal of Testing and Evaluation (JTE), 47(2), 2019
9. Mohammad Ali Sahraei, Othman Bin Che Puan, "establishing a new model for estimation of the delay at priority junctions in malaysia", Cogent Engineering, 5(1), 2018
10. Mohammad Ali Sahraei, Othman Bin Che Puan, M. Al-Muz-zammil Yasin, "minor road traffic delays at priority junctions on low speed roads in suburban areas", Jurnal Teknologi, 70(4), 97-102, 2014
11. Mohammad Ali Sahraei, Othman Che Puan, and Nima Jahandar, "comparison of delays between twilight time and day time", Journal of Basic and Applied Scientific Research, 2(9)9649-9657, 2012
12. Mohammad Ali Sahraei, and Nima Jahandar, "evaluation the best distance between noise generation and receptor for a noise barrier construction around an expressway in malaysia", Journal of Basic and Applied Scientific Research, 2(12)12445-12449, 2012
13. Nima Jahandar, Amin Hosseinpour, and Mohammad Ali Sahraei, "traffic noise under stop and go conditions in intersections: a case study", International Journal of Humanities and Social Sciences, 6(2) 250-253, 2012

7.2 Conference Presentations at International Scientific meeting.

1. Emre Kuşkan, Mohammad Ali Sahraei, Muhammed Yasin Çodur, "examination of the advantages of the carsharing system in terms of urban transport: the case of erzurum", International Engineering and Natural Sciences Conference (IENSC 2020), Turkey, 2020
2. Emre Kuşkan, Mohammad Ali Sahraei, Muhammed Yasin Çodur, "performance analysis of multilayer perceptron and nearest neighbour algorithms", International Engineering and Natural Sciences Conference (IENSC 2020), Turkey, 2020
3. Mohammad Ali Sahraei, Emre Kuşkan, Muhammed Yasin Çodur, "impact of COVID-19 on the public transit usage and ambient air quality in Turkey", International conference-the science and development of transport, Croatia, 2020
4. Mohammad Ali Sahraei, and Othman Che Puan, "traffic delay estimation using Artificial Neural Network (ANN) at priority junctions", 3rd International Conference on Civil, Structural and Transportation Engineering (ICCSTE'18), Canada 2018
5. Mohammad Ali Sahraei, and Othman Che Puan, "determination of gap acceptance at priority intersections", The 8th Seatuc Meeting & Symposium, Malaysia, 2014
6. Seyed Mehrdad Ghaemi, and Mohammad Ali Sahraei, "determining the impact of road humps on road capacity", The 4th International Graduate Conference on Engineering Science & Humanity (IGCESH2013), Malaysia, 2013
7. Mohammad Ali Sahraei, and Seyed Mehrdad Ghaemi, "influence of height and distance of traffic noise barriers for noise mitigation", The 4th International Graduate Conference on Engineering Science & Humanity, (IGCESH2013), Malaysia, 2013

7.3 International book publications or participation in book chapters.

1. Mohammad Ali Sahraei, Emre Kuşkan, Muhammed Yasin Çodur, "an overview of traffic accident prediction models", Nobel Bilimsel Eserler, 2021
2. Mohammad Ali Sahraei, Emre Kuşkan, Muhammed Yasin Çodur, "application of dimensionless method to estimate traffic delays at stop-controlled T-intersections", EcoProduction Book Series, 2021

8. Undergraduate and graduate level courses taught in the last two years.

Academic Year	Semester	Course title	Weekly Hours		Number of students
			Theoretical	Practical	
2021-2022	Spring	Traffic engineering	3	0	28
		Principles of Logistics and Transportation	3	0	12
		Energy Management	3	0	19
		Dynamics	3	0	18
		General Chemistry	3	0	78
		General Physics I	3	0	75
	Winter	Dynamics	3	0	26
		Structural Analysis I	3	0	26
		General Physics I	3	0	72
		Engineering Ethic	3	0	56
2020-2021	Winter	Reinforced Concrete Structures I	3	0	28
		Reinforced Concrete Structures II	3	0	17
		General Chemistry	3	0	95
		General Physics I	3	0	95
		Engineering Ethic	3	0	18
		Special Project	4	0	4
	Spring	Reinforced Concrete Structures I	3	0	32
		Reinforced Concrete Structures II	3	0	18
		General Chemistry	3	0	55
		General Physics I	3	0	51
		Traffic Engineering	3	0	15
		Construction Materials	3	0	1
		Energy Management	3	0	16