

I. PERSONAL INFORMATION:

Name: Mahmoud Saffarzadeh

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E-mail	, saffarzadeh.ma@gmail.comSaffar_m@modares.ac.ir
Academic Page	https://www.modares.ac.ir/pro/academic_staff/saffar_m
LinkedIn	https://www.linkedin.com/in/mahmoud-saffarzadeh-a679ba270/
Google Scholar	https://scholar.google.com/citations?hl=en&user=VCoRXOoAAAAJ
Research Gate	https://www.researchgate.net/profile/M-Saffarzadeh
Scopus	https://www.scopus.com/authid/detail.uri?authorId=55918435200
Research ID	AAE-7309-2022

II. EDUCATIONAL RECORDS:

B.Sc Civil Engineering, Bahonar University, Kerman, 1987

M.Sc Transportation and Planning Engineering, Carleton University, Ottawa, 1991

Ph.D. Transportation and Planning Engineering, Carleton University, Ottawa, 1995

III. ACADEMIC EXPERIENCES:

- Professor, Tarbiat Modarres University, Tehran, Iran, (2008)
- Associate Professor, Tarbiat Modarres University, Tehran, Iran, (2001-2008)
- Assistant Professor, Tarbiat Modarres University, Tehran. Iran. (1995-2001)
- Teaching Assistant, Carleton University, Ottawa, Canada, (1989-1995)
- Teaching Assistant, Bahonar University, Kerman, Iran, (1985-1987)

V. RESEARCH INTERESTS:

- 1) Planning & Design of Airports
- 2) Transportation Terminals

- 3) Traffic Engineering
- 4) Transportation Safety
- 5) Advanced Highway Design
- 6) Intelligent Transportation System

IV. BOOKS:

1. Mahmoud Saffarzadeh, Soroush Memar Montazerin, "Resilient Cities: Overcoming Dependence on Fossil Fuels", Tarrahan Parseh Transportation Research Institute Publications, First Edition, 2019.
2. Mahmoud Saffarzadeh, Babak Mirbahaa, Ali Abdi Kordani, Behzad Bamdad Mehrbani, "Road Capacity Guide (Uninterrupted Flow)", Tarrahan Parseh Transportation Research Institute Publications, First Edition, 2018.
3. Mahmoud Saffarzadeh, Babak Mirbaha, "Guide for the Development of Bicycle Facilities", Tarrahan Parseh Transportation Research Institute Publication and Seri Orman Publication, Iran, 2017.
4. Mahmoud Saffarzadeh, Mohammad Shakeri, "Highway and Street Geometric Design", Tarrahan Parseh Transportation Research Institute Publication and Seri Orman Publication, Iran, Spring 2017.
5. Airport Planning and Design (Volume I: Planning, Volume II: Design), Mahmoud Saffarzadeh, Gholamreza Maasoumi, Navid Nadimi, Winter 2015
6. Mahmoud Saffarzadeh., "Traffic and Transportation Engineering", Volumes I & II, Third Edition, Tarbiat Modares University Press, 2015.
7. Mahoud Saffarzadeh, Ramtin Bagheri, "How to make two lane roads Safer, Law Enforcement publication, winter 2012.
8. Mahmoud Saffarzadeh, 'Geometric Design of Highways and Streets', Vol. 1, Transportation Research Institute, Iran, June 2009.
9. Mahmoud Saffarzadeh, 'Geometric Design of Highways and Streets', Volume 2 and 3, Transportation Research Institute, Iran, August 2009.
10. Mahmoud Saffarzadeh, "Marine Transportation", Ports & Shipping Agency, 2006.
11. Mahmoud Saffarzadeh, Farzad Rahimi, "Noise Pollutions of Transportation System", Environment Protection Agency Nov., 2003.
12. Mahmoud Saffarzadeh, "Airport Master Planning Manual", Research and Education Center, Ministry of Road and Transportation, Tehran, Iran 1997.

V. RESEARCH PROJECTS:

1. Comprehensive Transportation and Traffic Studies of Semnan City, Project Executor, 2023.
2. Comprehensive Transportation and Traffic Studies of Tabriz City, Project Executor, 2023.
3. Comprehensive Transportation and Traffic Studies of Kerman City, Project Executor, 2022.
4. Codification of technical specifications for the construction and installation of mast structures (gabarit, cross and cantilever), 2022.

5. Codification of the price list of mast structures (gabarit, cruciform and cantilever) direction signs, 2022.
6. Codification of technical specifications for the installation and maintenance of direction signs, 2022.
7. Codification of traffic calming guidelines for urban roads, 2022.
8. Codification of rules for maintenance contracts for signs (vertical and horizontal) and traffic equipment, 2022.
9. Codification of the price list of maintenance contracts for signs (vertical and horizontal) and traffic equipment, 2022.
10. Updating the technical specifications of construction, installation and maintenance of traffic signs and equipment (document number 6-8-310), 2021.
11. Instructions for preparation, installation and maintenance of traffic lights in Tehran, 2021.
12. Instructions for safety, traffic control and services, cleaning and washing, maintenance and repair of urban tunnels equipment and facilities, 2021.
13. Instructions for preparation, installation and commissioning, operation and maintenance of video surveillance systems and violation registration systems, traffic counters and RFID equipment, 2021.
14. Guidelines for preparation, installation, maintenance and repair of fiber optic network infrastructure and wireless systems in Tehran, 2021.
15. Instructions for the preparation, installation, maintenance and repair of Variable message signs (VMS) and city screens in Tehran, 2021.
16. Instructions for construction operations of smart transportation systems in Tehran, 2021.
17. Providing and development of a set of dangerous material transportation safety sheet, Ministry of Road and Transportation Research Institute, 2013.
18. The comprehensive studies on transportation and providing the strategic management of Tehran highways, The Total Road and Urban Development Company, 2012.
19. Research conducted on probability of application of smart cards in Tehran, Traffic Control Company, 2012.
20. Providing the requirement and alternatives related to navigation implementation based Iran performance criteria, Transportation research Institute, 2011.
21. Tehran Multi-airport network studies, Imam Khomeini International Airport, 2011.

22. The revision of Airport Airside Design Manual, No. 233, Planning and Management Organization, 2010.
23. Evaluation of probability intelligence system application in disaster management cycle, Transportation Research Institute, 2010.
24. Development of a Model to Forecast the Fleet Size and its Category for the 20 Year Horizon, Civil Aviation Organization, Tehran, Iran, 2009.
25. Providing the location, design and implementation of highway light systems, Transportation Research Institute, 2009.
26. Mashhad Transportation and Traffic Comprehensive Plan, Mashhad Municipality, 2009.
27. Providing the traffic calming standard, Tehran Municipality, 2009.
28. Providing the urban hierarchy performance standard, Tehran Municipality, 2009.
29. Airport Landside Design Manual, No. 197, Planning and Management Organization, 2000.
30. Effective Parameters of Developing Air Transport Market in Iran, Transportation Research Institute, Iran, 2008.
31. An Optimum Budget Allocation Model for Repair and Maintenance of Roads, Ministry of Roads and Transportation, Iran, 2008.
32. An Optimum Site Selection Model for Road Lighting, Transportation Research Institute, 2008.
33. Determination of New Technology for Repair and Maintenance of Roads, Ministry of Roads and Transportation, Iran, 2008.
34. Providing the rehabilitation and maintenance budget allocation model on highway preservation activities, Study and Research Office of Ministry of Road and Transportation, 2008.
35. Road Safety Manual, Seven Volume, Publication No. 231, Planning and Management Organization, 2006.
36. Design Manual of Ports and Offshore Structures, Eleven Volumes, No. 240, Planning and Management Organization, 2005.
37. Providing the transportation safety strategy of Iran, 2005.
38. Design Manual of Asphalt Concrete Pavement, No. 234, Planning and Management Organization, 2002.
39. Airport Airside Design Manual, No. 233, Planning and Management Organization, 2001.
40. Abstract Proceeding of 8th International Conference of Transportation, Belgium, Research and Education Road and Urban Development Publication Center.
41. Consideration of problems and deficiencies in freight transportation, Road and Transportation Research and Training Center.

VI. Memberships and Affiliations:

1. Member of Supreme Council Committee of Transportation and Civil, Ministry of Science and research and technology.
2. Member of International Conference of Science, Engineering and Environmental Technologies (CESET).
3. Member of the Iranian Association of Transportation and Traffic Engineering, 1995.
4. Member of the Railroad Research Council, 1999.

5. Member of the Scientific Committee of the Regional Conference on Transportation and Traffic Engineering, 2004.
6. Member of the National Geographic Information Working Group of the High Council of Information Dissemination, 2004.
7. Member of the Board of Technical Committee for Interurban Roads of Permanent International Association of Road Congress 2002.
8. Member of the Housing and Urban Development Committee of the Industrial Commission of National Scientific Research Council, 1997.
9. Member of the High Council on Aviation Studies, 1998.
10. Member of The Board of Directors Specialized Traffic Group, Professional Engineering Organization, 1997.
11. Member of the Railroad Development Consulting Company (Metra), 2002.
12. Member of International Road Federation (IRF), 2004.
13. Member of the Editorial Board of The Roads Journal (Jaddeh), 1999.
14. Member of the Board of Directors, Transportation and Traffic Organization, 2005.
15. Member of the Technical High Council of Transportation Infrastructures, 2006.
16. Member and Board of Directors, Iranian Society of Railroad Engineering, 2006.
17. Member and Board of Directors, Iranian Society of Transportation Engineering, 2006.
18. Member of the Board of Directors of the Middle East Marine Engineering Services (Tidewater), 1998.
19. Member of the International Society on Energy Economics (IAEE), 2003.
20. Member of the World Conference Transportation Research Society (WCTRS), 2004.
21. Member of the Aviation Transportation Research Society (ATRS), 2005.
22. Member of the Society of Value Engineering (SAVE), 1999.
23. Member of the Iranian Society of Civil Engineering, 1996.
24. Member of Reviewers Committee of International Civil Engineering Congress,

VII. Work Experiences:

1. Secretary of the Specialized Commission for Transportation, Civil Engineering, and Urban Development of the Supreme Council of Science, Research, and Technology.
2. Secretary of the Supreme Council for Education, Research, and Technology, Ministry of Roads and Urban Development.
3. The manager of Traffic and Transportation Organization of Tehran Municipality.
4. Deputy of Research and Technology of Road, Housing and Urban Development Research Center.
5. Vice President and Secretary-General of the Union of Non-Governmental Research Institutes in Science.
6. Dean of Faculty of Civil and Environmental Engineering, Tarbiat Modares University.
7. Editor-in Chief, International Journal of Transportation Engineering (IJTE).
8. Research Deputy of Faculty of Engineering, Tarbiat Modares University.
9. Director of Road and Transportation Department, Tarbiat Modares University.
10. Editor In Chief, RAHVAR, Journal.
11. Editor In Chief, Journal of Traffic Management Studies.

12. Member of the Editorial Board of the Civil Engineering Journal, Tarbiat Modares University.
13. Head of development and supplementation of Transportation Infrastructures Expert Group , International Transit Festival
14. Editor In Chief, Journal of Transportation Engineering (JTE).
15. Head of Traffic and Transportation Committee for the International Logistic and Supply Chain Conference.
16. Member of Traffic research council for the Municipality of Tehran.
17. Vice President of Iranian Traffic Expert Society.
18. Head of Scientific Committee, the transportation and Traffic Conferences.
19. Head of the Roads and Transportation Research and Education Center.
20. Secretary, High Technical Council on Transportation Infrastructures.
21. Research Deputy of Transportation Research Institute.
22. The member of Aviation High Committee
23. Iran Aviation Organization consultant.
24. Secretary of the National Council for Reviewing, Evaluating and Approval of Comprehensive Transportation Studies.
25. Member of the Board of Directors, Meteorological Research Institute.
26. Secretary, Council on Transportation Policies.
27. President, Headquarters on Transportation Comprehensive Studies.
28. Member of the Permanent Commission of the Board of Directors of Transportation Research Institute.
29. The member of High Council of Iran Aviation Organization Studies.
30. The supervisor of Ministry of Road and Transportation research and Training Center.
31. Editor in chief of Advances in Traffic Engineering Journal.

VIII. Achievements:

1. Receiving Appreciation Letter from as a pioneer in traffic and transportation science from Tehran Construction Engineering Organization.
2. Receiving Appreciation Letter from the members of 14th conference on Housing Development policies in Iran, 2014.
3. Receiving Appreciation Letter as the Exemplary researcher in the field of transportation engineering from 16th International Conference of railway transportation.
4. Appreciation Letter for Publishing the Best Book in Traffic Engineering, at the International Festival of City Management, Tehran, 2012.
5. First Top Student in the High School Diploma (Mathematics & Physics), at Kerman Province (grade 19.11)
6. First Top Graduate at Civil Engineering, B.Sc. Course in Kerman University, 1987.
7. Top Graduate at the MSc. Course in Carleton University and Gaining the Grant for Ph.D. in Canada, 1990.

8. Top Graduate and Student in Ph.D. Course and Granted for Tuition Fee Waiver, 1990.
9. Distinguished Researcher at Tarbiat Modares University, Tehran, Iran 2002-2005.
10. Exemplary University Researcher at the Academic years of 2006 and 2007.
11. Distinguished Lecturer at Tarbiat Modares University, Tehran, Iran, 2001.
12. First Top Researcher in the Field of Road and Transportation in year 2000.
13. Appreciation Letter of Participation in the Supporting Role of Governments of Railroad Transportation
14. Top Employee of the Ministry of Roads and Transportation, at Rajaiee Scientific Festival, 2002.
15. Presentation of the Top Paper at the Second Technology Management Conference, 2005.
16. Appreciation Letter from Ministry of Roads and Transportation for holding the 6th Conference on Rail Transportation Management and Policy Studies, 2000.
17. Receiving Appreciation Letter from the Head of Planning and Budget Organization for the First Conference on Marine Industry, 1998.
18. Receiving Appreciation Letter from the Secretary of the International Council on Energy Economics for Participation in National Energy Conference, 2000-2002.
19. Presentation of the Top Paper at the Fourth, Fifth and Sixth International Conference on Transportation and Traffic Engineering Conference, 2001-2002.
20. Presentation of the Top Paper at the Fourth and Sixth Railroad Engineering Conference, 2001-2002.
21. Receiving Appreciation Letter at the National Civil Engineering Students Festival, 2001- 2003.
22. Receiving Appreciation Letter for Publishing the Best Book in the Field of Roads and Transportation (at the Research Week Festival), 2004.
23. Presentation of the Top Paper at the Fourth Conference on Quality Management, 2003.
24. Receiving Appreciation Letter from Isfahan Municipality for Presentation a Paper at the Citizenship Cultural Development Alternatives Conference, 2004.
25. Receiving Appreciation Letter at the 10th National Civil Engineering Students Conference, as the Member of the Referees of the Conference, 2005.

IX. Journal PAPERS:

- ✓ Shafaati, M., & Saffarzadeh, M. (2024). Does Crowding Have a More Complicated Effect on Public Transport Users with Respect to Perceived Travel Time? Transportation Research Record, 2678(9), 389-422. <https://doi.org/10.1177/03611981241230297> (9-A-136).
- ✓ Hazeghi, M., Saffarzadeh, M., & Mirbaha, B. (2024). Designing and Developing a Model for Detecting Unusual Condition in Urban Street Network. International Journal of Intelligent Transportation Systems Research 2024, 1–18. <https://doi.org/10.1007/S13177-024-00432-1> (9-A-135).

- ✓ Zana Majidi, M., Rasaizadi, A., Majidi, K., & Saffarzadeh, M. (2024). The effect of freeway toll pricing on travel mode changes, route changes, and departure time changes. *Case Studies on Transport Policy*, 17, 101248. <https://doi.org/10.1016/J.CSTP.2024.101248> (9-A-134).
- ✓ Sedigh Bavar, M., Naderan, A. & Saffarzadeh, M. Analysis of Road Crash Frequency with Spatial Models (Case Study: Shiraz Metropolis). *Iran J Sci Technol Trans Civ Eng* 48, 2759–2772 (2024). <https://doi.org/10.1007/s40996-023-01314-4> (9-A-133).
- ✓ Shafaati, M., Saffarzadeh, M. (2024). 'A New Approach to Estimating Destinations in Open Automated Fare Collection Systems based on errors-against-errors strategy', *Scientia Iranica*, doi: 10.24200/sci.2024.61695.7445 (9-A-132).
- ✓ Vaziri, I. ., Ahmadi, F., Talebi Rizi , Z. ., & Saffarzadeh , M. . (2024). The Impact of Interactions between Resources, Technology, and Technical Aspects of Autonomous Vehicles on Urban Smart Spaces. *International Journal of Innovation Management and Organizational Behavior (IJIMOB)*, 4(2), 142-154. <https://doi.org/10.61838/kman.ijimob.4.2.17> (9-A-131).
- ✓ Saffarzadeh, M., & Ranjbari, A. (2023). Crash Prediction Modeling for Horizontal Curves on Two-Lane, Two-Way Rural Highways Based on Consistency and Self-Explaining Characteristics Using Zero-Truncated Data. *KSCE Journal of Civil Engineering*, 27(1), 1-12. <https://doi.org/10.1007/s12205-023-0501-6> (9-A-130).
- ✓ Bavar, M. S., Naderan, A., & Saffarzadeh, M. (2023). Evaluating the spatial effects of environmental influencing factors on the frequency of urban crashes using the spatial Bayes method based on Euclidean distance and contiguity. *Transportation Engineering*, 12, 100181. <https://doi.org/10.1016/j.treng.2023.100181> (9-A-129).
- ✓ Sheikholeslami, S., Saffarzadeh, M., Mamdoohi, A. R., & Asadamraji, M. (2023). How does a driver feel behind the wheel? An exploratory study of drivers' emotions and the effect of their sociodemographic background. *Accident Analysis & Prevention*, 183, 106974. <https://doi.org/10.1016/J.AAP.2023.106974> (9-A-128).
- ✓ Karbasi, A. H., Mehrabani, B. B., Cools, M., Sgambi, L., & Saffarzadeh, M. (2023). Comparison of Speed-Density Models in the Age of Connected and Automated Vehicles. *Transportation Research Record*, 2677(3), 849-865. <https://doi.org/10.1177/03611981221118531> (9-A-127).
- ✓ Mamdoohi, Amir Reza and Saffarzadeh, Mahmood and Taherpour, Abolfazl and Yazdanpanah, Mahdi, Impact of Metro on Modal Shares of Ground Access to IKIA and MIA (February 21, 2012). Available at SSRN: <https://ssrn.com/abstract=4385394> or <http://dx.doi.org/10.2139/ssrn.4385394> (9-A-126).
- ✓ Akram Mazaheri, Mahmoud Saffarzadeh, Seyyed Saber Nasser Alavi. Presenting the substitute safety index of accidents based on the concept of vehicle impact area, *Transportation Engineering Quarterly*, 2023. (9-A-125).
- ✓ Morteza Asdamarji, Mahmoud Saffarzadeh. Model for estimating the frictional cost of accidents in urban roads, *Quarterly Journal of Transportation Engineering*, 2023. (9-A-124).

- ✓ Armin Khalaj Amiri; Hamid Mirzahosseini; Mahmoud Saffarzadeh. "Optimum capacity of metro station with the aim of minimizing respiratory infectious diseases (case study: Imam Khomeini metro station in Tehran)". Quarterly Journal of Transportation Engineering, 2023, doi: 10.22119/jte.2022.368853.2629. (9-a-123)
- ✓ Akram Mazaheri; Mahmoud Saffarzadeh; Seyed Saber Naseralavi. "Development of Surrogate Safety Measure Based on the Concept of Vehicle Influence Area". Quarterly Journal of Transportation Engineering, 14, 2, 2022, 2355-2364. doi: 10.22119/jte.2022.188434.2390. (9-a-122)
- ✓ Babak Mirbaha; Mahmoud saffarzadeh; mohammad poorteimoori. "A methodology to identify unreliable links in a road network after earthquake (Case study: Tehran City Network)". Quarterly Journal of Transportation Engineering, 13, 3, 2022, 1654-1637. doi: 10.22119/jte.2021.235998.2469. (9-a-121)
- ✓ Kamran Rahimof, Mahmoud Saffarzadeh, Mohsen Arjmandi. "Developing of Estimating Multilane Roundabouts Control Delay Models (Case Study: Kermanshah Roundabouts)". Quarterly Journal of Transportation Engineering, 12, 2, 2020, 441-455. doi: 10.22119/jte.2020.105032. (9-a-120)
- ✓ Nemat Soltani, Mahmoud Saffarzadeh, Ali Naderan, Milad Abolhasani. "Evaluation of TAZ safety using EB method and macro models". Quarterly Journal of Transportation Engineering, 13, 1, 2021, 1091-1102. doi: 10.22119/jte.2019.92671. (9-a-119)
- ✓ Ebrahim Amiri; Mehdi Faridzad; Mahmoud Saffarzadeh. "Determining the influence of Speed Cameras in Reducing Speed Violations using Bayesian and Comparison Group Methods (A Case Study in Ghazvin-Rasht and Bam-Kerman Roads)". Quarterly Journal of Transportation Engineering, 11, 3, 2020, 683-696. doi: 10.22119/jte.2020.81089. (9-a-118)
- ✓ Mahmood Saffarzadeh, Shideh Ehteshamrad, Amirreza Mamdoohi "An aggregate model for transit usage in commuting trips", Articles in Press, Accepted Manuscript, Available Online from 04 July 2017. (9-a-117)
- ✓ Ali Abdi, Arsalan Salehikalam, Mahmoud Safazadeh, A.R Aminrad "Identifying Traffic Hysteresis Based on Driver Asymmetric Behavior Model: Before and After Traffic Oscillation, Volume 14, Issue 1, Winter 2017, Page 47-67. (9-a-116)
- ✓ Mahmoud Saffarzadeh, Seyed Ehsan Seyedabrishami, Sajad Hasanpour "Route evaluation for hazardous material based on risk analysis-Case study of Tehran-Mazandaran roads", Volume 8, Issue 3 - Issue Serial Number 31, Spring 2017, Page 405-421. (9-a-115)
- ✓ Mohammadsina Semnarshad, Amir Kavussi, Mahmoud Saffarzadeh "Providing the Maintenance and Rehabilitation Model of Primary Road Network Using Life Cycle Cost Analysis - Case Study South Khorasan Province", Journal of Transportation Engineering, Article in Press, 2017. (9-a-114)
- ✓ Saied Hesami, Mahmoud Saffarzadeh, Mohammad Etghai, "Evaluation o the effects of English wirts size on the visibility of guide signs" Ragvar Journal, Vol. 5, No. 31, Winter 2016. (9-a-113)
- ✓ Majid Zabihi, Mahmoud Saffarzadeh, Syedehsan Seyedabrishami, "Identification if the effective factors on passengers international air flight mode", Journal of Transportation Research, Acceptor, 2016. (9-a-112)

- ✓ Majid Zabihi, A. Mazaheri, S. Seyedabrishami, M. Saffarzadeh "Analysis of Iranian Air Passengers' Behavior Choosing Airlines in International Flights (Case study: Southeast Asia Flights)", Journal of Transportation Engineering, Volume 7, Issue 4, Summer 2016, Page 615-627. (9-a-111)
- ✓ Alireza Mahpour, Amirreza Mamdouhi, Mahmoud Saffarzadeh, Taha Hoseinrasidi, "Providing the Integrated Model of destination choose of cloth shopping trips using Structural Equation Modeling", Modraes Civil Engineering Journal, 2016, Accepted. (9-a-110)
- ✓ Alireza Mahpour, Amirreza Mamdouhi, Mahmoud Saffarzadeh, Taha Hoseinrasidi, "The Analytical Analysis on simoltanous role of Parking Lots and Food courts in Travel Generation to Trade Centers", Sahrif Journal, 2016, Acpted. (9-a-109)
- ✓ Alireza Mahpour, Amirreza Mamdouhi, Mahmoud Saffarzadeh, Taha Hoseinrasidi, "Identification of effective personal factors on client attraction to trade centers, Tehran Case study", Journal of Business Management, 2016, accepted. (9-a-108)
- ✓ Alireza Mahpour, Amirreza Mamdouhi, Mahmoud Saffarzadeh, Taha Hoseinrasidi, "Determination of effective factors on Tehran Bazar shoping destination using Structural Equation Modeling", Human Geography Research Quarterly, 2016, accepted. (9-a-107)
- ✓ Mahmoud Saffazradeh, Seyed Sajad Mazloun "Development of an integrated fleet allocation model and scheduling of Bus Rapid transit network", Modares Civil Engineering Journal, Vol. 15, No. 2, pp. 97-105, 2015. (9-a-106)
- ✓ Ali Khaksari, Elnaz Naseri, Mahmoud Saffarzadeh, "Evaluation and implementation of Complete street in Iran to obtain local base sustainable development (Case study: Iran Zamin Street, Tehran)", Journal of Transportation Engineering (9-a-105)
- ✓ Hooman Alenouri, Sayed Mehdi Meshkani, Mahmoud Saffarzadeh, Saied Sherafatipour, "Locating Even-and-Odd zone entrance cameras by maximum infraction coverage approach", Journal of Transportation Engineering, (9-a-104)
- ✓ Mahmoud Saffarzadeh, Ali Abdi, "Hysteresis phenomenon Analysis in Stop-and-Go traffic flow based on behavioral evaluation of a driver after the disturbance", transportation research Journal, Code:93-1658 (9-a-103)
- ✓ Mahmoud Saffarzadeh, Ali Abdi, "Measuring and identification of Hysteresis phenomenon based on Kinematic wave and driver behavior", Traffic Engineering Journal, Code:1393-781 (9-a-102)
- ✓ Mahmoud Saffarzadeh, Seyed Ehsan Seyedabrishami, Sajad Hasanpour, "Route Evaluation for Hazardous Material Based on Risk Analysis: Case Study of Tehran-Mazandaran Roads", Journal of Transportation Engineering, Volume 7, Issue 1, Spring 2015, Page 73-86.
- ✓ Mojtaba Kazemi, Mahmud Saffarzadeh, Hadi Movaghari, Mohsen Fallah zavare, "A Method for Estimating Costs of Road Traffic Crashes in Iran, Journal of Transportation Engineering, Volume 6, Issue 4, Summer 2015, Page 627-640.
- ✓ Amin mirza Boroujerdian, Mahmoud Saffarzade, Ali Ghasemzadeh Khoshgroudi, "Using Spatial Autoregressive Lag Model to Predict Crash Rates in Roads Segments (Maximum Likelihood Estimation)", Volume 6, Issue 3, Summer 2015, Page 383-396.

- ✓ Mahmoud Saffarzadeh, et. Al., "Considering the Effect of Road Pricing on Modal Choice by Preferences and Choice Method" The Modareds Journal of Civil Engineering, To be published, Volume 14, Issue 4, Winter 2015, Page 137-148 . (9-a-95)
- ✓ Aminmirza Boroujerdian, Mahmoud Saffarzadeh, Asghar Mousavi, " Safety Evaluation of converting Two Lane Roads to Four Lane Roads" Rahvar Scientific Research Journal, No. Fall 2014 (9-a-101)
- ✓ Seyed Ramtin Bagheri, Mahmoud Saffarzade, "Estimation of proposing a new model to reduce probability of bird accident with airplane", Jadeh Journal, (9-a-100)
- ✓ Mohammad Tamanai, Mahmoud Saffarzadeh, Amin Jamili, Seyed Ehsan Seyedabrishami, "Rail Departure Timing Using Branch and Bound Algorithm and beam search" Journal of Transportation Engineering, Code: 92-1238, (9-a-99)
- ✓ Aminreza Mamdouhi, Mahmoud Saffarzadeh, Siavash Shojaat, "A Stochastic Approach to Freeway Capacity Estimation: Tehran-Karaj Freeway Case Study" The Modares Journal of Civil Engineering, Volume 4, No. 2, Summer 2014, (9-a-98)
- ✓ Mahmoud Saffarzadeh et. al., "Locating the Even-Odd Zone cameras by Obtaining the maximum Coverage of Infractions" Journal of Transportation Engineering, Vol. 4, No. 2, Winter 2014, (9-a-97)
- ✓ Mahmoud Saffarzade, Saied Hesami, Mohammad Etghai, Farshidreza Haghighi, "Prioritization of highways to demonstrate on guide signs using modeling approaches (Case Study: Valiasr Highway, Sari), Jadeh Journal, Vol. 78, Spring 2014.
- ✓ Mahmoud Saffarzadeh, et. Al., "Determination of Optimal Tariff for vehicle Ownership and Vehicle Use by minimizing the external Costs" Quarterly Journal of Transportation Engineering, to be published. (9-a-96)
- ✓ A. Bazargani, A. Mamdouhi, M. Saffarzade, "Development of Linear Programming Model to Achieve Optimal Ramp Metering: Hemat Highway Case Study). The Modareds Journal of Civil Engineering, Volume 14, especial summer, Summer 2014, Page 147-158. (9-a-94)
- ✓ Mahmoud Saffarzadeh, et. Al., "A Method to Estimate Coefficients of Trip Demand Matrix in Ramp Metering Optimization Models", Journal of Traffic Engineering, May 2013. (9-a-93)
- ✓ Mahmoud Saffarzadeh, et, Al., " A communication Algorithm for Automatic Vehicle Location in Disaster Management", Journal of Transportation Technology, Vol. 6, No. 17. Pp73-80, winter 2012. (9-a-88)
- ✓ Mahmoud saffarzadeh, et. Al., " Offering trains time schedule model by consideration of special restrictions on single lane road in Iran Rail network", Quarterly Journal of Transportation Engineering, Vol. 4, No. 2, pp. 73-80, winter 2012. (9-a-93)
- ✓ Mahmoud Saffarzadeh et. Al., "Sensitivity analysis on road transportation network with simultaneous change in demand and supply in disaster time", Quarterly journal of traffic management, Vo. 7, No. 26, fall 2012. (9-a-91)

- ✓ 4) Mahmoud Saffarzadeh et. al., "Development of Sped-Density model on the basis of local stream data, Tehran- Qom freeway", Vol. 7, No. 25, summer 2010. (9-a-90)
- ✓ Mahmoud Saffarzadeh, et. Al., "A Safety Evaluation Method based on the Fatal Accident Data", RAHVAR Quarterly Journal, Vo. 9 No. 18, PP 85-104, Summer 2012. (9-a-89)
- ✓ Mahmoud Saffarzadeh, et. Al., "Comparative Study of Traffic Fines in Iran with other Countries", RAHVAR Quarterly Journal, Vo. 9 No. 17, PP 59-74, Spring 2012. (9-a-86)
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