

# Curriculum Vitae

## Biographical Information:

Date of birth: 31/08/1963, Shahr Babak, Iran

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## Education:

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

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

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

## Professional Academic Activities:

- Research and Technology vice- presidency of BHRC (2014- now)
- 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)

## Research Interest:

- 1) Planning & Design of Airports
- 2) Transportation Terminals
- 3) Traffic Engineering
- 4) Transportation Safety
- 5) Advanced Highway Design
- 6) Intelligent Transportation System

## Books:

1. Mahoud Saffarzadeh, Ramtin Bagheri, "How to make two lane roads Safer, Law Enforcement publication, winter 2012.
2. Mahmoud Saffarzadeh., "Transportation Engineering", Second Edition, Volumes I & II. Tarbiat Modares University Press, Tehran October. 2011.
3. Mahmoud Saffarzadeh, 'Geometric Design of Highways and Streets', Volume 2 and 3, Transportation Research Institute, Iran, August 2009.
4. Mahmoud Saffarzadeh, 'Geometric Design of Highways and Streets', Transportation Research Institute, Iran, June 2008.
5. Mahmoud Saffarzadeh, "Marine Transportation", Ports & Shipping Agency, 2006.
6. Mahmoud Saffarzadeh, "Planning and Design of Airports", Second Edition. Vol. I and II, Transportation Research Institute, Tehran, Iran, Aug. 2004.

7. Mahmoud Saffarzadeh, Farzad Rahimi, "Noise Pollutions of Transportation System", Environment Protection Agency Nov., 2003.
8. Mahmoud Saffarzadeh, "Land Transportation Impact on National Economy", Research and Education Center, Ministry of Road and Transportation, Tehran, Iran, 1998.
9. Mahmoud Saffarzadeh, "Airport Master Planning Manual", Research and Education Center, Ministry of Road and Transportation, Tehran, Iran 1997.

### **Research Projects:**

1. Development of a Model to Forecast the Fleet Size and its Category for the 20 Year Horizon, Civil Aviation Organization, Tehran, Iran, 2009.
2. Mashhad Transportation and Traffic Comprehensive Plan, Municipality of Mashhad, Iran, 2009.
3. Effective Parameters of Developing Air Transport Market in Iran, Transportation Research Institute, Iran, 2008.
4. An Optimum Budget Allocation Model for Repair and Maintenance of Roads, Ministry of Roads and Transportation, Iran, 2008.
5. An Optimum Site Selection Model for Road Lighting, Transportation Research Institute, 2008.
6. Determination of New Technology for Repair and Maintenance of Roads, Ministry of Roads and Transportation, Iran, 2008.
7. Development of ARAS Airport Master Plan, ARAS Free Trade Zone Organization, Iran, 2008.
8. Development of Shiraz Airport Master Plan, Airport Engineering Company, 2007.
9. Road Safety Manual, Seven Volume, Publication No. 231, Planning and Management Organization, 2006.
10. Design Manual of Ports and Offshore Structures, Eleven Volumes, No. 240, Planning and Management Organization, 2005.
11. Design Manual of Asphalt Concrete Pavement, No. 234, Planning and Management Organization, 2002.
12. Airport Airside Design Manual, No. 233, Planning and Management Organization, 2001.
13. Abstract Proceeding of 8<sup>th</sup> International Conference of Transportation, Belgium, Research and Education Road and Urban Development Publication Center
14. Airport Landside Design Manual, No. 197, Planning and Management Organization, 2000.
15. Identification of Housing Information Needs Building and Housing Research Center, Iran, 1998.
16. Analysis of Strengths and Weaknesses of Freight Movement through Iran, Transportation Research and Education Center, Tehran 1998.

### **Memberships and Affiliations:**

1. Member of the Iranian Association of Transportation and Traffic Engineering, 1995.
2. Member of the Railroad Research Council, 1999.
3. Member of the Scientific Committee of the Regional Conference on Transportation and Traffic Engineering, 2004.

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

### **Work Experiences:**

1. Deputy of Research and Technology of Road, Housing and Urban Development Research Center, 2014
2. Deputy Head and director general of private research organization union, 2013.
3. Dean of Faculty of Civil and Environmental Engineering, Tarbiat Modares University, 2011.
4. Editor-in Chief, International Journal of Transportation Engineering (IJTE) , 2012.
5. Research Deputy of Faculty of Engineering, Tarbiat Modares University, 2008.
6. Director of Road and Transportation Department, Tarbiat Modares University, 2008.
7. Editor In Chief, RAHVAR, Journal, 2008.
8. Editor In Chief, Journal of Traffic Management Studies, 2007.
9. Member of the Editorial Board of the Civil Engineering Journal, Tarbiat Modares University, 2009.
10. Head of development and supplementation of Transportation Infrastructures Expert Group , International Transit Festival
11. Editor In Chief, Journal of Transportation Engineering (JTE), 2009.
12. Head of Traffic and Transportation Committee for the International Logistic and Supply Chain Conference, 2009.
13. Member of Traffic research council for the Municipality of Tehran, 2009.

14. Vice President of Iranian Traffic Expert Society, 2006.
15. Head of Scientific Committee, the 8<sup>th</sup> Transportation and Traffic Conference.2007
16. Head of the Roads and Transportation Research and Education Center, 1997.
17. Secretary, High Technical Council on Transportation Infrastructures, 1997.
18. Research Deputy of Transportation Research Institute, 2003.
19. Secretary of the National Council for Reviewing, Evaluating and Approval of Comprehensive Transportation Studies, 2002.
20. Member of the Board of Directors, Meteorological Research Institute, 2005.
21. Secretary, Council on Transportation Policies, 1999.
22. President, Headquarters on Transportation Comprehensive Studies, 1998.
23. Member of the Permanent Commission of the Board of Directors of Transportation Research Institute, 2003.
24. Editor in chief of Transportation Research Journal, 2004.
25. Member of the Board of Directors, Transportation and Traffic Organization, 2005.
26. Editor in chief of Traffic Engineering Journal, 2006.
27. Technical Expert of the Development and Construction Committee of Jihad Sazandegi 1989.

#### **Achievements:**

1. Selected as the first researcher with the most number of ISC publications, 2013
2. The first selected book in international urban management festival
3. Distinguished traffic safety researcher at the tenth scientific safety and security festival, 2013
4. Best research project at tenth scientific safety and security festival, 2013
5. Appreciation Letter for Publishing the Best Book in Traffic Engineering, at the International Festival of City Management, Tehran, 2012.
6. First Top Student in the High School Diploma (Mathematics & Physics), at Kerman Province (grade 19.11)
7. First Top Graduate at Civil Engineering, B.Sc. Course in Kerman University, 1987.
8. Top Graduate at the MSc. Course in Carleton University and Gaining the Grant for Ph.D. in Canada, 1990.
9. Top Graduate and Student in Ph.D. Course and Granted for Tuition Fee Waiver, 1990.
10. Distinguished Researcher at Tarbiat Modares University, Tehran, Iran 2002-2005.
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.
26. Exemplary University Researcher at the Academic years of 2006 and 2007.

### **Journal Papers:**

1. 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)
2. 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. (9-a-95)
3. 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, to be published. (9-a-94)
4. 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)
5. 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)

6. 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)
7. 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)
8. 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)
9. 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-87)
10. 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)
11. Mahmoud Saffarzadeh, et. Al., "Analysis of Pedestrian accident in Iran and Proposing Solutions for its alleviation", Journal of Jaddeh, No. 69 PP233-248, Winter 2011. (9-a-85)
12. Mahmoud Saffarzadeh, and Babak Mirbaha., "Economic Evaluation of Infrastructure Development at Congested Urban Corridors", Sharif University Research Journal, Vol. 2, No. 3, PP 65-73, Winter 2011. (9-a-84)
13. Mahmoud Saffarzadeh, et. Al., "An Optimum Route Selection Model for Public Transportation and Bus Rapid Transit", Journal of Transportation Engineering, Vol. 2, No.4, PP 303-316, summer 2011. (9-a-84)
14. Mahmoud Saffarzadeh, et. Al., "Risk Evaluation of Dangerous Good Movement in Roads, RAHVAR Journal, Vol.8, No. 16, PP 7-18, Winter 2011. (9-a-83)
15. Mahmoud Saffarzadeh, et. Al., "Application of Simulation in Car-Following Model of Traffic studies", RAHVAR Journal, Vol.8, No. 15, PP 59-74, autumn 2011. (9-a-82)
16. Mahmoud Saffarzadeh, et. Al., "Using NGSIM data as a Useful tool in in Simulation of Traffic Flow", RAHVAR Journal, Vol.8, No. 14, PP 65-76, summer 2011. (9-a-81)
17. Mahmoud Saffarzadeh, and Reza Assedolahi, "Development of a Model for Design of Bicycle Route Network; Case Study, Qom", Journal of Transportation Engineering, Vol. 8 No. 2, pp 101-105 Summer 2011. (9-a-80)
18. Mahmoud Saffarzadeh, and Majid Zabihi, "An Optimum model for the Hub and Spoke Network based on Air Traffic demand", Research Journal of Modares, Vol. 11, No., 4, PP 57-68, Winter 2011. (9-a-79)
19. Mahmoud Saffarzadeh, and Ramtin Bagheri, “Comparison of Pedestrian Walkway Facilities to improve their safety and Prevent Accident”, Traffic Management Studies Journal, spring 2011. (9-a-74)

20. Mahmoud Saffarzadeh, and Maryam Nakhaiee, "Development of a Pricing Model for on-Street Parking to increase parking Garages", *Transportation Research Journal*, Vol. 7, No. 4, PP 375-388 winter 2010. (9-a-77)
21. Mahmoud Saffarzadeh, and Shahab Hassanpour, "Airport Classification based on operational and Level of Service Using AHP", *Modares Research Journal*, Vol. 10, No. 4, PP 33-47, Winter 2010. (9-a-76)
22. Mahmoud Saffarzadeh, et. Al., "Studying the Causes and Factors Effective in Reducing Rural Accidents in Iran Using Regression Models of LR, CRT and GLM", *Journal of Disciplinary Knowledge*, Vol. 12, No. 1, 2010. (9-a-75)
23. Seyyed Saber Nasser Alavi, Mahmoud Saffarzadeh, Navid Nadimi and Amir Reza Mamdouhi, "Using Time-to-accident Index to Enhance the Regression Model of the GHR Vehicle Chasing in Negative Acceleration", *Modares Civil Engineering Journal*, Vol. 11, No. 1, 2011. (9-a-73)
24. Mahmoud Saffarzadeh and Ali Torabi, "Development of a Model to Determine the Optimum Corridor Considering Environmental Conditions in GIS", *Journal of Traffic Engineering*, Vol. 11, No. 44, 2010. (9-a-72)
25. Mohsen Hadigheh Javani, Mahmoud Saffarzadeh and Seyyed Saber Nasser Alavi, "Studying a Prioritization Model to Increase Pedestrian Safety in Walkways Using Artificial Neural Networks (ANN)", *Journal of Traffic Management Studies*, Vol. 5, No. 16, 2010. (9-a-71)
26. Seyed Saber Nasser Alavi, Mahmoud Saffarzadeh and Navid Nadimi, "Estimation of the Behavior of Vehicle Chasing Using the Principles of Differential Equation", *Journal of Transportation Research*, Vol. 7. No. 3, 2010. (9-a-70)
27. Seyed Saber Nasser Alavi, Mahmoud Saffarzadeh, Amir Reza Mamdouhi and Navid Nadidmi, "Introduction of an Emergency Braking Safety Index for In-time Recognition of Rear-End Collision", *Transportation Engineering*, Vol. 1, No. 3, 2010. (9-a-69)
28. Mahmoud Saffarzadeh, et. Al., "Using Time-to-accident Index for Development of Accident Prevention Systems", *Journal of Traffic Engineering at Tehran Transportation and Traffic Organization*, Number 43, 2010. (9-a-68)
29. Mahmoud Saffarzadeh, Yashar Zeinali, "An Optimum Site Selection Model for Trade Logistic Centers to Serve Goods Transit in ECHO", *Transportation Engineering Journal*, Vol. 1, Number 2, Feb. 2010. (9-a-67)
30. Mahmoud Saffarzadeh, et., el., "Evaluation of Car Following Model in Traffic Flow Simulation Using VISSIM", *Rahvar Journal*, Vol. 7, No. 9, March 2010. (9-a-66)
31. Mahmoud Saffarzadeh, Mohsen Zahedi, "Effect of Pavement Roughness and Lighting on Freeway Free Flow Speed", *Transportation Research Journal*, Vol. 7, No. 1, April 2010.(9-a-65)
32. Mahmoud Saffarzadeh, Maghsood Pooriari, " Evaluation of Bus Trip Risk in an Intercity Major Highway", *Traffic Management Journal*, Vol. 4, No. 14, Nov. 2009.(9-a-64)
33. Sayed Saber Naser Alavi, Mahmoud Saffarzadeh, Mostafa Adresi, "Evaluation and comparison of safety measurement methods according to accidents and vehicle

- interaction data”, RAHVAR journal, Vol. 6, No. 6, PP. 23-40, summer 2009. (9-a-60)
34. Mahmoud Saffarzadeh, Kambiz Mostofi, " Demand Diversion of Air Transit in the Over Flight Sector", Journal of Civil Engineering, University of Mashhad, Vol. 21, No. 1, Sept. 2009. (9-a-63)
  35. Mahmoud Saffarzadeh, et., el.,”The Role of Human Factors in Severity of Road Accident Based on LR and CART regression Models, Journal of Traffic Management Studies, Vol. 4, No. 13, 2009.(9-a-62)
  36. Mahmoud Saffarzadeh & Saber Alavi, “Fleet Planning Based on the Research optimum Methods”, Journal of Transportation Research, Vol. 6, No. 2, 2009. (9-a-61)
  37. Mahmoud Saffarzadeh, et., el.,” Economic Evaluation of Using Compressed Natural Gas in Tehran Bus Transportation System, Journal of Transportation Research , Vol. 6, No. 1, 2008. (9-a- 60)
  38. Mahmoud Saffarzadeh, Ali Abdi, “Effective Parameters on Safety of Aircraft Landing Based on the Capacity of Airport Airside”, Journal of Roads No. 65, 2009. (9-a- 59)
  39. Mahmoud Saffarzadeh, et., el.,” Evaluating the Visibility of Highway Information Signs Based on Mathematical Models”, Journal of Traffic Management Studies, Vol. 3, No. 11, 2009. (9-a- 57)
  40. Mahmoud Saffarzadeh, et., el.,” Developing a Model for Selecting At-grade Intersection or Interchange on Multilane Highways”, Journal of RAHVAR, Vol. 5, No. 3, 2008. (9-a- 56)
  41. Mahmoud Saffarzadeh, et. Al., “Capacity Assessment of Commercial Ports in the next Twenty Years”, Journal of Roads No. 62, 2008. (9-a- 55)
  42. Mahmoud Saffarzadeh, H. Tazar,” The Role Comfort and Convenience on the Increase of Public Transportation Demand”, Journal of Traffic Management Studies, Vol. 3, No. 9, 2008. (9-a- 54)
  43. Mahmoud Saffarzadeh, et. el.,” A New Model in Runway Operation Management to Increase Airport Airside” Journal of Transportation Research ,Vol. 5, No. 62, 2008. (9-a- 53)
  44. Mahmoud Saffarzadeh, et., el.,” Identification of Effective Parameters in Prioritizing Accident Prone Areas Based on Group AHP“, Journal of Transportation Research, Vol. 5, No. 2, 2008. (9-a- 52)
  45. Mahmoud Saffarzadeh, Ali Babazadeh, “Application of Horizontal and Vertical Transition Curves in Road Geometric Design”, Journal of Transportation Research ,Vol. 5, No.61, 2008. (9-a- 51)
  46. Mahmoud Saffarzadeh, & Shahn Shabani, “An Accident Forecasting Model for Horizontal Curves in Intercity Roads”, Journal of Transportation Research, Vol..4 No.3, 2007. (9-a- 50)
  47. Mahmoud Saffarzadeh, & Hadi Ganji , “ Using Bayesian Theory to Determine Risk in Homogenous Road Sections”, Journal of Transportation Research, Vol. 4 No. 4, 2007. (9-a- 49)



48. Mahmoud Saffarzadeh, & Babak Mirbaha, "Development of Operational Process of ITS in Traffic Management of Roads, Journal of Road , No. 60 , 2007. (9-a- 48)
49. Mahmoud Saffarzadeh, & Mohammad Erfani, " An Economic Evaluation Model to Evaluate Urban Intelligent Transportation Systems, Journal of Road, No. 59, 2008. (9-a- 47)
50. M. Saffarzadeh, S.M. Dibaj, "Evaluation Aviation Accident and Offering Proper Solution", Road Journal, No. 58, Tehran/Iran, Summer 2007. (9-a- 46)
51. M.Saffarzadeh et. al, "A Mathematical Model for Measuring Fuel Productivity in Land Transportation", Quarterly Economic Researches, Summer 2007. (9-a- 45)
52. M.Saffarzadeh, V. Abolhassan nejhada, "Development of Cause-Oriented Prioritization Model to Identify Hazardous Road Segment for Pedestrians", Tehran Engineering Research Journal, (Accepted), Tehran, Iran, 2006. (9-a- 44)
53. Mahmoud Saffarzadeh, V. Abolhassan nejhada, "Modification of Road Accident Report Form in Iran Based On Importance of Accident Causes", Road Journal, No. 57, Tehran/Iran, spring 2007. (9-a- 43)
54. M. Saffarzadeh, B. Mirbaha, "Presenting a Regional ITS Architected Pattern", Transportation Research Journal, winter 2007. (9-a- 42)
55. M. Saffarzadeh, V. Abolhassan Nezhad, "Presenting a Pattern for Planning and Implementing Ways and Means of Traffic Calming", Traffic Management Journal, 1st Year, No. 3, Tehran/Iran, Winter 2007. (9-a- 41)
56. M. Saffarzadeh et. al., "Techno-Economical Comparison of Surface Asphalt and Hot Asphalt Concrete in Minor and Rural Roads", Road Journal, No. 56, Tehran/Iran, winter 2007. (9-a- 40)
57. M. Saffarzadeh & A. Abdi, "Analysis of Effective Factors in the Capacity of Airport Flight Operations Field with Emphasis on Runways", Road Journal, No. 56, Tehran/Iran, Winter 2007. (9-a- 39)
58. M. Saffarzadeh & M. Erfaani, "Presenting a Pattern for Analyzing the Benefits of Urban ITSs", Traffic Innovation Journal, 8<sup>th</sup> Year, No. 30, Tehran/Iran, autumn 2006. (9-a- 38)
59. Mahmoud Saffarzadeh, Maghsood Poryari, "Developing a Safety Indent for Intercity Rural Roads" Modares Engineering Research Journal, Tehran, Iran, 2006. (9-a- 37)
60. A. kavoosi, M. Saffarzadeh & M. Esmalee, "Individual Study Using Pavement Design "Pave Mode Design" Software", Road. Journal, No. 55, Tehran/Iran, autumn 2006. (9-a- 36)
61. M. Saffarzadeh, et. Al., "Development of a Pavement Management Model At the Project Level by Analytical Hierarchy Process(AHP).", Transportation Research Journal, summer 2006. (9-a- 35)
62. M. Saffarzadeh & M. Zahedi, "Dynamic Planning for the Bus System Schedules", Road. Journal. No. 54, Tehran/Iran, Summer 2006. (9-a- 34)
63. M. Saffarzadeh & Sh. Norooni, "Methodology for Using ITS (Intelligent Transportation System) in Urban Transportation Studies", Raahvar Scientific Journal, No. 13, 3rd Year, Tehran/Iran, Sep. 2006. (9-a- 33)
64. M. Saffarzadeh & M. Asad Amraji, "Evaluation of Road & Traffic Parameters on Mountainous Roads Landside Events", Transportation Research Journal, 3rd year, No. 4. Winter 2007. (9-a- 32)

65. M. Saffarzadeh & A. M. Broojerdian, "Optimum Route Location Consideration Trip Generation Centers and Protected Zone", Iranian Journal of Science & Technology Transaction B, (Accepted), Shiraz University, Shiraz 2007. (9-a- 31)
66. Mahmoud Saffarzadeh, et. Al., "An Optimum Corridor Location for Roads and Railways "Tehran University Research Journal, Tehran, Iran, 2006. (9-a- 30)
67. Mahmoud Saffarzadeh, Mehran Ghorbani, "An Intercity Air Transportation Demand Model" Modares Engineering Research Journal, Tehran, Iran, 2006. (9-a- 29)
68. Mahmoud Saffarzadeh, Ali Malakzadeh, "An Application of Cost-Benefit Analysis in Selection of a Public Transportation System for an Urban Corridor" Economic Research Journal, (Accepted), Tehran, Iran, 2006. (9-a- 28)
69. Mahmoud Saffarzadeh et. Al., " Determination of initial Land Transport Corridor Based on Construction on Mandatory and Prohibited Points"
70. Mahmoud Saffarzadeh, Hiva Julideh, "An Airport Site Selection Model Based on Permutation Methods" Transportation Engineering Research Journal, Vol.2, No.3, autumn 2005. (9-a- 27)
71. Mahmoud Saffarzadeh, Mohamed Ramezani, "Development of a Strategic Model for Air Transportation Satellite Navigation System" Journal of Roads, No. 53, August. 2005. (9-a- 26)
72. Mahmoud Saffarzadeh, Samad Afkar, "A Techno-Economic Model for Selection of High Speed Intercity Rail Transportation", Transportation Research Journal, Vol.2, No.2, summer. 2005. (9-a- 25)
73. Mahmoud Saffarzadeh, Amir Fakhro, "Development of a Techno- Economical Model for Construction of Freeways & Highways", Transportation Engineering Research Journal, Vol.1, No.2, spring. 2005. (9-a- 24)
74. Mahmoud Saffarzadeh, Mohsen Negahban, "Location of Weigh in Motion Systems in Tehran-Karaj Freeway", Journal of Roads No. 52, Winter. 2004. (9-a- 23)
75. Mahmoud Saffarzadeh, Behrouz Karbasi, "Optimum Models for Bridge Repair and Maintenance Operations Using Dynamic Programming", Transportation Research Journal, Vol 1, No.1, Fall 2004. (9-a- 22)
76. Mahmoud Saffarzadeh, et. al., "Analysis of Management and Control Techniques to Improve Ground Transportation Safety", Law Enforcement Quarterly, Number 2, Oct, 2004. (9-a- 21)
77. Mahmoud Saffarzadeh, et. al, "Social Acceptance of Transportation Infrastructure Projects", Journal of Roads, Number 50, March 2004. (9-a- 20)
78. Mahmoud Saffarzadeh, Mohsen Zahedi, "Selection and Design of Highway Pedestrian Crossing in Urban and Rural Areas", Journal of Roads, Number 51, Dec. 2004. (9-a- 19)
79. Mahmoud Saffarzadeh, Reza Elyasi, "A Road Repair and Maintenance Model Based on Analytical Hierarchical Process", Engineering Journal of Modares, No. 15, spring. 2004. (9-a- 18)
80. Mahmoud Saffarzadeh, Ali Ghaemi, "Development of a Computerized Model for Design of Airport Obstacle Free Areas", Research Journal of Mashhad University, Volume 15, No, 2, 2003. (9-a- 17)

81. Mahmoud Saffarzadeh, Maziar, Razmavar, "A Prioritized Model for Development and Maintenance of Highways Using HDM4", Journal of Roads, Number 49, Dec. 2003. (9-a- 16)
82. Mahmoud Saffarzadeh, Ali Abedian, "A Prioritization Model for Design & Construction of Roads in International Corridors", Journal of Road, No. 48, Summer 2003. (9-a- 15)
83. Mahmoud Saffarzadeh, Reza Ahadi, "Analytical Study of Probable Peak Vehicle Load on Rigid Pavement", Journal of Road, Number 46, December 2002. (9-a- 14)
84. Mahmoud Saffarzadeh, Farzad Rahimi, "Empirical Analysis of Noise Pollution Related to Transportation Systems", Journal of Nivar, Number 45, June 2002. (9-a- 13)
85. Mahmoud Saffarzadeh, Sohila Moradi, "Environmental Impact Assessment Methods of Transportation Infrastructure Projects", Journal of Road, Number 45, July 2002. (9-a- 12)
86. Mahmoud Saffarzadeh, Hamid Bahramian, "An Optimum Budget Distribution Model for Roads Repair and Maintenance", Journal of Roads, No. 46, winter, 2002. (9-a- 11)
87. Mahmoud Saffarzadeh, and G. Masoumi, "An Optimum Computerized Model for Design of Airport Aprons", Engineering Journal of Esteghlal, Volume 20, No.2, Isfahan, 2002. (9-a- 10)
88. Mahmoud Saffarzadeh, "Perspectives of North-South Transport Corridor for the Development of Asia-Europe Trade", Technical Bulletin of Railways, No. 3, Vol. 2, 2001. (9-a- 9)
89. Mahmoud Saffarzadeh, M. Hossienmardi, "An Optimum Model for Intercity Public Passenger Transportation", Journal of Road, No 43, Dec., 2000. (9-a- 8)
90. Mahmoud Saffarzadeh, and Javad Hedayati, "Transport Infrastructure Development in Iran", Journal of Road, Vol. 42, March 2000. (9-a- 6)
91. Mahmoud Saffarzadeh, and Javad Hedayati, "The Role of Iran Transportation Infrastructure in Development of International Trade Market" Journal of Road, Vol. 42, March 2000. (9-a- 7)
92. Mahmoud Saffarzadeh, and Javad Hedayati, "Potentials and Constraints of Transportation of Goods through Iran", Journal of Road, Vol. No. 41, Iran, 1999. (9-a- 5)
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103. Mahmoud Saffarzadeh, and G. Masoumi, "An Optimum Computerized Model for Design and Operation of Airport Aprons", the Fifth International Conference of Civil Engineering, Mashhad, May 2000. (10-a- 13)
104. Mahmoud Saffarzadeh, and Ahmad Alimohamadi, "Impact Assessment of Towers at the Urban Traffic Network", the Fifth Transportation and Traffic Conference, Tehran, March 2000. (10-a- 12)
105. Mahmoud Saffarzadeh, and Ali Shafabakhsh, "New Techniques of Good Movement at Congested Urban Corridors", the Fifth Transportation and Traffic Conference, Tehran, March 2000. (10-a- 11)
106. Mahmoud Saffarzadeh, and Reza Rezaee, "Comparison of Rail and Road Transportation Based on Energy Consumption", the Fifth Railway Conference, Tehran, April 2000. (10-a- 10)
107. Mahmoud Saffarzadeh, and Javad Hedayati, "Analysis of Transit Railway Corridors", the Fifth Railway Conference, Tehran, April 2000. (10-a- 9)
108. Mahmoud Saffarzadeh, and Mehdi Mokhber, "Integration of Urban Railway and Road Transportation", the First Urban Railway Conference, Tehran, Nov. 1999. (10-a- 8)
109. Mahmoud Saffarzadeh, and Abdolreza Mohebi, "Analysis of Shippers Integration", the First Conference on Water Transportation, Tehran, 1999. (10-a- 7)
110. Mahmoud Saffarzadeh, and Mehdi Mokhber, "An Accident Analysis Model Based on Geometric Design and Environmental Conditions" the Fourth Conference of Traffic Engineering, Tehran, Feb. 1999. (10-a- 6)

111. Mahmoud Saffarzadeh, "Analysis of Rail Access to Airports" the Fourth Conference on Rail Transportation, Tehran, 1998. (10-a- 5)
112. Mahmoud Saffarzadeh, and Gholamreza Masoomi, "A Systematic Methodology to Develop Airport Master Plans" the Second International Air-Space Conference, Isfahan, 1998. (10-a- 4)
113. Mahmoud Saffarzadeh, and Reza Elyasi, "Application of Geographic Information Systems in Aviation Industry" the Fifth GIS Conference, Tehran, 1998. (10-a- 3)
114. Mahmoud Saffarzadeh, "The State of Art in Airport Terminal Simulation Model" the Fourth International Conference on Civil Engineering, Tehran, 1997. (10-a- 2)
115. Mahmoud Saffarzadeh, "The Effects of Multi-modal Transportation Terminals in Public Transportation System", the Second Conference on Traffic Engineering, Tehran, 1996. (10-a- 1)

## **B-International Conference**

1. Seyed Ramtin Bagheri, Mahmoud saffarzadeh, Bijan Vasigh, "Impact of Bird stikes on aircraft operation and prevention methods case study: Iranian airports" ATRS 2014, Frence, June 2014.
1. Majid zabihi, Akram Mazaheri, Mahmoud Saffarzadeh, Seyed Ehsan seyed Abrishami, "Analysis of comtetition between Iranian anf foreign airlines byusing discrete choice model", ATRS 2014, Frence, June 2014.
2. Mahmoud Saffarzadeh, et. al., " sensitivity of conflict frequencies to threshold of performance indicators: an empirical study", 17th IRF World Meeting Riyadh, Saudi Arabia, November 2013.
3. Mahmoud Saffarzadeh, et. al., "Technical and Economical Comparison of using its technology for enforcement of plate number rationing in Tehran (even- odd zone)"13 th WCTR, July 15-18, 2013- Rio de Janeiro, Brazil.
4. Mahmoud Saffarzadeh, et. al., " Identify Factors Influence Injury Severity of pedestrians in rural Crashes ,International Conference Road Safety & Simulation ,RSS2013 22-25 October, Rome, Italy.
5. Mahmoud Saffarzadeh, Ali Ghasemzadeh Khoshkroudi., "Traffic Management Systems Used in Tunnel" EnCon 2012 International Conference, Engineering Towards Change-Empowering Green Solutions, Hong Kong, July. 10-12,2012, Kuching, Sarawak(10-b- 42)
5. Mahmoud Saffarzadeh, et. al., " Airport Choice Model for Tehran Metropolitan Area" 2012 International Conference on Traffic & Transportation Engineering (ICTTE 2012), Hong Kong, Feb. 17-18,2012, (10-b- 41)
6. Mahmoud Saffarzadeh, Ali Ghasemzadeh Khoshkroudi, "Traffic Management Systems Used In Tunnel" EnCon 2012, 5<sup>th</sup> Engineering Conference, Engineering Towards Change- Empowering Green Solutions" Sarawak, Kuching, 10-12<sup>th</sup> July 2012 (10-b- 40)
7. Mahmoud Saffarzadeh, et. al., " An Analysis of Air Passengers Behavior of Combined Airport & Airline Choice in Multi –Airport Region" International

- Association of Computer Science & Information Technology, Hong Kong, Feb. 17-18, 2012 (10-b- 39)
8. Mahmoud Saffarzadeh , Hamidreza bahramian, "Roadmap for Implementation of Performance Based Navigation(PBN) in Iran", ATRS 2012, TAIWAN, June 2012. (Babak Mirbaha 10-b- 38)
  9. Mahmoud Saffarzadeh , Babak Mirbaha, "A Route Guidance Model Based on System Optimality Level and Deterministic Route Choice Behavior", 16<sup>th</sup> Symposium in Quantitive Methods in Transportation Systems , Lausanne,September 2012. (10-b- 37)
  10. Mahmoud Saffarzadeh , Babak Mirbaha, "A Model For Predicting Student Accident in Vicinity of Rural Roads", 16<sup>th</sup> International Road Federation Conference, Lisbon, Portugal, May 2010. (10-b- 36)
  11. Mahmoud Saffarzadeh , Yashar Zeinali, "Dynamic Air Fleet Assignment Model Based on Demand And Fleet Operational Specification", Air Transport Research Conference, Porto, Portugal, 2010. (10-b- 35)
  12. Mahmoud Saffarzadeh , Vahid Aboulhasannejad, "Influence of Accident cause on Ranking Hazardous Road Sections", 15<sup>th</sup> International Conference Road Safety on Four Continents, Abu Dhabi, 28-30 March 2010. (10-b- 34)
  13. Mahmoud Saffarzadeh , et. al., "A Policy Marking Tool for Optimization of Transit Priority Lanes in an Urban Network" , Presented at the 91th TRB Annual Meeting, Washington, D.C., 2010. (10-b- 33)
  14. Mahmoud Saffarzadeh, Yashar Zeinali, "The Role of Trade Facilitation Centers to Promote Trade and Transport Between Europe and Asia", "The International Road Federation, Istanbul, Turkey, 2008. (10-b- 32)
  15. Mahmoud Saffarzadeh, Ali Pirdavani, "Designing a Model to Identify and Prioritize Accident Black- Sports", 14th International Conference On Road Safety, Bangkok, Thailand, Nov. 2008. (10-b- 31)
  16. Mahmoud Saffarzadeh, et.,al., "Roundabout Delay Estimation with Simulation Models: Dracula, Vissim, and Sitra-b+", Third International Symposium on Transport Simulation, Gold Coast, Australia, July 2008. (10-b- 30)
  17. Mahmoud Saffarzadeh, et.,al., "Scheduling Method in Runway Operation Management for Airside Capacity Enhancement", Air Transport Research Conference, Athens, Greece, 2008. (10-b- 29)
  18. Mahmoud Saffarzadeh, Ali Abdi, "A New Approach in Runway Operations Management for Airside Capacity Enhancement", ATRS World Conference, University of California, Berkeley, June 21-23, 2007. (10-b- 28)
  19. Mahmoud Saffarzadeh, Majid Zabihi, "Development of airport Master Plan Considering Operational and Manegement Issues", Air Transport Research Conference, Abu Dhabi, June 2009. (10-b- 27)
  20. Mahmoud Saffarzadeh, Yashar zeinali, "The Importance of Effective Factors on Airport Efficiency and Level of Services", Air Transport Research Conference, Abu Dhabi, June 2009. (10-b- 26)

21. Mahmoud Saffarzadeh, Taha Fehri, "Redesigning Iran's Air Transportation System: A System Thinking Approach", Air Transport Research Conference, Abu Dhabi, June 2009. (10-b- 25)
22. Mahmoud Saffarzadeh, A.M Broujerdian, "A Route Location Model Considering High Cost Zones", The 11<sup>th</sup> World Conference on Transportation Research, University of California, Berkeley, June 24-28, 2007. (10-b- 24)
23. Mahmoud Saffarzadeh, Hamid Bahramian , "Opportunities and challenges Facing Emerging Low Cost Carriers in Iran", ' Air Transport Research Society, Nagoya, Tokyo, May, 2007. (10-b- 23)
24. Mahmoud Saffarzadeh, et. al., "Study of Effective Factors in the Performance of Urban Transportation Network In Emergency Conditions", The international Emergency Management Society, 13<sup>th</sup> Annual Conference Proceeding, Seoul, South Korea, May 23-26, 2006. (10-b- 22)
25. Mahmoud Saffarzadeh, et.al, "The Role of Accessibility Transportation Network in Rescue and Relief in Avalanche Disaster", III International "AVALANCHES AND RELATED SUBJECTS" Kirovsk, Russia September 4-8, 2006. (10-b- 21)
26. Mahmoud Saffarzadeh, Yashar Zeinali, "Trade and Transport Facilitation Between Europe and Asia", 'Sustainable Roads, Monterrey, Mexico, May, 2006. (10-b- 20)
27. Mahmoud Saffarzadeh, Hamid Bahramian , "Developing Speed Management Program for Iran ", 'Sustainable Roads Monterrey, Mexico, May, 2006. (10-b- 19)
28. Mahmoud Saffarzadeh, Hamid Bahramian, "Design of Traffic Control System for Commercial Vehicles in Freeway", the Third International SIIV Conference, Bari, Italy, September 22-24, 2005. (10-b- 18)
29. Mahmoud Saffarzadeh, et. al., "Safety Checklists to Consider in Roadwork", the 15<sup>th</sup> International Road Federation, World Meeting, Bangkok, Thailand, 14-18, June 2005. (10-b- 17)
30. Mahmoud Saffarzadeh, Bahramian, Hamid, "Budget Allocation For Road Maintenance and Improvement Projects Using HDM.4", the 15<sup>th</sup> International Road Federation, World Meeting, Bangkok, Thailand, 14-18, June 2005. (10-b- 16)
31. Mahmoud Saffarzadeh, Reza Arjroodi, "An Average Heavy Vehicle Speed Model Based on Highway Design and Traffic Flow", 10<sup>th</sup> Conference on Transport Research, Istanbul, July, 2004. (10-b- 15)
32. Mahmoud Saffarzadeh, "An Economic Model for Fuel Consumption of Road Transportation", the First International Conference on Energy and Environment, Shanghai, China, Oct. 2003. (10-b- 14)
33. Mahmoud Saffarzadeh, "An Optimum Fuel Consumption Model for the Transport of Cargos by Road Vehicles", IAEE International Conference, Prague, Czech, 2003. (10-b- 13)
34. Mahmoud Saffarzadeh, Bagher Asadi, "Development of a Land Use Noise Pollution Compatibility Model for Mehrabad International Airport", 9<sup>th</sup> International Conference on Civil Engineering, Isfahan University of Technology, May 2003. (10-b- 12)
35. Mahmoud Saffarzadeh, Ali Ghaemi, "A Mathematical and Computerized Model For Design of Airport Obstacle Free Areas", Proceedings of the Sixth International Civil Engineering Conference, Isfahan, May 2003. (10-b- 11)



36. Mahmoud Saffarzadeh, "Feasibility Study of Toll Roads Construction in Iran", Presented at the Gulf Traffic 2002, Dubai, UAE; Oct. 2002. (10-b- 10)
37. Mahmoud Saffarzadeh, Hamidreza Bahramian, "Developing Income Creating Model for Profit in the Air Transportation System", Presented at the 81<sup>th</sup> TRB Annual Meeting, Washington, D.C., 2002. (10-b- 9)
38. Mahmoud Saffarzadeh, and Javad Hedayati, "A Methodology for Feasibility Study of Toll Roads Construction", 14<sup>th</sup> Road World Congress, Paris, June 2001. (10-b- 8)
39. Mahmoud Saffarzadeh, Javad Hedayati, "Potentials and Perspectives of the North-South Transport Corridor (NOSTRAC) for the Development of Trade Between Europe and Asia, "Management and Policy Studies, International Union of Railways", Tehran, 2001. (10-b- 7)
40. Mahmoud Saffarzadeh, "Revitalizing the Ancient Silk Road The Mashad-Tajan Railway", The 6<sup>th</sup> Annual Conference on Rail Transport, Tehran, Nov., 2000. (10-b- 6)
41. Mahmoud Saffarzadeh, et. al., "Design Criteria for Safety Energy-Absorbing Highway Systems", On Safe Roads into the XXI. Century, Budapest, Hungary, 24-26 October, 2000. (10-b- 5)
42. Mahmoud Saffarzadeh, "Air Quality Impacts of Vehicle Transportation in Urban Environment" Civil and Environmental Engineering Conference, Bangkok, Thailand, Nov. 1999. (10-b- 4)
43. Mahmoud Saffarzadeh, "An Optimum Resource Allocation Model for Airport Passenger Terminals" Presented at the 8<sup>th</sup> World Conference on Transport Research, Antwerp, Belgium, July. (10-b- 3)
44. Mahmoud Saffarzadeh, "Airport Terminal Simulation Model; an Object Oriented Approach", Worldwide ECCE Symposium, Sept, 1997. (10-b- 2)
45. Mahmoud Saffarzadeh, "Traffic Flow Management & Control at Airport Terminals", Presented at the Institute of Transportation Engineering Annual Meeting, St.John, NF., Canada, July 1996.(10-b-1)

### **Master Theses Supervised:**

1. Application of Geographic Information System at the air transport industry ; mohammad reza almasi
2. A road accident model based on geometric design and ambient environment ; mehdi mokhber
3. A simulation model for the analysis and design of airport aprons ; gholamreza masomi
4. A systems approach analysis of multimodal terminals in Iran ; hossein ramezani
5. Analysis of ground based delays at the Mehrabad international airport ; esmaeil mosawi
6. Evaluation of recycled asphalt concrete in Iran ; Mohsen Zahedi
7. An optimum model for the fuel consumption of city transportation ; Abdoreza rezaei
8. Analysis of multi-modal ports in Iran ; amir ebrahimnejad
9. An intercity air transportation demand model for Iran ; mehran ghorbani
10. An optimum intercity public transportation demand model ; mohamad reza hosseinmardi
11. An impact assessment model for building towers at the urban traffic network ; ali mohammadi
12. An economic toll collection model for intercity roads ; javad hedayati

13. Evaluation of Civil Aviation Organization technical courses at the Aviation Colledge ; mostafa hoshyar
14. An equivalent road maintenance model based on Analytical Hierarchical Process ; Mohammammad reza elyasi
15. A profit making model for the air transportation industry ; hamidreza bahramian
16. Development of land use-noise compatibility model at airports ; mohamad bagher asadi
17. An over fly demand model on the basis of airport development ; kaveh varshokar
18. Development of a simulation model for the design of airport obstacle free areas: ali ghaemi
19. Determination of optimum routes for the transit of goods between Asia and Europe: mohammad ali abedian
20. A priority repair and maintenance model for highways using HDM4 ; maziar Razmavar
21. Development of a repair and maintenance model for road safety devices ; shahram farshad
22. A bridge repair and maintenance model ; behrooz karbasizadeh
23. Development of a road vehicle location finding model ; mohsen negahban
24. Development of a road safety index ;maghsood pooriari
25. Evaluation of GNSS application in the air transportation network; mohammad ramezani
26. An optimum airport site selection model; hiva joolideh
27. A rail transportation Development model for Iran; amir amini
28. Development of a model for allocating fuel subsidies to public transportation system; abdollah norozian
29. A techno-economical model to build and operate freeways and highways; amir fakhroo
30. A techno-economical model to select an optimum high speed intercity rail; samad afkar
31. An optimum route selection model based on the available materials in the corridor; amin-mirza broujerdian
32. Development of suitable public transportation system for metropolitan areas; ali malekzadehfar
33. A pavement management model at the project level based on life cycle cost; mohammad bagheri
34. Estimation of operational speed in the tangent sections of two lane highways; mohsen fallah Zavareh
35. A process oriented model for the regional architecture of intelligent transportation systems; babak mirbaha
36. A traffic accident forecasting model from earthquake in mountainous highways; mortaza asad amraji
37. A techno-economical evaluation of open sky in Iran; reza mizani
38. An optimum fuel consumption model at urban intersections; bahare rabiei
39. An accident forecasting model at the road horizontal curves; akbar azarmi
40. A techno-economical model for the pavement repair and maintenance; mehran toloie
41. A traffic forecasting model for Iranian ports; kamran najafi
42. Evaluation of air traffic control system development using CNS/ATM; ali zamani
43. A methodology to determine the pedestrian accident prone areas at the intercity roads; vahid abolhasannejad
44. A trade and transportation facilitation model among ECO and CIS; yashar zeinali
45. Evaluation of low cost air carriers operation in Iran; Taha fefri

46. Determination of hub airports to facilitate air transport in Iran; majid zabihi
47. Evaluation of road accident prone areas in Fars province; mohammad sabahi
48. A techno-economical model for the bridge repair and maintenance; elham rajabizadeh
49. Development of an algorithm for the parking site selection in the urban areas; shahram alizadeh
50. Development of an airport operational evaluation model; mohammad behzadi
51. An evaluation model to calculate the benefits of ITS application; mohamad erfani
52. A methodology to apply the ITS in the urban traffic studies; shahrokh nornei
53. A decision making model to convert the two way roads to separated highways; hojat safaienejad
54. Modal split and traffic assignment models based on fuzzy logic; saeed kerayechian
55. An optimum budget assignment model for the repair and maintenance of roads; kamran rahimi
56. A decision making model to convert intersections to interchanges; kazem ansari
57. An economic model to commercialize civil airports; pooya zanganeh
58. A dynamic fleet assignment model for the air transport demand; amir ghafghazi
59. A delay reduction model in urban network based on signal optimization; payam moienni
60. An optimum site selection model for schools based on discrete economic models; amirfarzin ghorbani
61. An airport ranking model based on utility and level of service; shahab hassanpoor
62. An optimum site selection model for the ITS devices in intercity freeways; mortaza deljoy sabeti
63. A computerized font determination model for the road signs; arash noroozi
64. An optimum route determination model based on ambient environment using GIS; ali torabi
65. Comparison of permitted speed strategies based on vehicle type and through lane in freeways using VISSIM; mostafa adresi
66. A bicycle route determination model in the urban traffic network; reza asadolahi
67. Development of traffic safety index using non accident data; navid nadimi
68. Evaluation of drivers lane change behavioral models in freeways; ghader zarinkia
69. An economic model for development of parking structures in urban areas; maryam nakhaei
70. A delay reduction model in construction zones of highways using Aimsun; mortaza salami
71. A prioritization model for safety improvement of pedestrian walkways; mostafa javani
72. Analysis of using special license plate with the drivers rule breaking; jahanshah bahramabadi
73. Development of an integrated public transportation system in medium cities; masood borghei
74. A site selection model for the road lighting system; amir khoshkar
75. Techno-Economical Evaluation Of Multilateration System in Mountainous Airport, Seyed Ramtin Bagheri
76. Development of integrated green Transportation in urban areas, Hassan Parsay
77. A mathematical model for intersection control in urban roads, Navid Noseir
78. Development of a model to determine the accident' risk in intercity roads, Bahareh Naderi
79. A methodology for low cost techniques to improve road safety, mohamad torabi

80. Design of operation model for multi-airport cities, Ehsan Shirazinia
81. A decision support system to allocate airport gates in a passenger terminals, Kaveh Kohansal
82. A route choice model for drivers in urban networks, Sina Famili
83. Demand pricing of freeway entrance ramps to increase freeway capacity, Amir Zademosa
84. Routes evaluation for dangerous good movement based on risk, Sajad Hassanpoor
85. Development of a model to calculate car ownership taxes in urban areas, Mohammad Meshkani
86. A techno-economic evaluation model for selection of multi-airport scenarios, Farhad Golestani
87. A congestion pricing model to promote using public transportation, Alireza Adibfar
88. Evaluation of Performance Based Navigation, PBN, in Iranian air transportation system, Amir Lotfi
89. Development of a highway pricing model to increase utility, Majid Mastali
90. Effectiveness of Variable message Signs based on the real time data, Shayan Salimifar
91. A location model for Pedestrian overpasses on urban streets, Mohsen Esfandiari
92. Multi-objective model for landing schedule to minimize time and cost simultaneously and addressing by innovative algorithm, Sayed Mirsajad Mokhtati Mousavi
93. Analysis of Tehran province roads capacity and level of service and providing methods to increase them, Vahid Tizpa Niazi
94. Development of techno- economic evaluation model used in ITS to improve safety (case study: Tehran- Saveh Freeway), Reza Hassan Abadi
95. The analysis of Park-and-ride demand (Case study: Tehran), Reza Mahdavi pour
96. Providing the spatial auto regression model to forecast accidents rate in intercity roads, Ali Ghasemzadeh khoshkroodi
97. Development of increasing road safety methodology and prediction of required credit for implementation methods by analyzing the accident prone locations (Case study: Accident prone locations in the northern side of Lorestan province), Sobhan Maleki Sadeghi, Summer 2013
98. Optimizing a number of electronic toll gates on highways by economic approach (Case study: Tehran- Saveh Highway), Hamed Pournali
99. Optimizing air lines network management by considering the disruption risks,
100. The possible evaluation of providing intercity travel facilities in trip interchange points by urban management prospective, Sayed Ramtin Etemadzadeh
101. Considering the impacts of information technology on managers' function in road construction project, Ali Akbar Fasai
102. Providing the evaluation model of effective parameters on intercity accidents of vulnerable road users by regional models, Sina Sahebi
103. Providing a model to Decrease the congestion of inner-city congested corridors using toll payment and route guidance. Mohammad Amin Mortazavi

104. Evaluating the effects of speed control cameras installation on speed management in rural district (Semnan transportation network). Hadi Khosravi
105. Analyzing the computability of airline companies using choosing models (The travels from Iran to countries located in Southeastern Asia). Akram Mazaheri
106. Considering the effective parameters on bus accidents in rural district using Logit. Mohammad Ebrahim Bagheri

**PhD Dissertations:**

1. A highway capacity model based on surface roughness and lighting, mohsen zahedi
2. A road safety evaluation model based on the dynamic segmentation and cause oriented prioritization; aminmirza brojerdian
3. An integrated operational planning and runway assignment model to increase airport airside capacity; ali abdi kordani
4. Development of traffic micro-simulation model for the highway safety assessment; saber naseralavi
5. An optimum model for the site selection of route guidance signs in urban road network; babak mirbaha
6. An integrated operational and design model for the public transportation system; shahab hassaninasab