# Seyedehsan Seyedabrishami

## **CONTACT INFORMATION**

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# **RESEARCH INTEREST**

Public Transportation Planning, Urban and Intercity Travel Demand Modeling, Transportation Network Analysis, Environmental Impact of Transportation, Traffic Safety Models

## **CURRENT POSITION**

Assistant Professor of Transportation Engineering

School of Civil & Environmental Engineering

Tarbiat Modares University

## **EDUCATION**

Ph.D., Transportation Planning, March 2011 Sharif University of Technology Dissertation Title: Analysis of Uncertainty in Urban Transportation Demand Estimation Model Using Fuzzy Approaches

**M.Sc.,** Transportation Planning, September 2005 Sharif University of Technology Thesis Title: *Trip Attraction Modelling Using Neural Network and Fuzzy Logic* 

**B.Sc.,** Civil Engineering, September 2003 Sharif University of Technology Thesis Title: Analysis of Non-Destructive Test (NDT), Schmidt Hammer, for Concrete Compressive Strength of Cylindrical Samples Using Neural Network

# JOURNAL PAPERS

- 1. Zarin Mehr, A., Saffarzadeh, M., **Seyedabrishami, S.,** "A local search algorithm for finding optimal transit routes configuration with elastic demand", International Transactions in Operational Research, In Press.
- 2. Zarinmehr, A., Khanzad, I., **Seyedabrishami, S.,** Saffarzadeh, M., "A Route Expansion Algorithm for Transit Routes Design: An Application to a Grid Network", Internation Journal of Transportation Engineering, In Press.
- 3. **Seyedabrishami, S.,** Mamdoohi, A.R., Fowri, H.R., "Independent and Joint Effects of Congestion Pricing and Public Transit Improvements Policies on Auto Work Trips" (in Persian), Sharif Journal of Civil Engineering, In Press.
- 4. Baghestani A.H., Mamdoohi, A.R., Mahpour, A.R., **Seyedabrishami, S.,** "Weighted Multiple Regression Analysis of Urban Work Tour-based Trips in Activity-based Framework" (in Persian), Journal of Civil and Environmental Engineering, In Press.
- 5. Tamannaei, M., Saffarzadeh, M., Jamili, A., **Seyedabrishami**, **S.**, "Simultaneous Train Rescheduling through Cancelling, Delaying, and Re-ordering Policies: Three-phase Solution Method with Guaranteed Optimality", SCIENTIA IRANICA Transaction A, In Press.
- 6. Khanzad, I., **Seyedabrishami, S.,** Mamdoohi, A.R., " A Novel Heuristic Approach for Transit Routes Design Based on Route Generation Algorithm" (in Persian), Journal of Transportation Engineering, In Press.
- 7. Zarin Mehr, A., Saffarzadeh, M., **Seyedabrishami, S.,** Nie, Y., "A path-based greedy algorithm for multi-objective transit routes design with elastic demand", Public Transport 8(2), 261-293, 2016.
- 8. Saffarzadeh, M., Mazaheri, A., Zabihi, M., **Seyedabrishami, S.,** "Analysis of Iranian passengers' behavior in choosing type of carrier in international air travel to East Asia", Journal of Air Transport Management 56, 123-130, 2016.
- 9. Nazari, F., **Seyedabrishami, S.,** Mamdoohi, A.R., "A Direct Demand Model of Departure Time and Mode for Intercity Passenger Trips", International Journal of Transportation Engineering 3(2), 125-141, 2015.
- Quchanian, M., Seyedabrishami, S., Groeger, J. A., "Identifying Psychological and Socio-Economic Factors Affecting Motorcycle Helmet Use", Accident Analysis and Prevention 85, 102-110, 2015.
- 11. Shafie, S., Nazemi, M., **Seyedabrishami**, S., "Estimating Time Dependent Origin Destination Demand from Traffic Counts: Extended Gradient Method", Transportation Letters: the International Journal of Transportation Research 7(4), 210-218, 2015.
- 12. Baghestani, A.H., Mamdoohi, A.R., **Seyedabrishami**, **S.**, "A Comparison of Aggregate and Disaggregate Mode Choice Models Transferability", International Journal of Transportation Engineering 2(2), 145-154, 2014.
- Tamannaei, M., Saffarzadeh, M., Jamili, A., Seyedabrishami, S., "A Double-Track Train Rescheduling for Incident Conditions: Optimization Model and Decomposition Method", International Journal of Operational Research 26(1), 62-87, 2016.
- Zarinmehr, A., Parvizi Omran, A., Shafahi, Y., Seyedabrishami, S., "Parallelization of Ant Colony Algorithm in Transportation Discrete Network Design" (in Persian), The Modares Journal of Civil Engineering 15(2), 37-50, 2015.

- 15. Saffarzadeh, M., **Seyedabrishami**, S., Hassanpour, S., "Route evaluation for hazardous material based on risk analysis-Case study of Tehran-Mazandaran roads" (in Persian), Journal of Transportation Engineering 7(1), 73-86, 2015.
- Qouchanian, M., Seyedabrishami, S., Fallah Zavareh, M., Broujerdian, A.M., "Analysis of Influential Factors on Motorcycle Helmet Use in Mashhad City" (in Persian), Journal of Transportation Engineering 6(2), 213-226, 2015.
- 17. Mamdoohi, A.R., **Seyedabrishami, S.,** Hosseini, S., Mahpour, A.R. "Application of Duration Model for Forecasting Shopping Activity Duration: Parametric and Non-parametric Model" (in Persian), Journal of Transportation Engineering, In Press.
- Yazdanpanah, M., Seyedabrishami, S., Quchanian, M., "Causal Model of Motorcyclist Helmet Use Behavior", International Journal of Management and Applied Science 4(1), pp. 98-108, 2015.
- Tamannaei, M., Saffarzadeh, M., Jamili, A., Seyedabrishami, S., "A Novel Train Rescheduling Approach In Double-Track Railways: Optimization Model and Solution Method Based on Simulated Annealing Algorithm", International Journal of Civil Engineering 1(14), 223-240, 2015.
- Boroujerdian, A.M., Karimi, A., Seyedabrishami, S., "Identification of Hazardous Situations using Kernel Density Estimation Method Based on Time to Collision, Case study: Left turn on Unsignalized Intersection", International Journal of Transportation Engineering 1(4), 223-240, 2014.
- 21. Saffarzadeh, M., Mirbaha, B., **Seyedabrishami**, S., "A Route Guidance Model Considering System Optimality and User Needs in Deterministic Route Choice Criteria" (in Persian), Transportation Research Journal 11(3), 279-295, 2014.
- Seyedabrishami, S., Shafahi, Y., "A Joint Model of Destination and Mode Choice for Urban Trips: A Disaggregate Approach", Transportation Planning and Technology 36(8), 703-721, 2013.
- 23. Saffarzadeh, M., Mirbaha, B., **Seyedabrishami**, **S.**, Pirdavani, A., "Evaluating the willingness to pay for urban congestion price zones (Case study of Tehran)", International Journal of Transportation Engineering 1(3), 199-210, 2013.
- 24. **Seyedabrishami, S.,** Mamdoohi, A.R., Barzegar, A., Hassanpour, S., "Impact of Carpooling on Fuel Saving in Urban Transportation: Case Study of Tehran", Procedia Social and Behavioral Sciences 54 (Elsevier), 323–331, 2012.
- 25. Ramezani, H., Shafahi, Y., **Seyedabrishami, S.**, "Fuzzy Traffic Assignment in Urban Transportation Network Based on Perceived Travel Time", SCIENTIA IRANICA Transaction A 18 (2), 190-197, 2011.
- 26. **Seyedabrishami, S.,** Shafahi, Y., "Expert Knowledge-Guided Travel Demand Estimation: Neuro-Fuzzy Approach", Journal of Intelligent Transportation Systems 15(1), 13-27, 2011.
- 27. Ramezani, H., Shafahi, Y., **Seyedabrishami, S.**, "Shortest Path Problem in Urban Transportation Network Based on Drivers' Perceived Travel Time", SCIENTIA IRANICA Transaction A 17 (4), 285-296, 2010.
- 28. Seyedabrishami, S., Karimi, A., "Statistical Tests for Publication Bias in Safety Metaanalysis: A Case Study of Urban Traffic Calming Effects" (in Persian), Journal of Transportation Engineering 3(3), 215-226, 2010.

29. Seyedabrishami, S., Saffarzadeh, M., Sahebi, S., "Evaluation of Road Safety Measures Based on Injury Crash Frequency" (in Persian), Rahvar Journal 9 (18), 85-104, 2010.

# CONFERENCE PAPERS

- 1. **Seyedabrishami, S.,** Rahimi, A., Zarinmehr, A., "Planning the Departure of Vacant Transit Vehicles to the Median Stops in a Single Line", World Conference on Transport Research (WCTR), Shanghai, China, 2016.
- 2. Mamdoohi, A.M., **Seyedabrishami, S.,** Baghestani, A.M., Mahpour, A., "A Transferability Study of Mode Choice Models in Terms of Structure and Parameters", 95th Annual Meeting Transportation Research board, January 10-14, Washington, United States, 2016.
- Tamannaei, M., Saffarzadeh, M., Jamili, A., Seyedabrishami, S., Bagheri, R., "Proposing a New Train Rescheduling Approach with Simultaneous Consideration of Cancelling, Delaying and Re-Ordering Policies". 94th Annual Meeting Transportation Research board, January 11-15, Washington, United States, 2015.
- 4. **Seyedabrishami, S.**, Mamdoohi, A.M., Khanzad, I., "A Heuristic Expansion of Route Generation Algorithm for Transit Network Design", 18<sup>th</sup> Euro Working Group on Transport (EWGT), 14-16 July, Delft, Netherlands, 2015.
- Seyedabrishami, S., Mamdoohi, A.M., Baghestani, A.H., "A Transferability Study of Mode Choice Models in Terms of Structure and Parameters", 14<sup>th</sup> International Conference on Travel Behaviour Research (IATBR), July 19-23, Leeds, U.K., 2015.
- Seyedabrishami, S., Nazemi, M., Shaffie, S., "Off-line Calibration of a Macroscopic Dynamic Traffic Assignment Model: Iterative Demand-Supply Parameters Estimation", IEEE 17th International Conference on Intelligent Transportation Systems (ITSC) October 8-11, Qingdao, China, 2014.
- 7. **Seyedabrishami, S.,** Saffarzadeh, M., Sahebi, S., "Identify Factors Influence Injury Severity of Pedestrians in Rural Crashes", Road Safety & Simulation Conference, October 23-25, Rome, Italy, 2013.
- 8. **Seyedabrishami, S.,** Sahebi, S., Qorbani, M.R., "Examination the Influence of Drugged Driving on Driver Injury Severity in Rural Crashes", Road Safety & Simulation Conference, October 23-25, Rome, Italy, 2013.
- Seyedabrishami, S., Saffarzadeh, M., Khosravi, H., "Effectiveness of Speed Camera in Rural Roads: A before-after Study (Case Study: Semnan City) ", 12<sup>th</sup> Iranian Traffic and Transportation Engineering Conference, April 2012
- Seyedabrishami, S., Mirbaha, B., Sherafatipour, S., "Willingness-to-pay of Private Car Users for Entering Congestion Pricing Zone (Case Study: Tehran CBD) ", 12<sup>th</sup> Iranian Traffic and Transportation Engineering Conference, April 2012
- Seyedabrishami, S., Saffarzadeh, M., and Mirbaha, B., "A Route Guidance Model Based on System Optimality Level and Deterministic Route Choice Behavior", 1<sup>st</sup> Symposium on Quantitative Method in Transportation (LATSIS), September 3-7, Lausanne, Switzerland, 2012.
- 12. **Seyedabrishami, S.,** Mamdoohi, A.R., Barzegar, A., Hassanpour, S., "Impact of Carpooling on fuel saving in Urban Transportation: Case Study of Tehran", 15<sup>th</sup> EWGT, September 10-13, Paris, France, 2012.

- 13. **Seyedabrishami, S.,** Nadafian, R., "Environmental Impact Assessment of New Transportation Infrastructure Using Combined Weighted Method, Case Study: SHUSH Highway", 11<sup>th</sup> Iranian Traffic and Transportation Engineering Conference, Tehran, Iran, 2011.
- 14. **Seyedabrishami, S.,** Shafahi, Y., "A Joint Model of Destination and Mode Choice for Urban Trips: A Disaggregate Approach", 12<sup>th</sup> WCTR, July 11-15, Lisbon, Portugal, 2010.
- 15. **Seyedabrishami, S.,** Reza Faturehchi, Edris Yargholi, Ahmad Salari, "Application of Linear Programming for Locating Traffic Counter in Rural Roads" (in Persian), 9<sup>th</sup> Iranian Traffic and Transportation Engineering Conference, Tehran, Iran, 2009 (The best contributed paper at traffic engineering section)
- 16. **Seyedabrishami, S.,** Nourbakhsh, S.M., Shafahi, Y., "Fuzzy Trip Distribution Models for Discretionary Trips", 11<sup>th</sup> International IEEE ITS Conference, Beijing, China, October 2008.
- 17. **Seyedabrishami, S.,** Fallah, M., Saffarzadeh, M., "A New Speed Enforcement Guide Using Handheld Laser Gun in Rural Roads" (in Persian), Police University, Tehran, Iran, 2007.
- Seyedabrishami, S., Sadat Hosseini, S.M., Rashidi, "Finding the Best Position for Installing Intelligent Speed Control Devices", 14<sup>th</sup> World ITS congress, Aalborg, Sweden, 2007.
- 19. Seyedabrishami, S., Shafahi, Y., "School Trip Production Modeling Using Improved Adaptive-Network-Based Fuzzy Inference System", 9<sup>th</sup> International IEEE ITS Conference, Toronto, Canada, 2006.
- 20. **Seyedabrishami, S.,** Shafahi, Y., "Fuzzy-Neural Network Modeling for Compulsory and Non-Compulsory Trip Production in Large Cities" (in Persian), 7<sup>th</sup> International Conference on Civil Engineering, Iran, 2006.
- 21. **Seyedabrishami, S.,** Shafahi, Y., "School Trip Attraction Modeling Using Neural & Fuzzy-Neural Approaches", 8<sup>th</sup> International IEEE ITS Conference, Vienna, Austria, 2005.
- 22. **Seyedabrishami, S.,** Shafahi, Y., "Improving Generalization Capability of Neuro-Fuzzy Modeling for School Trip Production Using Parallel Estimation and Fuzzy Clustering" (in Persian), 7<sup>th</sup> Conference on Intelligent Systems, Tehran, Iran, 2005.
- 23. **Seyedabrishami, S.,** Fallah, M., "Application of Concordance Analysis for Economical Analysis of New Transportation Infrastructure" (in Persian), 8<sup>th</sup> Iranian Traffic and Transportation Engineering Conference, Tehran, Iran, 2005. (The best contributed paper at transportation economic section)

## **TEACHING EXPERIENCES**

Tarbiat Modares University, Tehran, IranSeptember 2010-PresentSchool of Civil & Environmental EngineeringSitember 2010-PresentSchool of Civil & Environmental EngineeringSitember 2010-PresentTitle: Assistant ProfessorGraduate Courses:Graduate Courses:Transportation Project Evaluation,Transportation Simulation,Traffic Safety Models,Advanced Engineering Mathematics I,Advanced Engineering Mathematics II(Only for PhD Students),Advanced Transportation Modelling(Only for PhD Students)January 2013-present

School of Arts		
Title: Assistant Professor		
Graduate Courses:		
Urban Transportation Planning,		
Regional Transportation Planning,		
Urban Network Design		
Iran National University (Shahid Beheshti), Tehran, Iran	September 2010-January 2011	
School of Architecture & Urban Planning		
Title: Adjunct Faculty		
Graduate Courses:		
Urban Transportation Planning,		
Regional Transportation Planning		
Payam Noor University, Dubai, United Arab	January 2007-January 2009	
Emirates January 2007-January 2009		
School of Management Science		
Title: Adjunct Faculty		
Undergraduate Course:		
Operation Research I		
Graduate Courses:		
Operation Research II,		
Quantitative Decision Making,		
Advanced Statistical Analysis		
Sharif University of Technology, Tehran, Iran	September 2004- September 2010	
Faculty of Civil Engineering,	September 2004- September 2010	
Title: Teaching & Research Assistant		
Graduate Courses:		
Transportation Simulation,		
Advanced Engineering Mathematics		
Railway Engineering,		
Airport Planning & Design		

#### STUDENT SUPERVISION EXPERIENCES

September 2010-Present

**Tarbiat Modares University, Tehran, Iran** School of Civil & Environmental Engineering

#### Master's Supervision (14 Students: 10 Graduate, 4 Ongoing):

- 1. Dynamic Traffic Assignment Using Macroscopic Simulation Model: A Case Study of Mashad, 2010-2011.
- 2. Impact of Congestion Pricing on Transit Performance Using Stated Preference Survey: A Case Study of Tehran, 2011-2013
- 3. Analysis of Motorcycle Helmet Use Behaviour in Iran, 2011-2013
- 4. Impact of Flexible Work and School Schedule on Traffic Congestion Using Dynamic Assignment Models, 2011-2013
- 5. Nested Logit Models to Forecast Integrated Intercity Travel Demand in Iran, 2011-2013

- 6. Impacts of Low Cost Carrier Growth on Passengers' Airline Choices: A Case Study of Iran Travels to Southeast Asia, 2011-2013
- 7. Spatial Stability of Mode Choice Models Comparing Multiple Mode Choice Models in Several Comprehensive Transportation Studies, 2011-2013
- 8. A Heuristic Method in Transit Network Design in Metropolitan, 2012-2014
- Impact of Congestion Pricing on Transit Share Using a Combination of RP/SP Data, 2012-2014
- 10. Scheduling of Deadheading Transit Departures to Cover Travel Demand at Crowded Bus Stops, 2012-2014
- Impact Assessment of Transit Travel Time Reliability on Passengers' Mode Choice, 2013-2015
- 12. Transit Network Design and Frequency Setting Using Ant Colony Algorithm, 2012-2015
- 13. Impact of Transit Fare Policies on Share of Transit Mode, Case Study: BRT in Tehran, 2013-2015
- 14. Analysis of Parameters Influence on Fuel Choice Behaviour of Drivers, 2013-2016

#### PhD Supervision & Co-supervision (4 Students: 1 Graduate and 3 Ongoing):

- 1. Analysis of Passenger Itinerary Choice Behaviour in Iran Using a Stated Preference Survey, 2010-2015
- 2. Evaluation of Financial Policies Impacts on Urban Traffic Management, 2013-present
- 3. Transit Network Design and Frequency Setting Considering Demand Elasticity, 2011-2016
- 4. Train Rescheduling Method for Double Track Network Using Optimization Model, 2011-2014.

## CONSULTANCY PROJECTS

## Tarbiat Modares University Tehran, Iran

Title: Director

- 1. Bus Rapid Transit Network Design in Yazd (A City in Iran), Title: Director, September 2011-2012
- 2. Evaluation of Financial Policies in Urban Traffic Management in Tehran Metropolitan, Title: Director, 2014-present
- 3. Short Time Prediction of Bus Station Demand, 2014-present
- 4. Rural Forecasting Traffic Status Model Using Data Collected by ITS Systems, 2016-present

Title: Associate Director

5. Comprehensive Transportation Study in Mashad (The second most populous city in Iran), September 2012-present

## Sharif University of Technology Tehran, Iran

Title: Main Researcher

- 1. Application of count data regression model for estimating appropriate number of telecommuting days for employees
- 2. Travel demand modeling using adaptive-network-based fuzzy inference system

- 3. Introduction to p-median problems in transportation engineering and their solution methods
- 4. Application of stochastic dynamic knapsack problem in traffic assignment

Title: Research Assistant

5. SHIRAZ (a large city in Iran) Comprehensive Transportation Study

#### **INDUSTRY EXPERIENCES**

#### Tehran Comprehensive Transportation & Traffic Studies Co.

- Consultant, November 2013- present
  - Developing Tehran activity-base model

#### Tarahan Parseh, Transportation Research Institute Tehran, Iran

- Consultant, August 2010- present (http://www.parsehtri.com/About%20us-Colleagues-9-en.html)
  - Impact Study of Different Scenarios of Congestion Pricing in Tehran (Capital of Iran)
  - Rate of Motor Vehicle Tax in Tehran Metropolitan
  - Comprehensive Transportation Study of Tehran Rural Roads

#### Rah Shahr International Group, Multi-Disciplinary Engineering Tehran, Iran

- Consultant, September 2010- present
  - Employee Parking Demand Forecasting in Tehran Metropolitan

# ARG Transportation Engineering Consultants Tehran, Iran

- Research Manager, September 2007- September 2009
  - Developing a model for setting speed limits within speed zones
  - Traffic Counting Program for Rural Roads
  - Speed Enforcement Camera Located in Iran Roads
- Equipment Section Manager, April 2006- September 2007
  - Ceramic Road Stud
  - Traffic Analyzers (Quixote Company branch in Dubai)
  - Tunnel Lighting (Nu Art Lighting)

#### KIA Transportation Engineering Consultants Tehran, Iran

- Research Associate, August 2004- September 2006
  - Hazardous Material Transportation: Routing and Guidelines
  - Speed Management Guidelines in Iran

#### TECHNICAL REPORTS

**Seyedehsan Seyedabrishami**, Saeid Sherafatipour, Babak Mirbaha, "Analysis of Travelers' Mode Shift with Congestion Pricing in Tehran Central Business District", Tarahan Parsah Transportation Research Institute, Client: Tehran Municipality, 2012.

**Seyedehsan Seyedabrishami**, Farshid Fariborzi, "A Guide for Duties of SOS Centers in Rural Roads", KIA Consulting Company, Client: Iran Ministry of Road and Transportation, 2008

**Seyedehsan Seyedabrishami**, Mohsen Fallah, Gholamreza Masumi, "Guidebook for Application of Intelligent Speed Control Systems in Rural Roads", ARG Consulting Company, Client: Iran Road Transportation and Maintenance Organization, 2008

**Seyedehsan Seyedabrishami**, Reza Faturechi, "Study on Estimation Methods of Travel Time in Urban Arterials" (in Persian), ARG Consulting Company, Client: Tehran Municipality, 2008

**Seyedehsan Seyedabrishami**, Edris Yargholi, "Traffic Monitoring Guide for Iran Rural Roads" (in Persian), ARG Consulting Company, Client: Iran Road Transportation and Maintenance Organization, 2008

**Seyedehsan Seyedabrishami**, Babak Mirbaha, Farshid Fariborzi, Vahid Abolhassannejad, "Guidelines for Transportation of Dangerous Goods" (in Persian), KIA Consulting Company, Client: Iran Ministry of Road and Transportation, 2007

**Seyedehsan Seyedabrishami**, Mohsen Fallah, Gholamreza Masumi, "Parameters Influencing Zonal Speed Limit in Iran Rural Roads", ARG Consulting Company, Client: Iran Ministry of Road and Transportation, 2007

**Seyedehsan Seyedabrishami**, Seyedmahmoud Dibaj, "Rural Road Safety Program for Motorcycles" (in Persian), ARG Consulting Company, Client: Iran Ministry of Road and Transportation, 2006

**Seyedehsan Seyedabrishami**, Sroush Amraji, Ahmad Salari, "Design of an Intelligent Transportation System (ITS) Architecture for Karaj-Chalus Road in Iran" (in Persian), ARG Consulting Company, Client: Iran Ministry of Road and Transportation, 2006

Seyedehsan Seyedabrishami, Mohsen Fallah, Gholamreza Masumi, "Speed Management Guidelines in Iran Rural Roads" (in Persian), ARG Consulting Company, Client: Iran Ministry of Road and Transportation, 2005

## PROFESSIONAL ACTIVITIES AND POSITIONS

- Visiting Scholar
  - o University of New South Wales, Sydney, Australia, March 2015
- Conference Organizer
  - 13<sup>th</sup> World Conference on Transport Research Society (WCTR), Conference Organizer of WCTR Young Researchers, Rio, Brazil, July 2013
  - 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup> International Conference on Traffic & Transportation Engineering, Tehran, Iran, February 2011, 2012, 2013, 2014
- Journal Referee

- Journal of IEEE Transactions on Intelligent Transportation Systems, August 2008-present
- o Journal of Transportation Letters, May 2014-present
- o The Modares Journal of Civil Engineering (in Persian), September 2010-present
- o Transportation Engineering Journal (in Persian), January 2010- present
- $\circ \quad \text{International Journal of Transportation Engineering, September 2012-present}$