

Curriculum vitae

Dr. Mohammad Tamannaeei

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Personal Info

Associate Professor
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Research Interests

- Optimization Applications in Transportation
- Game Theory Applications in Transportation
- Policy Making in Transportation
- Transportation Network Design
- Intelligent Railway Transportation
- Sustainable Transportation

Educational Background

- **Ph.D. in Road & Transportation Engineering** at Tarbiat Modares University, Tehran, Iran (2011-2015)
PhD Thesis: Train Rescheduling in Double-Track Railways
Score: Excellent (19.5/20)
- **Master in Road & Transportation Engineering** at Isfahan University of Technology (2008-2011)
MSc Thesis: Analysis of Macroscopic Parameters of Traffic Flow and Driver Behaviors in Basic Urban Multilane Highway Segment (Case Study: Kharrazi Multilane-Highway in Isfahan), Score: Excellent (20/20)
- **Bachelor in Civil Engineering (Structural Engineering)** at Isfahan University of Technology (2004-2008)

Selected Journal Publications

- Rategh Y., **Tamannaeei M.**, Zarei H. (2022), A Game-Theoretic Approach to an Oligopolistic Transportation Market: Coopetition Between Incumbent Systems Subject to the Entrance Threat of an HSR Service. *Transportation Research Part A: Policy and Practice*, Vol. 165, pp. 144-171. [Link](#) [Download](#)
- Taheri S., **Tamannaeei M.** (2022), Integrated Multi-Level Intermodal Network Design Problem: A Sustainable Approach, Based on Competition of Rail and Road Transportation Systems. *Networks and Spatial Economics*, Vol. 22, pp. 1-37. [Link](#) [Download](#)
- Habibollahi M.A., **Tamannaeei M.**, Falsafain H. (2022), Locomotive Assignment Problem with Consideration of Infrastructure and Freight Train Constraints: Mathematical Programming Model and Metaheuristic Solution Approaches. *Computers and Industrial Engineering*, Vol. 172, 108625. [Link](#) [Download](#)
- **Tamannaeei M.**, Zarei H., Rasti-Barzoki M. (2021), A Game-Theoretic Approach to Sustainable Freight Transportation: Competition between Road and Intermodal Road–Rail Systems with Government Intervention. *Transportation Research Part B: Methodological*, Vol. 153, pp. 272-295. [Link](#) [Download](#)
- Aminzadegan S., **Tamannaeei M.**, Fazeli M. (2021), An Integrated Production and Transportation Scheduling Problem with Order Acceptance and Resource Allocation Decisions. *Applied Soft Computing*, Vol. 112, 107770. [Link](#) [Download](#)
- **Tamannaeei M.**, Zarei H., Aminzadegan S. (2021), A Game-Theoretic Approach to the Freight Transportation Pricing Problem in the Presence of Intermodal Service Providers in a Competitive Market. *Networks and Spatial Economics*, Vol. 21 (1), pp. 123-173. [Link](#) [Download](#)

- Tavassoli K., **Tamannaei M.** (2020), Hub network design for integrated Bike-and-Ride services: A competitive approach to reducing automobile dependence. *Journal of Cleaner Production*, Vol. 248, 119247. [Link](#) [Download](#)
- Falsafain H., **Tamannaei M.** (2020), A Novel Dynamic Programming Approach to the Train Marshalling Problem. *IEEE Transactions on Intelligent Transportation Systems*, Vol. 21 (2), pp. 701-710. [Link](#) [Download](#)
- Aminzadegan S., **Tamannaei M.**, Rasti-Barzoki M. (2019), Multi-Agent Supply Chain Scheduling Problem by Considering Resource Allocation and Transportation. *Computers and Industrial Engineering*, Vol. 137, 106003. [Link](#) [Download](#)
- **Tamannaei M.**, Rasti-Barzoki M. (2019), Mathematical programming and solution approaches for minimizing tardiness and transportation costs in the supply chain scheduling problem. *Computers and Industrial Engineering*, Vol. 127, pp. 643-656. [Link](#) [Download](#)
- **Tamannaei M.**, Irandoost I. (2019), Carpooling Problem: A New Mathematical Model, Branch-and-Bound, and Heuristic Beam Search Algorithm. *Journal of Intelligent Transportation Systems*, Vol. 23 (3), pp. 203-215. [Link](#) [Download](#)
- **Tamannaei M.**, Saffarzadeh M., Jamili A., Seyedabrishami S. (2017), Simultaneous Train Rescheduling Through Cancelling, Delaying, and Re-Ordering Policies: Three-Phase Solution Method with Guaranteed Optimality. *Scientia*, Vol. 24 (1), pp. 121-135. [Link](#) [Download](#)
- **Tamannaei M.**, Saffarzadeh M., Jamili A., Seyedabrishami S. (2016), A novel train rescheduling approach in double-track railways: optimization model and solution method based on simulated annealing algorithm. *International Journal of Civil Engineering*, Vol. 14(3), pp. 139–150. [Link](#) [Download](#)
- **Tamannaei M.**, Saffarzadeh M., Jamili A., Seyedabrishami S. (2016), A Double-Track Train Rescheduling for Incident Conditions: Optimization Model and Decomposition Method. *International Journal of Operational Research*, Vol. 26 (1), pp. 62-87. [Link](#) [Download](#)
- Abtahi S.M., **Tamannaei M.**, Haghshenash H. (2011), Analysis and Modeling Time Headway Distributions under Heavy Traffic Flow Conditions in the Urban Highways (Case of Isfahan). *Transport*, Vol. 26 (4), pp. 375-382. [Link](#) [Download](#)

Other Journal Publications

- Salehi E., Allafeepour A., **Tamannaei M.**, Tavassoli K. (2022), Analysis of competition between maritime and multimodal land-sea shipping in an international freight transportation market. *Amirkabir Journal of Civil Engineering*, Vol. 6 (1), pp. 1-34. [Link](#) [Download](#)
- Chamani Foomani Dana A., **Tamannaei M.** (2021), A Game-Theoretic Approach for Transportation of Oil Products in a Duopolistic Supply Chain. *Amirkabir Journal of Civil Engineering*, Vol. 5 (1), pp. 1-14. [Link](#) [Download](#)
- Chamani Foomani Dana A., **Tamannaei M.** (2020), Railway Pricing Problem: The Effects of Monetary Decision-Making on a Duopolistic Freight Transportation Market, *International Journal of Railway Research*, Vol. 7 (2), pp.45-50. [Link](#) [Download](#)
- **Tamannaei M.**, Fazeli M., Chamani Foomani A., Mansourianfar H. (2019), Transit Signal Priority: Proposing a Novel Algorithm to Decrease Delay and Environmental Impacts in BRT Route Intersections. *International Journal of Transportation Engineering*, Vol. 7 (2), pp. 153-169. [Link](#) [Download](#)
- Dehshiri Parizi M.H., **Tamannaei M.**, Haghshenas H. (2018), Evaluation of Friction Demand Factor in Loop Ramps of Interchange Facilities. *Amirkabir Journal of Civil Engineering*, Vol. 2 (2), pp. 195-208. [Link](#) [Download](#)
- Shafipur M., **Tamannaei M.**, Abtahi S.M. (2018), A Methodology to Prioritize the Construction Projects of New Railway Infrastructures for Privatization in Railway Networks (Case Study: Iran). *International Journal of Transportation Engineering*, Vol. 6 (2), pp. 123-143. [Link](#) [Download](#)

- Khosravi A., **Tamannaeci M.**, Reisi-Nafchi M. (2017), A Comprehensive Approach for Railway Crew Scheduling Problem (Case Study: Iranian Railway Network). *International Journal of Transportation Engineering*, Vol. 4 (3), pp. 197-210. [Link](#) [Download](#)
- Khosravi A., **Tamannaeci M.** (2017), Two Mathematical Models for Railway Crew Scheduling Problem. *International Journal of Railway Research*, Vol. 4 (2), pp. 11-24. [Link](#) [Download](#)
- Shafipur M., **Tamannaeci M.**, Haghshenas H., Tahmasebi B. (2016), Two Comprehensive Strategies to Prioritize the Capacity Improvement Solutions in Railway Networks (Case Study: Iran). *International Journal of Railway Research*, Vol. 3 (1), pp.9-18. [Link](#) [Download](#)
- **Tamannaeci M.**, Rasti-Barzoki M. (2019), A Game-Theoretic Approach for Modeling the Competition in Freight Railway and Roadway Transportation Market (in Persian). *Journal of Transportation Research* (ISSN: 2008-3351), Vol. 16 (1), pp. 1-20. [Link](#) [Download](#)
- **Tamannaeci M.**, Vali M.H. (2018), An Algorithm for Optimally Removing Network Bottlenecks to Justify the Electrification of the Railway Corridors, Case Study: Railway Corridor at North of Iran (in Persian). *Modares Civil Engineering Journal* (ISSN: 2476-6763), Vol. 18 (2), pp. 37-49. [Link](#) [Download](#)
- Shafiepour M., **Tamannaeci M.**, Abtahi S.M. (2018), Proposing a new approach to identify and resolve capacity bottlenecks in railway networks (Case Study: Iranian Railway Network) (in Persian). *Journal of Transportation Engineering* (ISSN: 2008-6598), Vol. 9 (3), pp. 377-392. [Link](#) [Download](#)
- Saffarzadeh M., **Tamannaeci M.**, Seyedabrishami S. (2014), Train Timetabling Problem: Branch and Bound Algorithm and heuristic Beam Search Algorithms, Case Study: Double Track Railways in Iran (in Persian). *Journal of Transportation Engineering* (ISSN: 2008-6598), Vol. 6 (1), pp. 99-116. [Link](#) [Download](#)
- Saffarzadeh M., Yaghini M., **Tamannaeci M.** (2013), Developing A New Train Scheduling Model Considering the Special Constraints of the Single-Track Corridors for Iran Railways, (in Persian). *Journal of Transportation Engineering* (ISSN: 2008-6598), Vol. 4 (2), pp. 151-166. [Link](#) [Download](#)
- **Tamannaeci M.**, Abtahi S.M., Haghshenas H. (2012), Analysis of the Time Headway Distributions under Day and Night Conditions in Heavy Traffic Flow (in Persian). *Journal of Transportation Research* (ISSN: 2008-3351), Vol. 9 (2), pp. 101-114. [Link](#) [Download](#)
- Yaghini M., Nikoo N. **Tamannaeci M.** (2012), Investigation of The Solutions for Railway Capacity Promotion by Using an Optimization Method (A Case Study: Badrood-Ardakan Railway) (in Persian). *Journal of Transportation Engineering* (ISSN: 2008-6598), Vol. 3 (2), pp. 159-173. [Link](#) [Download](#)
- Abtahi S.M., **Tamannaeci M.**, Kermanshahi, Sh. (2010), Capacity Analysis of the Basic Multi-Lane Highway Segments (A case study for Shahid Kharrazi multi-lane highway in Isfahan) (in Persian). *Journal of Transportation Research* (ISSN: 2008-3351), Vol. 7 (3), pp. 205-214. [Link](#) [Download](#)

International & National Conference Publications

- Chamani Foomani Dana A., Haghshenas H., **Tamannaeci M.** (2020), Application of Surrogate Safety Measures for Safe Signal Timing in Urban Intersections, 18th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Download](#)
- Chamani Foomani Dana A., **Tamannaeci M.** (2019), Railway Pricing Problem: The Effects of Monetary Decision-Making on a Duopolistic Freight Transportation Market, 6th International Conference on Recent Advances in Railway Engineering, Tehran, Iran. [Download](#)
- **Tamannaeci M.**, Kalantari H. (2016), Disruption Management in Double-Track Railways Using a Novel Train Rescheduling Model, 15th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Download](#)

- **Tamannaei M.**, Saffarzadeh M., Jamili A., Seyedabrishami S.E., Bagheri R. (2015), Proposing a New Train Rescheduling Approach with Simultaneous Consideration of Cancelling, Delaying and Re-Ordering Policies, 94th Annual Meeting, Transportation Research Board (TRB), Washington, USA. [Link](#) [Download](#)
- Abtahi S.M., **Tamannaei M.**, Kermanshahi Sh., Abrishamkar A. (2011), Determination of Highway Capacity Based On Time Headway Analysis Case Study: Isfahan Highways, International Conference on Traffic and Transportation Engineering (ICTTE), Dubai, UAE. [Download](#)
- Mehranfar F., **Tamannaei M.**, Javadi R., Kalantari H. (2021), Evaluating the Priority of Different OD Pairs in a Transportation Network to Occupy the Capacity of Rail Corridors, Case Study of Iranian Rail Network (in Persian), 7th International Conference on Recent Advances in Railway Engineering, Tehran, Iran. [Download](#)
- Rategh Y., **Tamannaei M.** (2021), An Optimization Approach for Locomotive Scheduling Problem with Consideration of the Special Situations of Iranian Railway Network (in Persian), 4th Annual Congress of Civil Engineering, Architecture and Urban Planning Technology Infrastructure Development of Iran, Tehran, Iran. [Download](#)
- Habibollahi M.A., **Tamannaei M.**, Falsafain H. (2021), An Optimization Approach for Locomotive Scheduling Problem with Consideration of the Special Situations of Iranian Railway Network (in Persian), 7th International Conference on Mechanical, Construction, Industrial and Civil Engineering, Tehran, Iran. [Download](#)
- **Tamannaei M.**, Shafiepour M., Abtahi S.M. (2018) A Method to Promote Green Transportation Share for Achieving Sustainable Development (Case Study: Freight Transportation in Iranian Railway Network) (in Persian), 17th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link](#) [Download](#)
- **Tamannaei M.**, Dehshiri M.H. (2017) Role Analysis of Transfer from Road to Rail Freight Transportation System in Resistive Economics (in Persian), 1st National Conference on Road and Transportation, Gilan University, Iran. [Link](#) [Download](#)
- Vali M.H., **Tamannaei M.**, Shafiepour M. (2017) Is the Electrification Considered as an Appropriate Solution to Increase the Capacity of the Railway Corridors in North of Iran? (in Persian), 1st National Conference on Road and Transportation, Gilan University, Iran. [Link](#) [Download](#)
- Dehshiri M.H., Haghshenas H., **Tamannaei M.** (2017) The required friction factor for safe movement of vehicles in loop ramps: Comparison of Iranian Manual with Simulation Software (Case Study: Shahid Tayyareh Loop, Isfahan) (in Persian), 16th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link](#) [Download](#)
- Khosravi A., **Tamannaei M.**, Kalantari H. (2017) Analysis of Railway Crew Scheduling Problem in a Comprehensive Approach with a Mathematical Model to Reduce the Number of Crew Transfers (Case Study: Iranian Railway Network) (in Persian), 5th International Conference on Recent Advances in Railway Engineering, Tehran, Iran. [Link](#) [Download](#)
- **Tamannaei M.**, Abtahi S.M., Shafiepour M. (2017) Is the Construction of New Infrastructures the Best Way to Increase the Rail Freight Absorption? (in Persian), 5th International Conference on Recent Advances in Railway Engineering, Tehran, Iran. [Link](#) [Download](#)
- Shafiepour M., **Tamannaei M.**, Haghshenas H. (2017) Determining the Optimal Solutions for Capacity Increase in Central Corridors of Iranian Railway Network (in Persian), 5th International Conference on Recent Advances in Railway Engineering, Tehran, Iran. [Link](#) [Download](#)
- **Tamannaei M.**, Saffarzadeh M. (2016) Management of Delay Propagation in Train Timetables after Occurrence of Railway Incidents: Developing a Mathematical Model and Exact Solution Method (in Persian), 15th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link](#) [Download](#)
- Shafiepour M., **Tamannaei M.**, Komeili S.A. (2015) Investigation of Appropriate Scenarios to Remove the Bottlenecks of Iranian Railway Network (in Persian), 3rd International Congress on Civil Engineering, Architecture and Urban Development, Shahid Beheshti University, Tehran, Iran. [Link](#) [Download](#)

- **Tamannaei M.**, Haghshenas H., Kalantari H., Azari Kh. (2015) Development of an Appropriate Method for Capacity Evaluation in Iranian Railway Network (in Persian), 14th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link Download](#)
- **Tamannaei M.**, Saffarzadeh M., Kalantari H. (2013) The investigation of the appropriate solutions for increasing the capacity of the bottlenecks in Iranian railway network (in Persian), 12th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link Download](#)
- **Tamannaei M.**, Haghshenas H., Rezaee H. (2012) A Feasibility Study to Apply Two-Seat Small Vehicles for Transportation in Governmental Organizations, A Case Study of Isfahan Municipality (in Persian), 11th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link Download](#)
- Abtahi S.E., **Tamannaei M.**, Hejazi S.A., Karami A., Abrishamkar A. (2010) Vehicle Safety Analysis Through Tailgating Process, A Case Study of Kharrazi Freeway in Isfahan (in Persian), 10th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link Download](#)
- Abtahi S.M., **Tamannaei M.**, Karami A. (2009) Presenting a Methodology to Evaluate the Pavement Impacts on the Capacity of Highways under Uninterrupted Traffic Facilities (in Persian), 9th International Conference on Traffic and Transportation Engineering, Tehran, Iran. [Link Download](#)

Sponsored Research Projects

- (National) Optimal Design of Iranian Railway Transportation Network According to the Demand Satisfaction and Development Requirements for the Next 20-year Horizon (A part of the Iranian Comprehensive Transportation Studies), Sponsor: Iran Ministry of Road and Urban Development, PI: Dr. Mohammad Tamannaei. (2020 – Present)
- (Private Sector) Cooperation and Presentation of Scientific Consulting with respect to Dispatch Planning, Transportation Efficiency and Education of Employer's Staffs and Related Affairs upon the Request of the Employer, Sponsor: Behtash Sepahan Railway Transportation Company, PI: Dr. Mohammad Tamannaei. (2018 – Present)
- (National) Optimal Transportation of Oil Products by Considering Road, Rail, Pipeline and Maritime modes, and daily delivery of demands to the customers, Sponsor: National Iranian Oil Products Distribution Company (NIOPDC), PI: Dr. Mohammad Tamannaei. (2019 – Present)
- (National) Analysis of Freight Demand and Capacity of Railway Corridors in Iran Network, Sponsor: The Islamic Republic of Iran Railways Company, PIs: Dr. Mohammad Tamannaei, Dr. Hosein Haghshenas. (2013 - 2016)
- (National) Investigating the Privatization Requirements for Construction of Infrastructures in Iranian Railway Network, Sponsor: The Islamic Republic of Iran Railways Company, PI: Dr. Mohammad Tamannaei. (2015 – 2016)
- (National) Crew Scheduling Problem in Railway System (Case Study: Iranian Railway Network), Sponsor: The Islamic Republic of Iran Railways Company, PI: Dr. Mohammad Tamannaei. (2015 – 2016)
- (National) Determination of Appropriate Solutions for Capacity Increase in Bottlenecks of Iranian Railways, Sponsor: The Islamic Republic of Iran Railways Company, PI: Dr. Mohammad Tamannaei. (2011 – 2012)
- (Urban) Signalization Retiming at Urban Intersections for Transit Priority, Case Study: Route 1 of BRT System in Isfahan City, Sponsor: Municipality of Isfahan, PI: Dr. Mohammad Tamannaei. (2016 – 2017)
- (Urban) Level-Of-Service Analysis at Signalized Intersections with Actuated Timing in Isfahan City, Sponsor: Municipality of Isfahan, PI: Dr. Mohammad Tamannaei. (2016 – 2017)

Teaching Experience

- Operations Research (Since 2015)
- Railway Transportation (Since 2015)
- Advanced Road Geometric Design (Since 2015)
- Transportation Systems Analysis (Since 2016)
- Freight Transportation (Since 2019)
- Advanced Traffic Engineering (Since 2012)

Supervision for Theses

- Mr. Hamid Reza Shams, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Competition between Rail and Road Transportation Systems in a Duopoly Market under the Carbon Cap-and-Trade Regulation, Supervisors: Dr. Mohammad Tamannaeei. (2019-2022)
- Mrs. Leyla Shirazi, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Analysis of the potential of international freight transport and transit passing through Iran and Neighboring countries in order to improve the utilization of transit capacity, Supervisors: Dr. Mohammad Tamannaeei, Dr. Alireza Sahebgharani. (2019-2022)
- Mrs. Zahra Dashti, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: A Game Theoretic Approach to Competition between Vehicle Manufacturers: Optimal Policy-Making for Sustainable Development to Extend the Electric Vehicles Market, Supervisors: Dr. Mohammad Tamannaeei. (2019-2022)
- Mr. Mohammad Ali Habibollahi, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: The Optimal Locomotive Assignment to Freight Trips in Iranian Rail Network, Supervisors: Dr. Mohammad Tamannaeei, Dr. Hosein Falsafain. (2018-2021)
- Mrs. Yalda Rategh, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: A Game-theoretic Approach to Investigating Competition of Passenger Transportation Modes in an Oligopolistic Market, Supervisor: Dr. Mohammad Tamannaeei. (2018-2021)
- Mr. Amir Hosein Allafipour, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Optimal Transportation of Oil Products by Considering Road, Rail, Pipeline and Maritime Modes, and Daily Delivery of Demands to the Customers, Supervisor: Dr. Mohammad Tamannaeei. (2018-2021)
- Mrs. Fahimeh Mehranfar, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Commodity Flow Policy-Making in Rail Transportation Networks, Supervisor: Dr. Mohammad Tamannaeei, Dr. Ramin Javadi. (2018-2021)
- Mr. Ehsan Salehi, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Analysis of competition between maritime and hinterland modes of freight Transportation, Supervisor: Dr. Mohammad Tamannaeei. (2017-2020)
- Mrs. Shima Taheri, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Intermodal Terminal Locating and Pricing with Considering External Costs, Supervisor: Dr. Mohammad Tamannaeei. (2017-2020)
- Mr. Alireza Taghizadegan, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Railway Network Design with Consideration of Competition between Rail and Road Transportation Modes, Supervisor: Dr. Mohammad Tamannaeei, Advisor: Dr. Hosein Falsafain (2016-2019)
- Mrs. Sayyede Maryam Bahrami, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: Vulnerability Assessment of Urban transportation Networks with Consideration of Private and Public Systems (Case Study: Isfahan), Supervisor: Dr. Mohammad Tamannaeei (2016-2019)
- Mr. Mohammad Hossein Dehshiri Parizi, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Identification of Demand Friction Factor in Loop Ramps Using Vehicle Motion Simulation in Interchange Facilities, Supervisors: Dr. Mohammad Tamannaeei, Dr. Hossein Haghshenas (2015-2018)
- Mr. Amir Chamani Foomani Dana, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Thesis: Using Surrogate Safety Measures for Safety Evaluation in Urban Intersections, Supervisor: Dr. Hossein Haghshenas, Dr. Mohammad Tamannaeei (2015-2018)
- Mrs. Sajede Aminzadegan, Master of Science, Field: Industrial Engineering, Department of Industrial & Systems Engineering, Isfahan University of Technology, Title of Thesis: Multi-agent approach to solve supply chain scheduling

problem with considering resource dependent processing time, distribution and resource allocation costs, weighted number of tardy orders and weighted tardiness, Supervisor: Dr. Morteza Rasti-Barzoki, Dr. Mohammad Tamannaie (2015-2018)

- Mr. Mohammad Sadegh Abbasi, Master of Science, Field: Road & Transportation, Department of Civil Engineering, Azad University of Isfahan, Title of Thesis: Transportation Method Selection in Mechanized Tunneling, Supervisor: Dr. Mohammad Tamannaie (2014-2017)
- Mr. Mahmoud Shafiepour Boroujeni, Master of Science, Field: Road & Transportation, Department of Civil Engineering, Isfahan University of Technology, Title of Thesis: Investigating the privatization requirements for construction of infrastructures in Iranian railway network, Supervisor: Dr. Sayyed Mahdi Abtahi, Dr. Mohammad Tamannaie (2014-2017)
- Mr. Amin Khosravi Bizhaem, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: Crew Scheduling Problem in Railway System (Case Study: Iranian Railway Network), Supervisor: Dr. Mohammad Tamannaie, Advisor: Dr. Mohammad Reisi-Nafchi (2014-2016)
- Mr. Morteza Amirzadeh, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: Analysis of International Freight Transportation Potential Passing through Iran, Supervisor: Dr. Mohammad Tamannaie (2017-2020)
- Mr. Hossein Sobhani, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: A Game-Theoretic Approach to Analyze Role of Backhauling in Competition of Road and Rail Competition for Freight Transportation, Supervisor: Dr. Mohammad Tamannaie (2017-2020)
- Mr. Kayhan Tavassoli Kalebastei, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: The Hierarchical Hub Network Design for Integrated Bike-and-Ride Services with Consideration of Competition with Private Transportation Mode, Supervisor: Dr. Mohammad Tamannaie (2016-2019)
- Mr. Mohammad Hossein Vali, Master of Science, Field: Transportation Planning, Department of Transportation Engineering, Isfahan University of Technology, Title of Research: Technical and Economic Evaluation of Railway Electrification, Case Study: Railway Corridor at North of Iran, Supervisor: Dr. Mohammad Tamannaie (2014-2017)

Research and Teaching Assistants

- Dr. Hamid Zarei, Research Assistant, Expertise: Optimization, Game Theory (2021-Now)
- Mrs. Shima Taheri, Research Assistant, Expertise: Transportation Engineering (2019-2021)
- Mr. Mehran Aghabozorgi, Research Assistant, Expertise: Code Implementation, Algorithm Design (2019-2021)
- Mr. Iman Irandoost, Research Assistant, Expertise: JAVA Code Implementation, Algorithm Design (2016-2018)
- Mrs. Sajedeh Aminzadegan, Teaching Assistant for course: Model Building in Transportation Engineering (2019)
- Mr. Mahdi Zakerzadeh, Teaching Assistant for course: Advanced Road Geometric Design (2016-2018)

Other Activities, Jobs, and Honors

- First Place between M.Sc. Students in Department of Civil Engineering, IUT (2010)
- Entrance to Ph.D. through the Talented Students Quotas (2011)
- Superior Rank in 2nd Festival of Urban Research in Isfahan Metropolitan Area (2011)
- Qualified by Iran's National Elites Foundation (Since 2011)
- Consultant of Transportation Organizations in both governmental and private sectors (Since 2011)
- Cooperation with “Family Counseling Center” at IUT (Since 2017)
- Transportation Consultant of Behtash Sepahan Rail Transport Company (Since 2017)
- Cooperation with “University Foundation” at IUT (Since 2018)
- Deputy of Department of Transportation Engineering at IUT (Since 2019)