

Curriculum Vitae

MOHAMMAD MIRALINAGHI

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<https://scholar.google.com/citations?user=Y3jv530AAAAJ&hl=en>

<https://publons.com/researcher/2429836/mohammad-miralinaghi/>

EDUCATION

- Ph.D. in Transportation and Infrastructure Systems Engineering, Purdue University 2018
Advisor: Prof. Srinivas Peeta
- MS in Transportation Systems Engineering, University of Alabama 2012
Advisor: Prof. Yingyan Lou
- MS in Transportation Planning, Sharif University of Technology 2010
Advisor: Prof. Yousef Shafahi
- BS in Mechanical Engineering, Georgia Institute of Technology 2008
- Visiting Researcher, Electric and Automated Transport Research Lab, Department of Transport & Planning, Delft University of Technology 2021-2022
- Post-Doctoral Research Associate, Center for Connected and Automated Transportation, Purdue University 2018-2021
- Research Assistant, NEXTRANS, USDOT Region 5 University Transportation Center, Purdue University 2012-2017
- Research Assistant, University Transportation Center for Alabama 2011-2012

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- Platooning at Interstate Highways", Indiana Department of Transportation (\$170,000) 2020
- x Labi, S., Chen, S., Miralinaghi, M., and Sinha, "Development of AI-Based and Control-Based Systems for Safe and Efficient Operations of Connected and Autonomous Vehicles", US DOT Center for Connected and Automated Transportation (\$370,000). 2020
- x Labi, S., and Miralinaghi, M., "Facilitating Electric Propulsion of Autonomous Vehicles Through Efficient Design of a Charging-Station Network", US DOT Center for Connected and Automated Transportation (\$70,000). 2019

- x Labi, S., Miralinaghi, M., and Sinha, K., "Changes in Highway Agency Expenditures and Revenue in an Era of CAVs", US DOT Center for Connected and Automated Transportation (\$70,000). 2018
- x Labi, S., Sinha, K., and Miralinaghi, M., "Design and Management of Highway Infrastructure to Accommodate CAVs", US DOT Center for Connected and Automated Transportation (\$70,000). 2018

HONORS AND AWARDS

- x Outstanding Postdoctoral Research Fellow, Lyles School of Civil Engineering, Purdue University 2022
- x Certificate of Appreciation for Outstanding Support and Dedication to the Paper Review Process during the COVID-19 Pandemic, Transportation Research Board (TRB) Standing Committee on Air Quality and Greenhouse Gas Mitigation (AMS10) 2022
- x NSF eFellows Postdoctoral Fellowship, American Society of Engineering Education 2021
- x Joseph M. Sussman Best Paper Prize, Journal of Frontiers in Built Environment 2020
- x Matthew G. Karlaftis Best Paper Award, ASCE Journal of Infrastructure Systems 2020
- x Eldon J. Yoder Memorial Award, Outstanding Graduate Student in Transportation Engineering, Lyles School of Civil Engineering, Purdue University 2016
- x 1st place, Student Research Competition, University of Transportation Center for Alabama 2011
- x Ranked 2nd among Transportation Engineering Graduate Students in Civil Engineering Department, Sharif University of Technology 2010
- x Ranked in Top one-tenth of one percent Nationwide, among 360,000, in Iran's Nationwide University Entrance Exam for Engineering and Applied Mathematics 2004

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- (13) Miralinaghi, M., and Peeta, S. (2018). "A Multi-Period Tradable Credit Scheme Incorporating Interest Rate and Traveler Value-of-Time Heterogeneity to Manage Traffic System Emissions." *Frontiers in Built Environment*, 4, 33. DOI: 10.3389/fbuil.2018.00033. CiteScore:2.6]
- (14) Shabanpour, R., Javanmardi, M., Fasihozaman, M. Miralinaghi, M., and Mohammadian, A. (2018). "Investigating the Applicability of ADAPTS Activity-Based Model in Air Quality Analysis." *Travel Behaviour and Society*, 12, 130–140. DOI: 10.1016/j.tbs.2017.02.004. [4.99]
- (15) Miralinaghi, M., Lou, Y., Keskin, B. B., Zamimehr, A., and Shabanpour, R. (2017). "Refueling Station Location Problem with Traffic Demand Considering Route Choice and Demand Uncertainty." *International Journal of Hydrogen Energy* 42(5), 3335–3351. DOI: 10.1016/j.ijhydene.2016.12.137. [5.82]
- (16) Miralinaghi, M., Keskin, B. B., Lou, Y., and Rbbandeh, A. M. (2017). "Capacitated Refueling Station Location Problem with Traffic Distributions Over Multiple Time Periods." *Networks and Spatial Economics* Springer US, 17(1), 129–151. DOI: 10.1007/s11067-016-9326-3. [4]
- (17) Shabanpour, R., Golshani, N., Derrible, S., Mohandara, A., and Miralinaghi, M. (2017). "Joint Discrete-Continuous Model of Travel Mode and Departure Time Choice." *Transportation Research Record* 2669, 41–51. DOI: 10.3141/2669-05. [1.56]
- (18) Miralinaghi, M., and Peeta, S. (2016). "Multi-Period Equilibrium Modeling Planning Framework for Tradable Credit Schemes."

- (20) Huang, H., Hsu, Y., and Miralinaghi, M. (2017). "Location Problem of Two-Level Disaster Relief Facilities for Vulnerable Networks."

Curriculum Vitae

- x Ha, P., Miralinaghi, M., Labi, S., and Chen, S. "Developing a Sustainable Transport System Under Electric and Autonomous Vehicles Dedicated Lane Deployment Scheme" INFORMS 2019 Annual Meeting Seattle, WA.
- x Miralinaghi, M., Correia, G., Seilabi, S.E., and Labi, S. "Parking Facility Location in the Era of Automated Vehicles" ASCE International Conference on Transportation & Development, 2019 Alexandria, VA.
- x T. Tabesh, M., Miralinaghi, M., and Labi, S. "Promoting the Usage of Electric Vehicles Through the Efficient Design of Charging Station Network" ASCE International Conference on Transportation & Development 2019 Alexandria, VA.
- x Ha, P., Miralinaghi, M., Labi, S., and Chen, S. "Developing a Sustainable Transportation System Under Electric and Autonomous Vehicles Dedicated Lane Deployment Scheme" ASCE International Conference on Transportation & Development 2019 Alexandria, VA.
- x Saeed TU, Alabi NB, Miralinaghi, M., Labi S, Sinha KC. "Preparing Highway Infrastructure for the Emerging Era of CAVs" ASCE International Conference on Transportation & Development, 2019 Alexandria, VA.
- x Miralinaghi, M., Correia, G., Seilabi, S.E., Labi, S., "Promoting the Usage of Electric Vehicles Through the Efficient Design of Charging Station Network" INFORMS 2018 Annual Meeting Phoenix, AZ.
- x Miralinaghi, M., Labi, S. "Robust Design of Refu

- x Mr. Song Sib0, B.Sc. Student, School of Traffic and Transportation, Beijing Jiaotong University
Research topic: Scheduling Optimization of Parcel Transportation Vehicles in Natural Disaster Environment Considering Assembly Time. Expected graduation date: Spring 2022.
- x Mr. Li Shangqing, B.Sc. Student, School of Traffic and Transportation, Beijing Jiaotong University
Research topic: Research on Optimal Allocation of Facilities in Charging Station for Electric Vehicles. Expected graduation date: Spring 2022.
- x Mr. Paul Ha, M.Sc. Student, Lyles School of Civil Engineering, Purdue University
Research topic: Equity and Emission Considerations in Autonomous Vehicle Dedicated Lane Deployment Scheme. Graduation date: Fall 2019.
- x Mr. Mahmood Tarighati Tabesh, M.Sc. Student, Lyles School of Civil Engineering, Purdue University
Research topic: Analysis and Evaluation of Parking Infrastructure Scenarios at Various Automated Vehicles Transition Phases. Graduation date: Fall 2020.
- x Mr. Amir Davatgari, M.Sc. Student, Lyles School of Civil Engineering, Purdue University
Research topic: Location Planning for Electric Charging Stations and Wireless Facilities in the Era of Autonomous Vehicle Operations. Graduation date: Spring 2021.

TEACHING EXPERIENCE

- x Certificate of Foundations in College Teaching, Center for Instructional Excellence, Fall 2019
Purdue University
- x Certificate of Practice in College Teaching, Center for Instructional Excellence, Fall 2019
Purdue University

Instructor

- x CE 597: Traffic Congestion Pricing: Theories and Applications to Smart Mobility (10 students) Fall 2019
- x CE 398: Introduction to Civil Engineering Systems Design (101 students) Spring 2019
- x CE 398: Introduction to Civil Engineering Systems Design (78 students) Spring 2018

Teaching Assistant

- x CE 594: Transportation Systems Analysis (Purdue University) Spring 2014
- x CE 255: Engineering Statistics I (University of Alabama) Spring 2012
- x CE 121: Introduction to Civil Engineering (University of Alabama) Spring 2012
- x CE 558: Traffic Engineering (University of Alabama) Spring 2011 & Fall 2011
- x System Engineering (Sharif University of Technology) Spring 2010 & Fall 2009
- x Simulation (Sharif University of Technology) Spring 2010
- x Operation Research in Transportation (Sharif University of Technology) Fall 2010
- x Transportation Engineering (Sharif University of Technology) Fall 2009

PROFESSIONAL SERVICE

Editorial and Conference Roles

- x Paper Review Coordinator Deputy, TRB Standing Committee on Transportation Demand Management (AEP60), 2021-2025.
- x Paper Review Team Member, TRB Standing Committee on Air Quality and Greenhouse Gas Mitigation (AMS10), 2022.

- x Guest Associate Editor, Road Infrastructure Preparation Toward the Connected and Autonomous Vehicles Era, ASCE Journal of Infrastructure Systems (2022).
- x Lead Guest Editor, Sustainable Transportation and Traffic in Smart Cities, Sustainability Journal (2021).
- x Lead Guest Editor, Electric Vehicles: Planning and Operations, Journal of Advanced Transportation (2021).
- x Lead Associate Editor, Pricing and Incentive Strategies for Demand Management in the Era of Connected, Automated, Shared, and Electric-propelled Transportation, Standing Committees on Congestion Pricing (ABE25) and Network Modeling (ADB30), Transportation Research Record (2020).
- x Guest Associate Editor, Advances in Planning for Emerging Transportation Technologies: Towards Automation, Connectivity, and Electric Propulsion, Frontiers in the Built Environment: Transportation and Transit Systems (2020).
- x Session Co-organizer, Pricing and Incentive Strategies Leveraging Emergent Technologies, INFORMS Annual Meeting (2020), Washington, DC.

Selected Journal Paper Reviewer

- x Computer-Aided Civil and Infrastructure Engineering
- x Transportation Research Record (TRB) Standing Committees
 - Transportation Demand Management (AEP60)
 - Travel Forecasting (AEP50)
 - Air Quality and Greenhouse Gas Mitigation (AMS10)
 - Alternative Fuels and Technologies (AMS40)
 - Congestion Pricing (ABE25)
 - Network Modeling (ADB30)
 - Alternative Transportation Fuels and Technologies (ADC80)
 - Public Transportation Group (AP000)
- x Institute of Electrical and Electronics Engineers (IEEE) Access
- x Networks and Spatial Economics
- x Transportation Research Part E
- x Sustainability
- x Journal of Advanced Transportation
- x Journal of Intelligent Transportation Systems
- x Transportmetrica B: Transport Dynamics
- x Transportation Research Part C
- x Transportation Research Part B
- x

- x Annals of Operation Research

Professional Memberships and Service

- x Member, TRB Standing Committee on Transportation Demand Management (TEP60) (2021-2025).
- x Member, TRB Standing Committee on Congestion Pricing (ABE25) (2017-2021).
- x President, Institute of Transportation Engineers (ITE) at Purdue University (2015-2016).
- x Vice President, Institute of Transportation Engineers (ITE) at Purdue University (2014-2015).
- x Member, Institute of Transportation Engineers (2011-2020).
- x Member, Institute for Operations Research and the Management Sciences (2011-2020).

COMMUNITY SERVICE

- x Member, UNICEF Campus Initiative Purdue University (2014-2017).
- x Member, American Cancer Society Colleges Against Cancer at Purdue University (2016-2017).

REFERENCES

Prof. Samuel Labi

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