MOHAMMAD MIRALINAGHI

3201 S Dearborn St, Department of Civil, Architectural and Environmental Engineering, Chicago, IL 60616
Email: smiralinaghi@iit.edu ● Cell: +1 (205) 861-7849
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 Civil Engineering, Sharif University of Technology   2008

ACADEMIC EXPERIENCE

Assistant Professor, Department of Civil, Architectural and Environmental Engineering, Illinois Institute of Technology   2022-

National Science Foundation Post-Doctoral Research Fellow, Infrastructure Research Group, School of Civil and Environmental Engineering, Georgia Institute of Technology   2022

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

FUNDED RESEARCH PROJECTS

- Miralinaghi, M., Amekudzi, A., "Transportation Infrastructure Resiliency in the Era of Connected and Autonomous Vehicles", National Science Foundation ($259,200)   2021

- Labi, S., Fricker, J., and Miralinaghi, M., "Mobility & Safety Considerations of Truck Platooning at Interstate Highways", Indiana Department of Transportation ($170,000)   2020

- Labi, S., Chen, S., Miralinaghi, M., and Sinha, K., "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

- 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

- 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

- 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

- Outstanding Postdoctoral Research Fellow, Lyles School of Civil Engineering, Purdue University   2022

- 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

- NSF eFellows Postdoctoral Fellowship, American Society of Engineering Education   2021

- Joseph M. Sussman Best Paper Prize, Journal of Frontiers in Built Environment   2020

- Matthew G. Karlaftis Best Paper Award, ASCE Journal of Infrastructure Systems   2020

- Eldon J. Yoder Memorial Award, Outstanding Graduate Student in Transportation Engineering, Lyles School of Civil Engineering, Purdue University   2016

- 1st place, Student Research Competition, University Transportation Center for Alabama   2011

- Ranked 2nd among Transportation Engineering Graduate Students in Civil Engineering Department, Sharif University of Technology   2010

- 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

RESEARCH INTERESTS

Smart Cities

- Connected and automated vehicles
- Shared transportation systems
- Electric vehicles
- Intelligent transportation systems

Transportation Infrastructure Design and Management

- Transportation infrastructure resiliency
- Sustainable transportation systems
- Tradable credit scheme and congestion pricing
- Transportation system optimization

PUBLICATIONS

Journal Papers (peer-reviewed)

(1) Saneii, M., Kazemeini, A., Seilabi, S.E., Miralinaghi, M., Labi, S. (2022). A Methodology for Scheduling Within-Day Roadway Work Zones Using Deep Neural Networks and Active Learning. Computer-Aided Civil & Infrastructure Engineering, 35, 650–667. DOI: 10.1111/mice.12921

(2) Dong, J., Chen, S., Miralinaghi, M., Chen, T., Labi, S. (2022). "Development and testing of an image transformer for explainable autonomous driving systems", 5(3), 235-249, Journal of Intelligent and Connected Vehicles. DOI: 10.1108/JICV-06-2022-0021

(3) Shen, C-W, Mao, M-N, Hsu, Y., M., Miralinaghi, M. (2022). "Research on Features of Pedestrians Using Smartphones at Transit Stations —Based on Social Force Model", Accepted, Transportation Research Record. DOI: 10.1177/036119812210909 [IF:1.56]

(4) Miralinaghi, M., Davatgari, A., Seilabi, S.E., and Labi, S. (2021). "Contract Bundling Considerations in Urban Road Project Scheduling.", *Computer-Aided Civil and Infrastructure Engineering.* DOI: 10.1111/mice.12740 [*IF:11.78*]

(5) Bai, Q., Miralinaghi, M., Labi, S., and Sinha, K. (2020). "Methodology for Analyzing the Trade-offs Associated with Multi-objective Optimization in Transportation Asset Management under Uncertainty." *Computer-Aided Civil and Infrastructure Engineering.* DOI: 10.1111/mice.12637 [*IF: 11.78*]

(6) Miralinaghi, M., Seilabi, S.E., Chen, S., Hsu, Y., and Labi, S. (2020). "Optimizing the Selection and Scheduling of Multi-Class Projects using a Stackelberg Framework." *European Journal of Operational Research,* 286(2), 508-522. DOI: 10.1016/j.ejor.2020.03.051 [*IF:5.34*]

(7) Miralinaghi, M., Woldemariam, W., Abaraham, D.M., Chen, S., Labi, S., and Chen, Z. (2020). "Network-Level Scheduling of Construction Projects Considering User and Business Impacts." *Computer-Aided Civil and Infrastructure Engineering,* 35, 650–667. DOI: 10.1111/mice.12518. [*IF: 11.78*]

(8) Miralinaghi, M., and Peeta, S. (2020). "On the Design of Tradable Credit Scheme to Manage Vehicular Emissions under Traveler Heterogeneity in Future Credit Price Perception." ASCE *Journal of Infrastructure Systems*, 26 (3), 04020030. DOI: 10.1061/(ASCE)IS.1943-555X.0000570. [*IF:1.83*]

(9) Seilabi, S.E., Davatgari, A., Miralinaghi, M., and Labi, S. (2020). "Promoting Autonomous Vehicles using Travel Demand and Lane Management Strategies considering AV dedicated lanes." *Frontiers in Built Environment,* 6:560116. DOI: 10.3389/fbuil.2020.560116 [*CiteScore:2.60*]

(10) Feng, J., Chen, S., Ye, Z., Miralinaghi, M., Labi, S., and Chai, J. (2020). "Repositioning Shared Urban Personal Transport Units: Considerations of Travel Cost and Demand Uncertainty." ASCE *Journal of Infrastructure Systems*, 04021011, 1-12. [*IF:1.83*]

(11) Miralinaghi, M., and Peeta, S. (2019). "Promoting Zero-Emissions Vehicles Using Robust Multi-Period Tradable Credit Scheme." *Transportation Research Part D: Transport and Environment*, 75, 265-285. DOI: 10.1016/j.trd.2019.08.012. [*IF:5.50*]

(12) Miralinaghi, M., Peeta, S., He, X., and Ukkusuri, S.V. (2019). "Managing Morning Commute with Tradable Credit Scheme Under Commuter Heterogeneity and Loss Aversion." *Transportmetrica B: Transport Dynamics,* 7(1), 1780-1808. DOI: 10.1080/21680566.2019.1698379. [*IF:3.04*]

(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:2.60*]

(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. [*IF:4.99*]

(15) Miralinaghi, M., Lou, Y., Keskin, B. B., Zarrinmehr, A., and Shabanpour, R. (2017). "Refueling Station Location Problem with Traffic Deviation Considering Route Choice and Demand Uncertainty." *International Journal of Hydrogen Energy*, 42(5), 3335–3351. DOI: 10.1016/j.ijhydene.2016.12.137. [*IF:5.82*]

(16) Miralinaghi, M., Keskin, B. B., Lou, Y., and Roshandeh, A. M. (2017). "Capacitated Refueling Station Location Problem with Traffic Deviations Over Multiple Time Periods." *Networks and Spatial Economics*, Springer US, 17(1), 129–151. DOI: 10.1007/s11067-016-9320-3. [*IF:2.54*]

(17) Shabanpour, R., Golshani, N., Derrible, S., Mohammadian, A., and Miralinaghi, M. (2017). "Joint Discrete-Continuous Model of Travel Mode and Departure Time Choices." *Transportation Research Record*, 2669, 41–51. DOI: 10.3141/2669-05. [*IF:1.56*]

(18) Miralinaghi, M., and Peeta, S. (2016). "Multi-Period Equilibrium Modeling Planning Framework for Tradable Credit Schemes." *Transportation Research Part E: Logistics and Transportation Review*, 93, 177–198. DOI: 10.1016/j.tre.2016.05.013. [*IF:6.88*]

(19) Miralinaghi, M., Lou, Y., Hsu, Y.-T., Shabanpour, R., and Shafahi, Y. (2016). "Multiclass Fuzzy User Equilibrium with Endogenous Membership Functions and Risk-Taking Behaviors." *Journal of Advanced Transportation*, 50(8), 1716–1734. DOI: 10.1002/atr.1425. [*IF:2.42*]

(20) Miralinaghi, M., Shafahi, Y., and Anbarani, R. S. (2015). "A Fuzzy Network Assignment Model Based on User Equilibrium Condition." *Scientia Iranica A*, 22(6), 2012–2023. [SJR: 0.30]

Conference Proceedings (peer-reviewed)

(1) Seilabi, S.E., Pourgholamali, M., Miralinaghi, M., Correia, G., He, S., and Labi, S. "Managing Dedicated Lanes for Connected and Autonomous Vehicles to Address Bottleneck Congestion Considering Morning Peak Commuter Departure Choices", *Transportation Research Board 102nd Annual Meeting*, Washington, D.C.

(2) Seilabi, S.E., Saneii, M., Pourgholamali, M., Miralinaghi, M., and Labi, S. "Evaluation of Schedule and Full vs. Partial Link Closure Options for Urban Network Road Projects: Methodology and Case Study", *Transportation Research Board 102nd, Annual Meeting*, Washington, D.C.

(3) Saneii, M., Kazemeini, A., C, Seilabi, S.E., Miralinaghi, M., and Labi, S. "A Methodology for Scheduling Within-day Roadway Work Zones Using Deep Neural Networks and Active Learning", *Transportation Research Board 102nd Annual Meeting*, Washington, D.C.

(4) Dong, J., Chen, S., Chen, T., Miralinaghi, M., and Labi, S. (2023). "End-to-end Transformer for Explainable Autonomous Driving", *Transportation Research Board 102nd Annual Meeting*, Washington, D.C.

(5) Pourgholamali, M., Miralinaghi, M., Ha, P., Seilabi, S.E., and Labi, S. (2022). "Sustainability Considerations in Deploying Exclusive Highway Lanes for Autonomous Vehicles", *Transportation Research Board 101th Annual Meeting*, Washington, D.C.

(6) Seilabi, S.E., Pourgholamali, M., <u>Miralinaghi, M.</u>, Correia, G., and Labi, S. (2022). "Robust Design of CAV-Dedicated Lanes Considering CAV Demand Uncertainty and Lane Reallocation Policy", *Transportation Research Board 101th Annual Meeting*, Washington, D.C.

(7) Dong, J., Chen, S., Zong, S., Chen, T., <u>Miralinaghi, M.</u>, and Labi, S. (2022). "Development and Testing of an Image Transformer for Explainable Autonomous Driving Systems", *Transportation Research Board 101th Annual Meeting*, Washington, D.C.

(8) Shen, C-W, Mao, M-N, Hsu, Y., M., <u>Miralinaghi, M.</u> (2022). "Research on Features of Pedestrians Using Smartphones at Transit Stations —Based on Social Force Model", *Transportation Research Board 101th Annual Meeting*, Washington, D.C.

(9) <u>Miralinaghi, M.</u>, Correia, G., Seilabi, S.E., and Labi, S. (2021). "Managing Urban Vehicular Emissions Through the Efficient Design of Electric Charging Station Infrastructure." *Transportation Research Board 100th Annual Meeting*, Washington, D.C.

(10) <u>Miralinaghi, M.</u>, Tabesh, MT., Correia, G., Davatgari, A., Seilabi, S.E., and Labi, S. (2021). "Robust Design of Electric Charging Locations under Travel Demand Uncertainty and Driving Range Heterogeneity." *Transportation Research Board 100th Annual Meeting*, Washington, D.C.

(11) Seilabi, S., Davatgari, A., <u>Miralinaghi, M.</u>, and Labi, S. (2021). "Total Road Closure or Partial Closure – Insights for Road Project Scheduling." *Transportation Research Board 100th Annual Meeting*, Washington, D.C.

(12) <u>Miralinaghi, M.</u>, Correia, G., Seilabi, S.E., and Labi, S. (2020). "Minimizing Urban Vehicular Emissions Through the Efficient Design of Electric Charging Station Network." *IEEE Intelligent Transportation Systems Society Conference*, Delft, Netherlands.

(13) <u>Miralinaghi, M.,</u> Woldemariam, W., Abraham, D. M., Agyemang, A., Chen, S., and Labi, S. (2019). "Network Level Scheduling of Construction Projects Considering User and Business Impacts." *Transportation Research Board 98th Annual Meeting,* Washington, D.C., (19-03829).

(14) <u>Miralinaghi, M.,</u> Seilabi, S.E., Chen, S., Hsu, Y., and Labi, S. (2019). "Time-Dependent Traffic Network Design Under Multi-Class Projects." *Transportation Research Board 98th Annual Meeting,* Washington, D.C., (19-03832).

(15) Chen, Y., Hsu, Y., and <u>Miralinaghi, M.</u> (2019). "Optimizing Resilience of Restoration Disrupted Interdependent Infrastructure Systems." *Transportation Research Board 98th Annual Meeting,* Washington, D.C., (19-03331).

(16) Chen, S., Ghahari, S.A., <u>Miralinaghi, M.</u>, and Labi, S. (2019). "Assessing Performance Outcomes and Ranking of Jurisdictions – A Nonparametric Efficiency Approach for Asset Management." *Transportation Research Board 98th Annual Meeting,* Washington, D.C., (19-05065).

(17) <u>Miralinaghi, M.</u>, Peeta, S., He, X., and Ukkusuri, S. V. (2017). "Managing Morning Commute Congestion with Tradable Credit Scheme Under Commuter Heterogeneity and Loss Aversion." *Transportation Research Board 96th Annual Meeting*, Washington, D.C., (17–01040).

(18) <u>Miralinaghi, M.</u>, Lou, Y., Keskin, B. B., Hsu, Y., and Shabanpour R. (2017). "Hydrogen Refueling Station Location Problem with Traffic Deviation Considering Route Choice and Demand Uncertainty." *Transportation Research Board 96th Annual Meeting*, Washington, D.C., (17–01745).

(19) Shabanpour, R., Golshani, N., Derrible, S., Mohammadian, A., and <u>Miralinaghi, M.</u> (2017). "A Cluster-based Joint Model of Travel Mode and Departure Time Choices." *Transportation Research Board 96th Annual Meeting*, Washington, D.C., (17-01203).

(20) Huang, H., Hsu, Y., and Miralinaghi, M. (2017). "A Location Problem of Two-Level Disaster Relief Facilities for Vulnerable Networks." *Transportation Research Board 96th Annual Meeting*, Washington, D.C., (17–06756).

(21) Miralinaghi, M., and Peeta, S. (2014). "Design of Tradable Credit Schemes over Multiple Time Periods." *Transportation Research Board 93rd Annual Meeting*, Washington, D.C., (14–4339).

Manuscripts under Review

- Miralinaghi, M., Correia, G., Seilabi, S.E., and Labi, S. (2021). "Minimizing Urban Vehicular Emissions Through the Efficient Design of Electric Charging Station Network.", Invited for revision, *Networks and Spatial Economics.* [*IF:2.54*]

- Pourgholamali, M., Miralinaghi, M., Ha, P., Seilabi, S.E., and Labi, S. (2021). "Sustainability Considerations in Deploying Exclusive Highway Lanes for Autonomous Vehicles", First Round, *International Journal of Sustainable Transportation*. [*IF:3.93*]

- Seilabi, S.E., Davatgari, A., Miralinaghi, M., and Labi, S. (2021). "Road Project Scheduling - Considerations of Relationship Between Road Capacity and Project Duration, and Road User Behavior", First round, *Transportmetrica A.* [IF:3.42]

- Miralinaghi, M., Correia, G., Seilabi, S.E., and Labi, S. (2021). "Robust Design of Electric Charging Locations under Travel Demand Uncertainty and Driving Range Heterogeneity", First Round, *Computer-Aided Civil and Infrastructure Engineering.* [IF: 11.78]

Research Reports

- Woldemariam, W., Agyemang, A., Miralinaghi, M., Abraham, D., and Sinha, K. (2020). "Network-Level Scheduling of Road Projects during the Construction Season Considering Network Connectivity." JTRP Technical Reports 4160, Indiana Department of Transportation.

- Agrawal, S., Liu, X., Pekny, J., Peeta, S., Dietz, J.E., and Miralinaghi, M. (2016). "Developing Operational and Policy Insights into Next Generation Vehicle Needs Based on an Integrated Understanding of the Transportation and Energy System of Systems." NEXTRANS Project No. 107PUY2. 1, NEXTRANS Center, Purdue University.

PRESENTATIONS

Selected Peer-Reviewed Conference Presentations

- Miralinaghi, M., Davatgari, A., Seilabi, S.E., Ouyang, Y., Labi, S. (2021). "Managing the Morning Commute Problem Using Ridesharing Program and Tradable Credit Scheme*" International Symposium on Dynamic Traffic Assignment 2021,* Seattle, United States.

- Tabesh, M., Miralinaghi, M., Labi, S. (2021). "Optimal Deployment of Capacitated Parking Facilities in the Era of Autonomous Vehicles*" International Symposium on Dynamic Traffic Assignment 2021,* Seattle, United States.

- Seilabi, S.E., Miralinaghi, M., Correia, G., and Labi, S. (2020). "Selecting and Scheduling of Urban Road Projects Considering the Road Project Capacity-duration Relationship and Travelers' Route Choice Heterogeneity", *Transportation Research Board 99th Annual Meeting,* Washington, D.C.

- Miralinaghi, M., and Peeta, S. (2020). "On the Design of Tradable Credit Scheme to Manage Vehicular Emissions under Traveler Heterogeneity in Future Credit Price Perception." *Transportation Research Board 99th Annual Meeting*, Washington, D.C.

- Miralinaghi, M., Tabesh, M., Seilabi, S.E., Hsu, Y., Labi, S., and Fricker, J. D. (2020) "Bi-level Multi-Objective Optimization of Urban Road Project Scheduling considering Contract Bundling." *Transportation Research Board 99th Annual Meeting,* Washington, D.C.

- Ha, P., Miralinaghi, M., Labi, S., and Chen, S. (2019). "Equity and Emissions Considerations in Autonomous Vehicle Dedicated Lane Deployment Scheme." *Transportation Research Board 98th Annual Meeting,* Washington D.C.

- Miralinaghi, M., and Peeta, S. (2018). "Robust Multi-Period Tradable Credit Scheme to Promote Zero-Emissions Vehicles Under Travel Demand Uncertainty.*" International Symposium on Dynamic Traffic Assignment 2018,* Hong Kong.

- Shabanpour R., Golshani, N., Derrible, S., Mohammadian, A., and Miralinaghi, M. (2017). "A Cluster-based Joint Model of Travel Mode and Departure Time Choices." *Transportation Research Board 96th Annual Meeting,* Washington D.C.

- Huang, H., Hsu, Y., and Miralinaghi, M. (2017). "A Location Problem of Two-Level Disaster Relief Facilities for Vulnerable Networks." *Transportation Research Board 96th Annual Meeting*, Washington D.C.

- Miralinaghi, M., Peeta, S., He, X., and Ukkusuri, S.V. (2016). "Managing Morning Commute with Tradable Credit Scheme under Commuter Heterogeneity and Loss Aversion.*" International Symposium on Dynamic Traffic Assignment 2016,* Sydney, Australia.

- Miralinaghi, M., and Peeta, S. (2015). "Multi-period Equilibrium Modeling Framework for Tradable Credit Schemes." *Transportation Research Board 94th Annual Meeting*, Washington D.C.

- Miralinaghi, M., and Peeta, S. "Design of Tradable Credit Schemes over Multiple Time Periods." *Transportation Research Board 93rd Annual Meeting*, Washington D.C.

- Miralinaghi, M., and Peeta, S. "Managing Morning Commute with Market-Based Instruments considering Commuters Heterogeneity in Discrete-Time Settings" *International Symposium on Dynamic Traffic Assignment 2014",* Salerno, Italy.

Selected National or International Conferences

- Saneii, M., Kazemeini, A., C, Seilabi, S.E., Miralinaghi, M., and Labi, S. "A Methodology for Scheduling Within-day Roadway Work Zones Using Deep Neural Networks and Active Learning", *INFORMS 2022 Annual Meeting,* Indianapolis, IN.

- Miralinaghi, M., Pourgholamali, M., Seilabi, S.E., and Labi, S. "Sustainability Considerations for AV-exclusive Lanes Deployment", *INFORMS 2021 Annual Meeting*, Anaheim, CA.

- Davatgari, A., Miralinaghi, M., Seilabi, S.E., and Labi, S. "Managing the Morning Commute Problem Using Ridesharing Programs and Tradable Credit Scheme" *INFORMS 2020 Annual Meeting*, Washington, DC.

- Radvand, T., M., Miralinaghi, M., Labi, S. and Alinizzi, M. "Electric Charging Infrastructure Deployment the Past the Present and the Future", *INFORMS 2020 Annual Meeting*, Washington, DC.

- Ha, P., <u>Miralinaghi, M.</u>, 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.

- <u>Miralinaghi, M.</u>, 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.

- T. Tabesh, M., <u>Miralinaghi, M.</u>, 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.

- Ha, P., <u>Miralinaghi, M.</u>, 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.

- Saeed TU, Alabi NB, <u>Miralinaghi, M.</u>, Labi S, Sinha KC. "Preparing Highway Infrastructure for the Emerging Era of CAVs". *ASCE International Conference on Transportation & Development 2019*, Alexandria, VA.

- <u>Miralinaghi, M.</u>, 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.

- <u>Miralinaghi, M.</u>, Labi, S. "Robust Design of Refueling Station Locations for Alternative Fuel Vehicles with Driving Range Constraint", *INFORMS 2017 Annual Meeting*, Houston, TX.

- <u>Miralinaghi, M.</u>, Keskin, B. B., Lou, Y., Roshande, A. "Capacitated Refueling Station Location Problem with Traffic Deviations over Multiple Time Periods", *INFORMS 2016 Annual Meeting*, Nashville, TN.

- <u>Miralinaghi, M.</u>, Peeta, S. "Morning Commute Management Considering Commuters' Aversion to Credit Loss," *INFORMS 2015 Annual Meeting*, Philadelphia, PA.

- <u>Miralinaghi, M.</u>, Peeta, S. "On the Design of Multi-Period Tradable Credit Schemes for Travel Mobility," *INFORMS 2014 Annual Meeting*, San Francisco, CA.

- <u>Miralinaghi, M.</u>, Peeta, S. "Design of Tradable Credit Schemes over Multiple Time Periods," *INFORMS 2013 Annual Meeting*, Minneapolis, MN.

- <u>Miralinaghi, M.</u>, Peeta, S. "More Equitable Congestion Pricing and Tradable Credit Scheme for Managing Rush Hour Travel Choices," *INFORMS 2013 Annual Meeting*, Minneapolis, MN.

- <u>Miralinaghi, M.</u>, Lou, Y., Keskin, B. B. "Locating Refueling Stations for Alternative Fuel Vehicles with Autonomous Users and Demand Uncertainty," *INFORMS 2012 Annual Meeting*, Phoenix, AZ.

- Lou, Y. and <u>Miralinaghi, M.</u> "Traffic Assignment based on Fuzzy User Equilibrium Conditions," *University Transportation Center for Alabama*, Birmingham, AL, December 2011.

- Lou, Y. and <u>Miralinaghi, M.</u> "Stochastic User Equilibrium with Bounded Perception Errors," *INFORMS 2011 Annual Meeting*, Charlotte, NC.

MENTORING EXPERIENCE

- Mr. Mohammadhosein Pourgholamali, Ph.D. Student, Lyles School of Civil Engineering, Purdue University
  Research topic: Managing Morning Commute Congestion Using Ridesharing Programs Under Tradable Credit Scheme. Expected graduation date: Spring 2024.

- Mr. Song Sibo, B.Sc. Student, School of Traffic and Transportation, Beijing Jiaotong University
  Research topic: Scheduling Optimization of Personnel Transportation Vehicles in Natural Disaster Environment Considering Assembly Time. Expected graduation date: Spring 2022.
- 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.
- 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.
- 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.
- 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

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

Instructor

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

Teaching Assistant

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

PROFESSIONAL SERVICE

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

- Guest Associate Editor, *Road Infrastructure Preparation Toward the Connected and Autonomous Vehicles Era*, ASCE Journal of Infrastructure Systems (2022).
- Lead Guest Editor, *Sustainable Transportation and Traffic in Smart Cities*, Sustainability Journal (2021).
- Lead Guest Editor, "*Electric Vehicles: Planning and Operations*", Journal of Advanced Transportation (2021).
- 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).
- 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).
- Session Co-organizer, *Pricing and Incentive Strategies Leveraging Emergent Technologies*, INFORMS Annual Meeting (2020), Washington, DC.

Selected Journal Paper Reviewer

- Computer-Aided Civil and Infrastructure Engineering
- 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)
- Institute of Electrical and Electronics Engineers (IEEE) Access
- Networks and Spatial Economics
- Transportation Research Part E
- Sustainability
- Journal of Advanced Transportation
- Journal of Intelligent Transportation Systems
- Transportmetrica B: Transport Dynamics
- Transportation Research Part C
- Transportation Research Part B
- Case Studies on Transport Policy
- Transportation Research Part D
- IEEE Intelligent Transportation Systems Magazine
- Energy Policy
- Asian Transport Studies

- Annals of Operation Research

Professional Memberships and Service

- Member, TRB Standing Committee on Transportation Demand Management (AEP60) (2021-2025).
- Member, TRB Standing Committee on Congestion Pricing (ABE25) (2017-2021).
- President, Institute of Transportation Engineers (ITE) at Purdue University (2015-2016).
- Vice President, Institute of Transportation Engineers (ITE) at Purdue University (2014-2015).
- Member, Institute of Transportation Engineers (2011-2020).
- Member, Institute for Operations Research and the Management Sciences (2011-2020).

COMMUNITY SERVICE

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

REFERENCES

Prof. Samuel Labi
Professor
Director, NEXTRANS Center
Associate Director, Center for Connected and Automated Transportation
Lyles School of Civil Engineering
550 Stadium Mall Drive
West Lafayette, IN 47907-2051
Phone: (765) 494-5926
E-mail: labi@purdue.edu

Prof. Srinivas Peeta
Frederick R. Dickerson Chair in Transportation Systems
School of Civil and Environmental Engineering
Georgia Institute of Technology
790 Atlantic Drive
Atlanta, GA 30332-0355
Phone: (404) 894-2201
Email: srinivas.peeta@ce.gatech.edu

Prof. Goncalo Correia
Associate Professor
Department of Transport & Planning
Co-director of the hEAT Lab
Building 23, Stevinweg 1
2628 CN Delft
Phone: +31 (15) 27 81384
Email: G.Correia@tudelft.nl

Prof. Yingyan Lou
Associate Professor
School of Civil, Environmental and Sustainable Engineering
Arizona State University
660 S. College Avenue, P.O. Box 873005
Tempe, AZ 85287-3005
Phone: (480) 965-6361
Email: yingyan.lou@asu.edu

Prof. Xiaozheng (Sean) He
Assistant Professor
Department of Civil & Environmental Engineering
Rensselaer Polytechnic Institute
110 8th St., JEC 4034
Troy, NY, 12180
Phone: (518) 276-8043
Email: hex6@rpi.edu