

Curriculum Vitae
Eren Erman Ozguven

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General Information

University address: Civil and Environmental Engineering
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Professional Preparation

2012 Doctoral Degree, RUTGERS THE STATE UNIVERSITY OF NEW JERSEY. Major: Civil and Environmental Engineering. Emergency Planning and Humanitarian Logistics. Supervisor: Kaan Ozbay.

Ozguven, E. E. (2012). *A Secure and Efficient Inventory Management System for Disasters*. Unpublished doctoral dissertation, RUTGERS THE STATE UNIVERSITY OF NEW JERSEY. Retrieved from <http://dx.doi.org/doi:10.7282/T3BV7FJ1/>.

2006 Master's Degree, BOGAZICI UNIVERSITY. Major: Industrial Engineering. Port Planning and Statistics. Supervisor: Kuban Altinel.

Ozguven, E. E. (2006). *Optimum Quay Length Determination Using Inventory and Stochastic Models*. Unpublished master's thesis, BOGAZICI UNIVERSITY.

2002 Bachelor's Degree, BOGAZICI UNIVERSITY. Major: Civil Engineering. Structures. Supervisor: Cem Yalcin.

Professional Experience

2019–present Associate Professor, Civil and Environmental Engineering, Florida State University.

- 2013–2019 Assistant Professor, Civil and Environmental Engineering, Florida State University.
- 2012 Post-Doctoral Research Associate, Civil and Environmental Engineering, Rutgers University.
- 2006–2012 Graduate Research Assistant, Civil and Environmental Engineering, Rutgers University.
- 2005 Project Engineer, Design, ORIENT RESEARCH Consulting Engineers.
- 2003–2004 Project Engineer, Design, TANCON Construction and Consulting.
- 2002–2003 Project Engineer, Seismic Assessment, DITEK Earthquake and Engineering.

Honors, Awards, and Prizes

Nominee, Graduate Teaching Award, Florida State University (2020).
Faculty Innovation Award, IBM (2018). (\$20,000).

Fellowship(s)

Transportation Coordinating Council/Federal Transit Administration Fellowship (2009–2010).

Current Membership in Professional Organizations

American Society of Civil Engineers
Emerging Design and Construction Technologies Committee (Transportation Research Board)
IEEE Intelligent Transportation Systems Society
INFORMS
Institute of Transportation Engineers
Transportation Research Part D Editorial Board

Teaching

My interest in teaching stems from a deep enthusiasm in interacting with students and contributing to their learning process. It has been a very pleasurable and rewarding experience to see the students grow as future thinkers and decision makers through their education at the FAMU-FSU College of Engineering since I joined the college in January 2013. I also believe that an academic life in engineering provides the opportunity of combining research and teaching by encouraging the students into real-life applications while teaching classes at the same time. These applications directly enable students to engage in research ultimately feeding some aspects of that research back into the classroom. Since I joined the College of Engineering, I have taught one undergraduate course and three graduate courses in the fields of transportation engineering, statistics, systems analysis and economics. During this period, I have successfully created an online graduate course (EGN 5458: Statistical Applications for Engineers), which

serves as the mathematics requirement for the department. I have been teaching this course since 2013 with an enrollment of at least 15 students. This has been a course that attracted not only Civil and Environmental Engineering students but also students from other engineering disciplines (Mechanical, Biomedical, Industrial and Electrical Engineering) as well as the science departments (Applied Mathematics). I have also developed and taught two new transportation-focused graduate courses, TTE 5305: Transportation Systems Analysis, and TTE 5501: Transportation Economics, which have strengthened the department's graduate program by giving the MS and PhD students the chance to broaden their advanced knowledge and skills in the area of transportation engineering. Transportation Systems Analysis course has also attracted students from the Department of Urban Planning. I have received consistently good evaluations from students over the last five years, typically over 84% of very good/excellent reviews (Excellent (59%), Very Good (%25), Good (%9), Fair (%7)).

Courses Taught

Civil Engineering Seminar (CGN5935)
Introduction to Geomatics Engineering Lab (CEG2202L)
Statistical Applications for Engineers (EGN5458)
Transportation Economics (TTE5501)
Sp. Top:Trans. Economics (CGN5930)
Statistical Applications (CGN5930)
Directed Individual Study (CGN5905)
Emission Analysis (CGN5905)
Traffic Simulation w/VISSIM (CGN5905)
Transportation Systems Analysis (TTE5305)
Transportation Engineering (TTE3004)
Sp. Top:Trans. Sys. Analysis (CGN5930)
Directed Individual Study (CGN5930)
Sp. Top:Statistical Applications for Engineers (CGN5930)

New Course Development

Transportation Economics (2015)
Transportation Systems Analysis (2015)
Statistical Applications for Engineers (2013)

Doctoral Committee Chair

Ulak, M. B., graduate. (2018).
Kocatepe, A., graduate. (2017).
Ghorbanzadeh, M., doctoral candidate.
Karaer, A., doctoral candidate.
Koloushani, M., doctoral candidate.

Doctoral Committee Cochair

Chen, M., graduate. (2020).
Konila Sriram, L. M., graduate. (2020).

Doctoral Committee Member

Pasha, J., graduate. (2020).
Giroux, R. R., graduate. (2020).
Ruhazwe, E., graduate. (2020).
Abioye, O., graduate. (2019).
Kakareko, G., graduate. (2019).
Kavoosi, M., graduate. (2019).
Masaki, J., graduate. (2019).
Cordova Guillen, J. D., graduate. (2019).
Gilanifar, M., graduate. (2019).
Kidando, E. Y., graduate. (2019).
Mafi, S., graduate. (2019).
Twumasi-Boakye, R., graduate. (2018).
Alabdouli, K., graduate. (2015).
Mtoi, E. T., graduate. (2015).
Brown, K., doctoral candidate.
Cole, N., doctoral candidate.
Alinejad, N., doctoral student.
Vijayan, L., doctoral student.

Doctoral Committee University Representative

Xu, K., doctoral candidate.
Islam, M. M., doctoral student.
Shohan, M. J. A., doctoral student.

Master's Committee Chair

Li, W., graduate. (2020).
Karabag, H. H., graduate. (2019).
Ozel, H., graduate. (2015).
Vemulapalli, S. S., graduate. (2015).
Burns, S., student.

Master's Committee Cochair

McDugle, R., graduate. (2018).
Omidvar, A., graduate. (2016).

Master's Committee Member

Brown, K., graduate. (2018).
Adegbulugbe, O. T., graduate. (2018).
Kadeha, C. F., graduate. (2018).
Sanusi, F. B., graduate. (2018).
Theophilus, O. P., graduate. (2018).
Baloglu, A., graduate. (2018).
Chen, M., graduate. (2017).
Chityala, S., graduate. (2017).
Xu, R., graduate. (2016).
Masaki, J. E., graduate. (2016).
Vasquez Maldonado, P. G., graduate. (2016).

Supervision of Student Research Not Related to Thesis or Dissertation

Chang, A. (Sep 2019–Apr 2020).
Acebes del Castillo, Volga (Sep 2018–Apr 2019).
Mank, E. (Sep 2018–Apr 2019).
Byrd, M. (Sep 2016–Mar 2017).
Brown, N. (Aug 2015–May 2016).
Pennington, M. (Sep 2014–May 2016).

Guest Lecturer

Ozguven, E. E. (2009–2012). *Transportation engineering related software (CUBE, TransCAD, Paramics, MATLAB) teaching*. Rutgers University.

Research and Original Creative Work

The objective of my research studies is to establish a nationally and internationally recognized multi-disciplinary program that contributes to the problem of providing accessible, safe and smart transportation for the whole segments of the population, which is one of the grand challenges of our modern age. The path to such resilient transportation operations is inherently complex and

multi-dimensional, and lies at the boundary between various fields of science and engineering. As such, I have established an integrated research and education program that strives to address ever growing mobility, safety, accessibility and resiliency problems in the context of smart infrastructure and cities. I have been focusing on investigating the relationships, interdependencies and dependencies among different infrastructure networks in the State of Florida, utilizing my academic research in transportation engineering, and background in industrial engineering and optimization. This investigation focuses on the simultaneous and interdependent movements of people including the vulnerable populations such as aging people, and the commodities and services that meet their needs. During this process, I have established long-lasting multi-disciplinary collaborations with researchers from psychology, sociology, public policy, communications, urban planning, geography, civil, electrical and industrial engineering, and created a research program which draws from various engineering and science methods including optimization, econometrics, statistical analysis, human factors, machine learning, traffic and transportation engineering and geography. As a PI and Co-PI, I was able to secure grants from the U.S. Department of Transportation (\$4,209,600), National Science Foundation (A total of \$733,122) and Florida Department of Transportation (A total of \$928,455). I am also a member of the Tier 1 University Transportation Center (Center for Accessibility and Safety for an Aging Population-ASAP Center) and the Traffic Engineering Laboratory, and I am the associate director for the Collaborative Intelligent Infrastructure Laboratory (CI2 Lab) at the FAMU-FSU College of Engineering. I am also affiliated with the Institute for Successful Longevity, an internationally recognized research center at the Florida State University.

Program of Research and/or Focus of Original Creative Work

My general research interests include emergency transportation operations, modeling of transportation networks, transportation accessibility and safety, connected vehicles, intelligent transportation systems, smart cities and urban mobility. These research directions are critical not only for the department and the university but also for the State of Florida, nationally and internationally, as my research also focuses on the transportation safety and accessibility needs of at-risk or vulnerable populations such as the aging demographic.

Publications

Refereed Journal Articles

- Abioye, O., Dulebenets, M., Pasha, J., Kavooosi, M., Moses, R., Sobanjo, J., & Ozguven, E. E. (in press). Accident and Hazard Prediction Models for Highway-Rail Grade Crossings: A State-of-the-Practice Review for the United States. *Railway Engineering Science*, 20 pages.
- Ulak, M. B., Madhavi, K. S. L., Kocatepe, A., Arghandeh, R., & Ozguven, E. E. (in press). Resilience Characterization for Multi-Layer Infrastructure Networks. *IEEE Intelligent Transportation Systems Magazine*, 10 pages.
- Chitiyala, S., Sobanjo, J., Ozguven, E. E., Sando, T., & Twumasi-Boakye, R. (in press). Driver Behavior at a Freeway Merge in Mixed Traffic of Conventional and Connected-Autonomous Vehicles. *Transportation Research Record*, 16 pages.

- Abioye, O., Dulebenets, M., Ozguven, E. E., Moses, R., Boot, W., & Sando, T. (in press). Assessing Perceived Driving Difficulties under Emergency Evacuation for Vulnerable Population Groups. *Socio-Economic Planning Sciences*, 20 pages.
- Ghorbanzadeh, M., Ozguven, E. E., Tenney, C., Leonarczyk, Z., Jones, F., & Mardis, M. (in press). Natural Disaster Accessibility of Small and Rural Libraries in Northwest Florida. *Public Library Quarterly*, 19 pages.
- Kidando, E., Karaer, A., Kutela, B., Kitali, A., Moses, R., Ozguven, E. E., & Sando, T. (in press). A Novel Approach for Calibrating Freeway Highway Multi-Regimes Fundamental Diagram. *Transportation Research Record*, 15 pages.
- Kakareko, G., Jung, S., & Ozguven, E. E. (in press). Estimation of Tree Failure Consequences due to High Winds using Convolutional Neural Networks. *International Journal of Remote Sensing*, 18 pages.
- Ulak, M. B., Yazici, A., & Ozguven, E. E. (2020). A Prescriptive Model to Assess the Socio-Demographics Impacts of Resilience Improvements on Power Networks. *International Journal of Disaster Risk Reduction*, 51, Article 101777. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2212420920312796>
doi:doi.org/10.1016/j.ijdr.2020.101777
- Karabag, H., Ulak, M. B., Mjogolo, F., Kidando, E., Ozguven, E. E., Sando, T., & Moses, R. (2020). Estimating the impact of Green Light Optimized Speed Advisory (GLOSA) on exhaust emissions through the integration of VISSIM and MOVES. *Advances in Transportation Studies*, 52, 5-22. Retrieved from <http://www.atsinternationaljournal.com/index.php/2020-issues/lii-november-2020/1160-estimating-the-impact-of-green-light-optimized-speed-advisory-glosa-on-exhaust-emissions-through-the-integration-of->
- Diwanji, V., Ulak, M. B., Arpan, L., Hou, J., Ozguven, E. E., & Arghandeh, R. (2020). Understanding citizens' communication channel preferences during natural disasters: A synchronicity-based, mixed-methods exploration using survey and geospatial analysis. *International Journal of Disaster Risk Reduction*, 47, Article 101646. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2212420920302508>
doi:10.1016/j.ijdr.2020.101646
- Huang, W., Teng, F., Ginis, I., Ullman, D., & Ozguven, E. E. (2020). Rainfall Runoff and Flood Simulations for Hurricane Impacts on Woonasquatucket River, USA. *International Journal of Structural and Civil Engineering Research*, 9(3), 239-244. Retrieved from <http://www.ijscer.com/uploadfile/2020/0722/20200722104443770.pdf>
doi:10.18178/ijscer.9.3.239-244
- Kidando, E., Kitali, A., Moses, R., & Ozguven, E. E. (2020). Real-time visualization of operational performance measures of arterial highway using open crowdsourced data. *Advances in Transportation Studies*, LI, 47-62. Retrieved from

<http://www.atsinternationaljournal.com/index.php/2020-issues/li-july-2020/1139-real-time-visualization-of-operational-performance-measures-of-arterial-highway-using-open-crowdsourced-data>

- Yang, J., Huang, W., & Ozguven, E. E. (2020). Effects of Population Density and Traffic Flow on Covid-19 Disasters in Florida. *Advancements in Civil Engineering & Technology*, 4(2), 1-3. Retrieved from <https://crimsonpublishers.com/acet/pdf/ACET.000585.pdf> doi:10.31031/ACET.2020.04.000585
- Koloushani, M., Fatemi, A., Tabibi, M., & Ozguven, E. E. (2020). Introducing Automatic Control Method of Safety Standards in Horizontal Curves by Processing Images Taken by Mobile Mapping System. *Pertanika Journal of Social Sciences & Humanities*, 28(2), 1567-1579. Retrieved from [http://www.pertanika.upm.edu.my/Pertanika%20PAPERS/JSSH%20Vol.%2028%20\(2\)%20Jun.%202020/49%20JSSH-2144-2017.pdf](http://www.pertanika.upm.edu.my/Pertanika%20PAPERS/JSSH%20Vol.%2028%20(2)%20Jun.%202020/49%20JSSH-2144-2017.pdf)
- Gilanifar, M., Wang, H., Sriram, L. M. K., Ozguven, E. E., & Arghandeh, R. (2020). Multi-Task Bayesian Spatiotemporal Gaussian Processes for Short-term Load Forecasting. *IEEE Transactions on Industrial Electronics*, 67(6), 5132-5143. Retrieved from <https://ieeexplore.ieee.org/document/8765623> doi:10.1109/TIE.2019.2928275
- Ghorbanzadeh, M., Effati, M., Gilanifar, M., & Ozguven, E. E. (2020). Subway Station Site Selection Using GIS-Based Multi-Criteria Decision-Making: A Case Study in a Developing Country. *Computational Research Progress in Applied Science & Engineering*, 6(2), 60-69. Retrieved from <http://www.crpase.com/archive/CRPASE-Vol-06-issue-02-63046429.pdf> doi:10.13140/RG.2.2.35991.52642
- Kocatepe, A., Ozkul, S., Ozguven, E. E., Sobanjo, J., & Moses, R. (2020). The Value of Freight Accessibility: A Spatial Analysis in the Tampa Bay Region. *Applied Spatial Analysis and Policy*, 13(2), 527-546. Retrieved from <https://link.springer.com/article/10.1007/s12061-019-09314-6> doi:10.1007/s12061-019-09314-6
- Pasha, J., Dulebenets, M., Abioye, O., Kavooosi, M., Moses, R., Sobanjo, J., & Ozguven, E. E. (2020). A Comprehensive Assessment of the Existing Accident and Hazard Prediction Models for the Highway-Rail Grade Crossings in the State of Florida. *Sustainability*, 12(10), Article 4291. Retrieved from <https://www.mdpi.com/2071-1050/12/10/4291> doi:10.3390/su12104291
- Sanusi, F., Choi, J., Ulak, M., Ozguven, E. E., & Abichou, T. (2020). A Metadata-Based Analysis of Physical-Social-Civic Systems to Develop the Knowledge Base for Hurricane Shelter Planning. *ASCE Journal of Management Engineering*, 36(5). Retrieved from <https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29ME.1943-5479.0000802> doi:10.1061/(ASCE)ME.1943-5479.0000802

- Hou, J., Arpan, L., Wu, Y., Feiock, R., Ozguven, E. E., & Arghandeh, R. (2020). The Road toward Smart Cities: A Study of Citizens' Acceptance of Mobile Applications for City Services. *Energies*, *13*(10), Article 2496. Retrieved from <https://www.mdpi.com/1996-1073/13/10/2496/htm> doi:10.3390/en13102496
- Ghorbanzadeh, M., Kim, K., Ozguven, E. E., & Horner, M. (2020). A Comparative Analysis of Transportation-based Accessibility to Mental Health Services. *Transportation Research Part D: Transport and Environment*, *81*, Article 102278. Retrieved from <https://www.sciencedirect.com/science/article/pii/S136192091931466X> doi:10.1016/j.trd.2020.102278
- Kavoosi, M., Dulebenets, M., Pasha, J., Abioye, O., Moses, R., Sobanjo, J., & Ozguven, E. E. (2020). Development of Algorithms for Effective Resource Allocation among Highway-Rail Grade Crossings: A Case Study for the State of Florida. *Energies*, *13*(6), Article 1419. Retrieved from <https://www.mdpi.com/1996-1073/13/6/1419> doi:10.3390/en13061419
- Ulak, M., Karabag, H., Ghorbanzadeh, M., Ozguven, E. E., Moses, R., & Dulebenets, M. (2020). Development of Safety Performance Functions for Restricted Crossing U-Turn (RCUT) Intersections. *ASCE Journal of Transportation Engineering*, *146*(6), Article 04020038. Retrieved from <https://ascelibrary.org/doi/full/10.1061/JTEPBS.0000346> doi:10.1061/JTEPBS.0000346
- Dulebenets, M., Pasha, J., Kavoosi, M., Abioye, O., Ozguven, E. E., Moses, R., Boot, W., & Sando, T. (2020). Multiobjective Optimization Model for Emergency Evacuation Planning in Geographical Locations with Vulnerable Population Groups. *ASCE Journal of Management Engineering*, *36*(2), Article 04019043. Retrieved from <https://ascelibrary.org/doi/10.1061/%28ASCE%29ME.1943-5479.0000730> doi:10.1061/(ASCE) ME.1943-5479.0000730
- Ghorbanzadeh, M., Koloushani, M., Ulak, M., Ozguven, E. E., & Arghandeh, R. (2020). Statistical and Spatial Analysis of Hurricane-induced Roadway Closures and Power Outages. *Energies*, *13*(5), Article 1098. Retrieved from <https://www.mdpi.com/1996-1073/13/5/1098> doi:10.3390/en13051098
- Alisan, O., Ghorbanzadeh, M., Ulak, M., Kocatepe, A., Ozguven, E. E., Horner, M., & Huang, W. (2020). Extending Interdiction and Median Models to Identify Critical Hurricane Shelters. *International Journal of Disaster Risk Reduction*, *43*, Article 101380. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2212420919303528> doi:10.1016/j.ijdr.2019.101380
- Gilanifar, M., Cordova, J., Wang, H., Ozguven, E. E., Stifter, M., Strasser, T., & Arghandeh, R. (2020). Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *IEEE Transactions on Smart Grid*, *11*(1), 786-796. Retrieved from <https://ieeexplore.ieee.org/document/8823979> doi:10.1109/TSG.2019.2938989

- Kidando, E., Moses, R., Sando, T., & Ozguven, E. E. (2019). An application of Bayesian multilevel model to evaluate variations in stochastic and dynamic transition of traffic conditions. *Journal of Modern Transportation*, 27(4), 235-249. doi:10.1007/s40534-019-00199-2
- Sriram, L. M. K., Ulak, M., Ozguven, E. E., & Arghandeh, R. (2019). Multi-Network Vulnerability Causal Model for Infrastructure Co-Resilience. *IEEE Access*, 7(1), 35344-35358. Retrieved from <https://ieeexplore.ieee.org/document/8664572?arnumber=8664572> doi:10.1109/ACCESS.2019.2904457
- Gilanifar, M., Wang, H., Ozguven, E. E., Zhou, Y., & Arghandeh, R. (2019). Bayesian Spatiotemporal Gaussian Process for Short-term Load Forecasting Using Combined Transportation and Electricity Data. *ACM Transactions on Cyber-Physical Systems*, 4(1), Article No. 2. Retrieved from <https://dl.acm.org/citation.cfm?id=3300185> doi:10.1145/3300185
- Ulak, M. B., Ozguven, E. E., Vanli, A., & Horner, M. (2019). Exploring Alternative Spatial Weights to Detect Crash Hotspots. *Computers, Environment and Urban Systems*, 78, Article 101398. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0198971519302340> doi:10.1016/j.compenvurbsys.2019.101398
- Ulak, M. B., Ozguven, E. E., Moses, R., Sando, T., Boot, W., Abdelrazig, Y., & Sobanjo, J. (2019). Assessment of Traffic Performance Measures and Safety Based on Driver Age and Experience: A Microsimulation Based Analysis for an Unsignalized T-intersection. *Journal of Traffic and Transportation Engineering*, 6(5), 455-469. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2095756417305962> doi:10.1016/j.jtte.2018.05.004
- Ulak, M. B., Kocatepe, A., Ozguven, E. E., & Horner, M. (2019). How far from home do crashes occur? A network based analysis. *Safety Science*, 118, 298-308. Retrieved from <https://www.sciencedirect.com/science/article/pii/S092575351930284X> doi:10.1016/j.ssci.2019.05.028
- Kidando, E., Moses, R., Ozguven, E. E., & Sando, T. (2019). Incorporating Travel Time Reliability in Predicting the Likelihood of Severe Crashes on Arterial Highways Using Non-parametric Random-Effect Regression. *Journal of Traffic and Transportation Engineering*, 6(5), 470-481. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2095756417305044> doi:10.1016/j.jtte.2018.04.003
- Cordova, J., Sriram, K. L., Kocatepe, A., Zhou, Y., Ozguven, E. E., & Arghandeh, R. (2019). Combined Electricity and Traffic Short-Term Load Forecasting Using Bundled Causality Engine. *IEEE Transactions in Intelligent Transportation Systems*, 20(9), 3448-3458.

Retrieved from <https://ieeexplore.ieee.org/document/8551280>
doi:10.1109/TITS.2018.2876871

- Douglas, R., Kocatepe, A., Barrett, A., Ozguven, E. E., & Gumber, C. (2019). Evacuating People and their Pets: Older Floridians' Need for and Proximity to Pet-friendly Shelters. *Journal of Gerontology: Social Sciences*, 74(6), 1032-1040. Retrieved from <https://academic.oup.com/psychsocgerontology/article-abstract/74/6/1032/4344947>
doi:10.1093/geronb/gbx119
- Dulebenets, M., Pasha, J., Abioye, O., Kavooosi, M., Ozguven, E. E., Moses, R., Boot, W., & Sando, T. (2019). Exact and Heuristic Solution Algorithms for Efficient Emergency Evacuation in Areas with Vulnerable Populations. *International Journal of Disaster Risk Reduction*, 39, Article 101114. Retrieved from <https://www.sciencedirect.com/science/article/pii/S221242091930010X>
doi:10.1016/j.ijdr.2019.101114
- Nicholson, D., Vanli, A., Jung, S., & Ozguven, E. E. (2019). A Spatial Regression and Clustering Method for Developing Place-Specific Social Vulnerability Indices using Census and Social Media Data. *International Journal of Disaster Risk Reduction*, 38, Article 101224. Retrieved from <https://www.sciencedirect.com/science/article/pii/S2212420919304376>
doi:10.1016/j.ijdr.2019.101224
- Vanli, A., Giroux, R., Ozguven, E. E., & Pignatiello, J. (2019). Monitoring of Poisson Count Data Time Series: Cumulative Sum Change Detection in Poisson Integer Valued GARCH models. *Quality Engineering*, 31(3), 439-452. Retrieved from <https://www.tandfonline.com/doi/full/10.1080/08982112.2018.1508696>
doi:doi.org/10.1080/08982112.2018.1508696
- Kocatepe, A., Ulak, M., Ozguven, E. E., & Horner, M. (2019). Who might be affected by crashes? Identifying areas susceptible to crash injury risk and their major contributing factors. *Transportmetrica A: Transport Science*, 15(2), 1278-1305. Retrieved from <https://www.tandfonline.com/doi/full/10.1080/23249935.2019.1581854>
doi:10.1080/23249935.2019.1581854
- Kidando, E., Moses, R., Sando, T., & Ozguven, E. E. (2019). Assessment of Factors Associated with Travel Time Reliability and Prediction: An Empirical Analysis Using Probabilistic Reasoning Approach. *Transportation Planning and Technology*, 42(4), 309-323. Retrieved from <https://www.tandfonline.com/doi/full/10.1080/03081060.2019.1600239>
doi:doi.org/10.1080/03081060.2019.1600239

- Mafi, S., Abdelrazig, Y., Amirinia, G., Kocatepe, A., Ozguven, E. E., & Ulak, M. (2019). Investigating Exposure of the Population to Crash Injury Using Spatiotemporal Analysis: A Case Study in Florida. *Applied Geography*, *104*, 42-55. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0143622818308968>
doi:doi.org/10.1016/j.apgeog.2019.02.001
- Sriram, L. M. K., Gilanifar, M., Zhou, Y., Ozguven, E. E., & Arghandeh, R. (2019). Causal Markov Elman Network for Load Forecasting in Multi Network Systems. *IEEE Transactions on Industrial Electronics*, *66*(2), 1434-1442. Retrieved from <https://ieeexplore.ieee.org/document/8437162?arnumber=8437162>
doi:10.1109/TIE.2018.2851977
- Dulebenets, M., Abioye, O., Ozguven, E. E., Moses, R., Boot, W., & Sando, T. (2019). Development of Statistical Models for Improving Efficiency of Emergency Evacuation in Areas with Vulnerable Population. *Reliability Engineering and Systems Safety*, *182*, 233-249. Retrieved from <https://www.sciencedirect.com/science/article/pii/S095183201830437X>
doi:10.1016/j.ress.2018.09.021
- Kocatepe, A., Ulak, M. B., Kakareko, G., Ozguven, E. E., Jung, S., & Arghandeh, R. (2019). Measuring the Accessibility of Critical Facilities in the Presence of Hurricane-related Roadway Closures and An Approach for Predicting Future Roadway Disruptions. *Natural Hazards*, *95*(3), 615-635. Retrieved from <https://link.springer.com/article/10.1007/s11069-018-3507-5>
doi:doi.org/10.1007/s11069-018-3507-5
- Kidando, E., Moses, R., Sando, T., & Ozguven, E. E. (2018). Evaluating Recurring Traffic Congestion Using Change Point Regression and Random Variation Markov Structured Model. *Transportation Research Record*, *2672*(20), 63-74. Retrieved from <https://journals.sagepub.com/doi/full/10.1177/0361198118787987>
doi:10.1177/0361198118787987
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Nonrefereed Reports

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Nonrefereed Newsletter Articles

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- Ozguven, E. E. (2018, September). Effective sheltering, saving lives: How to evacuate the elderly in hurricanes. *Orlando Sentinel*, 1-x. Retrieved from
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- Ozguven, E. E. (2018, September). Hurricane preparations: No senior left behind. *The Augusta Chronicle*, 1-x. Retrieved from <http://www.augustachronicle.com/opinion/20180911/column-hurricane-preparations-no-senior-left-behind>
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- Ozguven, E. E. (2017, November). Lessons can be learned in evacuating, sheltering older adults. *Tallahassee Democrat*, 1-x. Retrieved from <http://www.tallahassee.com/story/life/wellness/2017/11/27/lessons-can-learned-evacuating-sheltering-older-adults/897775001/>
- Ozguven, E. E. (2017, October). Lessons to be learned about evacuating and sheltering older adults. *Tampa Bay News*, 1-x. Retrieved from <http://www.tampabay.com/opinion/columns/column-lessons-to-be-learned-about-evacuating-and-sheltering-older-adults/2342489>

Presentations

Refereed Papers at Conferences

- Ulak, M. B., Yazici, M. A., Ozguven, E. E., Vanli, A., & Arghandeh, R. (presented 2019, November). *Power Resilience Assessment from Physical and Socio-Demographic Perspectives*. Paper presented at 4th International Conference on System Reliability and Safety, IEEE, Rome, Italy. (International) Retrieved from <https://ieeexplore.ieee.org/document/8987673>
- Huang, W., Ozguven, E. E., Teng, F., Ginis, I., & Ullman, D. (presented 2019, November). *Rainfall Runoff and Flood Simulations for Hurricane Impacts on Woonasquatucket River, USA*. Paper presented at 2019 8th International Conference on Civil Engineering (ICCEN 2019), Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEES), Paris, France. (International)
- Diwanji, V., Arpan, L., Ulak, M. B., Hou, J., & Ozguven, E. E. (presented 2019, November). *Revisiting Communication during Disasters: A Synchronicity-based, Mixed-methods Exploration using Survey and Geospatial Analysis*. Paper presented at NCA 105th Annual Convention, National Communication Association, Baltimore, MD, USA. (International)
- Kidando, E., Karaer, A., Kutela, B., Kitali, A., Moses, R., Ozguven, E. E., & Sando, T. (presented 2019, October). *A Novel Approach for Calibrating Freeway Highway Multi-regimes Fundamental Diagram*. Paper presented at Transportation Research

Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C.
(International)

Kavoosi, M., Dulebenets, M., Pasha, J., Abioye, O., Moses, R., Sobanjo, J., & Ozguven, E. E. (presented 2019, October). *An Optimization Approach for Selection of Countermeasures to Improve Safety at the Highway-Rail Grade Crossings in Florida*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Chen, M., Karaer, A., Ozguven, E. E., Abichou, T., Arghandeh, R., & Nienhius, J. (presented 2019, October). *Developing City-wide Hurricane Risk Maps using Real-life Data on Infrastructure, Vegetation and Weather: A GIS-based Case Study in Northwest Florida*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Chitiyala, S., Sobanjo, J., Ozguven, E. E., Sando, T., & Twumasi-Boakye, R. (presented 2019, October). *Driver Behavior at a Freeway Merge in Mixed Traffic of Conventional and Connected-Autonomous Vehicles*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Karabag, H., Ulak, M. B., Mjogolo, F., Kidando, E., Ozguven, E. E., Sando, T., & Moses, R. (presented 2019, October). *Estimating the Impact of Green Light Optimized Speed Advisory (GLOSA) on Exhaust Emissions through the Integration of VISSIM and MOVES*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Pasha, J., Dulebenets, M., Abioye, O., Kavoosi, M., Moses, R., Sobanjo, J., & Ozguven, E. E. (presented 2019, October). *Evaluation of the Accident and Hazard Prediction Models for Prioritization of the Highway-Rail Grade Crossing Safety Projects in Florida*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Alisan, O., Ghorbanzadeh, M., Ulak, M., Kocatepe, A., Ozguven, E. E., Horner, M., & Huang, W. (presented 2019, October). *Identifying Critical Hurricane Shelters and Alternatives in Case of Interdiction: A Case Study in Southeast Florida*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Ghorbanzadeh, M., Ozguven, E. E., Tenney, C., Leonarczyk, Z., Jones, F., & Mardis, M. (presented 2019, October). *Transportation Accessibility Assessment of Critical Facilities: A GIS-based Case Study in Northwest Florida Focusing on Libraries and Hospitals*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Ulak, M., Kocatepe, A., Ozguven, E. E., & Kumar, A. (presented 2019, January). *Are There More Pedestrian-involved Crashes around Bus Stops?: The Development of a Safety*

- Index*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Sriram, L. K. S., Ulak, M., Ozguven, E. E., & Arghandeh, R. (presented 2019, January). *Casualty-based Combined Power and Transportation Resilience (Co-Resilience) during Hurricanes*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Ulak, M., Ozguven, E. E., Horner, M., Weaver, L., Puente, J., Crute, J., Smith, D., Duncan, M., & Whitton, E. (presented 2019, January). *Demographic and Socioeconomic Analysis of Potential Sunrail Transit System Riders in Orlando, Florida*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Delebenets, M., Abioye, O., Pasha, J., Kavosi, M., Ozguven, E. E., Moses, R., Boot, W., & Sando, T. (presented 2019, January). *Development of Solution Algorithms for Efficient Emergency Evacuation Planning*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Kidando, E., Moses, R., Sando, T., & Ozguven, E. E. (presented 2019, January). *Disparity Effects Associated with Lateral Lane Locations and Days of the Week Influence on the Dynamic Transition of Traffic Conditions*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Ruhazwe, E., Moses, R., Kadeha, C., & Ozguven, E. E. (presented 2019, January). *Field Determination of Gap Acceptance Parameters for Florida Roundabouts*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Kadeha, C., Moses, R., Ruhazwe, E., & Ozguven, E. E. (presented 2019, January). *Influence of Exiting Vehicles on Roundabouts Gap Acceptance Parameters and Capacity: Method Comparison*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Sanusi, F., Sobanjo, J., Ozguven, E. E., Sando, T., & Abdelrazig, Y. (presented 2019, January). *Measuring Impacts of Connected and Automated Vehicles on Freeway Work Zones*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Hou, J., Tang, T., Catherine, A., Wu, Y., Arghandeh, R., & Ozguven, E. E. (presented 2018, November). *The Road toward Smart Cities: A Focus Group Study on Citizens' Perceptions and Use of Mobile Application for City Management*. Paper presented at 104th NCA Annual Convention, National Communication Association, Salt Lake City, UT. (International)

- Alisan, O., Tuydes-Yaman, H., Kocatepe, A., & Ozguven, E. E. (presented 2018, January). *Performance and Cost of Cross-County Collaboration in Special Needs Shelter (SpNS) Planning*. Paper presented at Transportation Research Board's 2018 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Kidando, E., Moses, R., Sando, T., & Ozguven, E. E. (presented 2018, January). *Probabilistic Inference and Prediction of Travel Time Reliability: Empirical Analysis of Associated Factors*. Paper presented at Transportation Research Board's 2018 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Twumasi-Boakye, R., Sobanjo, J., Inkoom, S., & Ozguven, E. E. (presented 2018, January). *Senior Community Resilience with a Focus on Critical Transportation Infrastructures: An Accessibility-based Approach to Healthcare*. Paper presented at Transportation Research Board's 2018 Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Omidvar, A., Ozguven, E. E., Vanli, A., & Tavakkoli-Moghaddam, R. (presented 2017, July). *A Two-Phase Safe Vehicle Routing and Scheduling Problem: Formulations and Solution Algorithms*. Paper presented at Transportation Science and Logistics Conference, INFORMS, Chicago, Illinois, USA. (International)
- Kocatepe, A., Ulak, M. B., Lores, J., Ozguven, E. E., & Yazici, M. A. (presented 2017, July). *Assessing the Factors that Affect the Public Engagement with Department of Transportation Twitter Accounts*. Paper presented at The International Symposium on Location-Based Social Media Data and Tracking Data, ICA Commission on Geospatial Analysis and Modeling & ICA Commission on Location-based Services, Washington, D.C., USA. (International)
- Moses, R., Kidando, E., Abdelrazig, Y., & Ozguven, E. E. (presented 2016, November). *Travel Time Reliability on Elderly Drivers Crash Severity*. Paper presented at 18th International Conference on Civil, Construction and Safety Engineering, World Academy of Science, Engineering and Technology, Singapore, SG. (International)
- Ozel, H., Ozguven, E. E., Kocatepe, A., & Horner, M. (presented 2016, January). *An Aging Population-focused Accessibility Assessment of Multi-modal Facilities in Florida*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)
- Omidvar, A., Vanli, A., Ozguven, E. E., Moses, R., Barrett, A., Kocatepe, A., Ozel, H., Gumber, C., & Sando, T. (presented 2016, January). *Effect of Traffic Patterns on the Frequency of Aging Driver-involved Highway Crashes: A Case Study on the Interstate-95 in Florida*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)
- Gumber, C., Barrett, A., Ozguven, E. E., Moses, R., Vanli, A., Kocatepe, A., Ozel, H., Omidvar, A., & Sando, T. (presented 2016, January). *Explaining Gender Differences in*

Self-regulated Driving: What Roles do Health Limitations and Transportation Alternatives Play? Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)

Marcelin, J. M., Horner, M., Ozguven, E. E., & Kocatepe, A. (presented 2016, January). *How Do Disaster Relief Needs Compare between Aging and the General Population? A Spatial Network Optimization Analysis of Hurricane Relief Facility Locations*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)

Kocatepe, A., Lores, J., Ozguven, E. E., & Yazici, M. A. (presented 2016, January). *Measuring the Reach and Influence of DOT Twitter Accounts: A Case Study for Florida and New York*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)

Abdelrazig, Y., Doczy, R., Boot, W., Ozguven, E. E., & Moses, R. (presented 2016, January). *Spatial Context Roadway Safety Analysis for the Aging Population: A Hybrid 3-Dimensional Visualization and Human Factors Simulation Approach*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International) Retrieved from <https://trid.trb.org/view/1393475>

Giroux, R., Vanli, A., & Ozguven, E. E. (presented 2016, January). *Spatiotemporal Crash Rate Monitoring for Improving Highway Safety*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International) Retrieved from <https://trid.trb.org/view/1394118>

Nonrefereed Papers at Conferences

Burns, S., Ghorbanzadeh, M., Ozguven, E. E., & Huang, W. (accepted). *Geographical Information Systems-based Evacuation Analysis of Vulnerable Communities in the Florida Panhandle: A Case Study of Hurricane Michael*. Paper to be presented at American Association of Geographers Annual Meeting, American Association of Geographers, Denver, CO. (National)

Burns, S., Ghorbanzadeh, M., & Ozguven, E. E. (presented 2019, October). *Geographical Information Systems-based Evacuation Analysis of Vulnerable Communities in the Florida Panhandle: A Case Study of Hurricane Michael*. Paper presented at Transportation Research Board's 99th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Asare-Akuffo, F., Mikaelian, L., Kim, K., Horner, M., Ozguven, E. E., & Ulak, M. (presented 2019, January). *Differential Accessibility to Primary Care Physicians: Analyzing the Spatial Structure of Health Opportunities*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Yildirim, M., & Ozguven, E. E. (presented 2019, January). *Toward Smarter Transportation in Developing Countries: An Assessment of the Successful Smart City Models Based on the Utilization of Big Transportation Data*. Paper presented at Transportation Research Board's 2019 Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Deng, O., Mullings, A., Kovankaya, Y., Byrd, M., Ulak, M., Kocatepe, A., & Ozguven, E. E. (presented 2018, January). *Geographic Information System-Based Impact Analysis of Hurricane Hermine: Case Study in Tallahassee, Florida*. Paper presented at Transportation Research Board's 97th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Bommineni, V., Zhou, V., Ponnaluri, S., Ulak, M. B., Kocatepe, A., & Ozguven, E. E. (presented 2017, January). *A GIS-based Comparative Livability Analysis between Florida Counties with a Focus on 65+ Cohort*. Paper presented at Transportation Research Board's 96th Annual Meeting, Transportation Research Board, Washington, D.C. (International)

Dyer, B., Callegari, N., Ulak, M. B., Ozel, H., & Ozguven, E. E. (presented 2016, January). *Evaluating Transportation Accessibility to Healthcare among Cancer Populations in Florida*. Paper presented at Transportation Research Board 2016 Annual Meeting, Transportation Research Board, Washington, D.C., USA. (International)

Nonrefereed Papers at Symposia

Ozguven, E. E. (presented 2016, September). *Integrated Assessment of Safety, Accessibility and Reliability for Aging Roadway Users: Case Studies in Florida*. In David Eby, James Sayer, and Jack Hu (Chair), *Safe Transportation & Aging Symposium*. Symposium conducted at the meeting of Advancing Transportation Leadership and Safety (ATLAS), Ann Harbor, Michigan. (International)

Invited Keynote and Plenary Presentations at Conferences

Ozguven, E. E. (presented 2012, February). *Case Study Based Evaluation of a Stochastic Multi-Commodity Emergency Inventory Management Model*. Plenary presentation at INFORMS New Jersey Chapter Meeting, INFORMS, New Brunswick, NJ. (State)

Invited Keynote and Plenary Presentations at Symposia

Ozguven, E. E. (presented 2015, September). GIS-based Crash Analysis with a Focus on an Aging Population: A Case Study in Florida. Plenary presentation in *Safe Mobility for Life Coalition Winter Quarterly Meeting*. Symposium conducted at the meeting of Safe Mobility for Life Coalition, Tallahassee, Florida. (State)

Refereed Presentations at Conferences

Rugminimamma, L., Huang, W., Ozguven, E. E., Yin, K., & Xu, S. (accepted). *Numerical Modeling of Storm Surges during Hurricane Michael in the Gulf of Mexico*. Presentation to be given at 14. International Conference on Public Finance and Public Policy, ICPFP, Rome, Italy. (International)

Kakareko, G., Jung, S., Ozguven, E. E., & Weresa, S. (presented 2017, March). *A New Approach for Road Closure Probability Estimation Caused By Hurricanes Winds*. Presentation at Engineering Mechanics Institute Conference, ASCE, San Diego, CA. (International)

Horner, M., Ozguven, E. E., Marcelin, J. M., & Kocatepe, A. (presented 2015, November). *A Spatial Optimization Modeling Approach for Special Needs Shelter Placement Serving the Aging Population: A Florida Case Study*. Presentation at 62nd Annual North American Meetings of the Regional Science Association International, North American Regional Science Council, Portland, OR, USA. (National)

Ozguven, E. E., Vanli, A., Barrett, A., Moses, R., Sando, T., Gumber, C., Kocatepe, A., Ozel, H., & Omidvar, A. (presented 2015, November). *Travel Time and Roadway Capacity Reliability for an Aging Population: The Development of a Model Integrating Roadway Traffic with Aging Adults' Driving Behavior*. Presentation at The Gerontological Society of America's 68th Annual Scientific Meeting, The Gerontological Society of America, Orlando, Florida. (International)

Ulak, M. B., Ozguven, E. E., & Kocatepe, A. (presented 2015, October). *GIS-based Identification and Evaluation of Significant Factors for Aging-Involved Crashes*. Poster presentation at 2015 Road Safety & Simulation International Conference, Southeastern Transportation Center, Orlando, Florida. (International)

Omidvar, A., Ozguven, E. E., Vanli, A., & Moses, R. (presented 2015, October). *Understanding the Factors Affecting Frequency and Severity of Aging-involved Accidents in Florida*. Poster presentation at 2015 Road Safety & Simulation International Conference, Southeastern Transportation Center, Orlando, Florida. (International)

Kocatepe, A., Ozguven, E. E., & Moses, R. (presented 2014, October). *Evaluation of Multi-Modal Evacuation Operations in the Aftermath of a Disaster*. Presentation at 11th International Congress on Advances in Civil Engineering- ACE 2014, Istanbul Technical University, Istanbul, Turkey. (International)

Ozguven, E. E., & Ozbay, K. (presented 2012, August). *An Integrated Inventory Management Framework for Emergency Operations*. Presentation at Second International Conference on Evacuation Modeling and Management, Northwestern University, Chicago, IL. (International)

Ozbay, K., Li, J., Yazici, M. A., Iyer, S., Ozguven, E. E., Carnegie, J. A., & Bartin, B. (presented 2012, August). *Pseudodynamic Assignment for Evacuation Modeling Procedure*. Presentation at Second International Conference on Evacuation Modeling and Management, Northwestern University, Chicago, IL. (International)

Nonrefereed Presentations at Conferences

Ghorbanzadeh, M., Ozguven, E. E., Tenney, C., Leonarczyk, Z., Jones, F., & Mardis, M. (presented 2020, March). *Accessibility of Libraries and Hospitals in Northwest Florida: A GIS-based Analysis with a Focus on Hurricanes*. Presentation at University Transportation Center (UTC) Conference for the Southeastern Region, Florida Atlantic University, Boca Raton, FL. (State)

Omidvar, A., Vanli, A., & Ozguven, E. E. (presented 2016, November). *Spatial-temporal Crash Severity Modeling For Aging-involved Crashes: A Case Of Interstate 95 In Florida*. Presentation at INFORMS Annual Meeting, INFORMS, Nashville, TN, USA. (International)

Kocatepe, A., Ozguven, E. E., Ozel, H., & Horner, M. (presented 2016, March). *Aging-focused Transportation Accessibility Assessment of Emergency Shelters: A DTA-based Application in Florida*. Presentation at 2016 National Evacuation Conference, The University of New Orleans, New Orleans, LA. (National)

Ozel, H., Ozguven, E. E., Kocatepe, A., & Ulak, M. B. (presented 2015, July). *Aging-focused Accessibility Assessment of Multi-modal Facilities towards Better Decision Making in Emergency Transportation Logistics*. Presentation at 27th European Conference on Operational Research, University of Strathclyde, Glasgow, UK. (International)

Kocatepe, A., Ozguven, E. E., & Lores, J. (presented 2015, July). *Exploring the Social Network-based Feasibility of Cloud Services for Travel Time Reliability with a Focus on Aging People*. Presentation at 27th European Conference on Operational Research, University of Strathclyde, Glasgow, UK. (International)

Ozel, H., Ozguven, E. E., & Kocatepe, A. (presented 2015, March). *A Spatial Analysis-based Approach for Airport Operations with a Focus on Aging Populations*. Poster presentation

at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Kocatepe, A., Ozguven, E. E., Horner, M., & Marcelin, J. M. (presented 2015, March). *An Aging Population Focused Evaluation of Evacuation Operations with a GIS-based Application in Florida*. Poster presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Vemulapalli, S. S., Ozguven, E. E., Sando, T., Abdelrazig, Y., & Moses, R. (presented 2015, March). *Analyzing Crash Clusters near Senior Destination Sites Using a GIS Approach*. Poster presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Ulak, M. B., Ozguven, E. E., & Kocatepe, A. (presented 2015, March). *GIS-based Identification and Evaluation of Significant Factors for Aging-Involved Crashes*. Poster presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Marcelin, J. M., Horner, M., Ozguven, E. E., & Kocatepe, A. (presented 2015, March). *How Do Disaster Relief Needs Compare between Aging and the General Population? A Spatial Network Optimization Analysis of Relief Facility Locations*. Poster presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Ozguven, E. E., Horner, M., Kocatepe, A., Marcelin, J. M., Abdelrazig, Y., Sando, T., & Moses, R. (presented 2015, March). *Needs Assessment for Multi-Modal Emergency Transportation Operations with a Focus on an Aging Population*. Presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The University of Alabama at Birmingham and Mississippi State University, Birmingham, AL. (Regional)

Kocatepe, A., Ozguven, E. E., & Vanli, A. (presented 2014, November). *A Capacity and Travel Time Reliability Analysis on Transportation Networks for Emergency Operations*. Presentation at INFORMS Annual Meeting, INFORMS, San Francisco, USA. (International)

Ozguven, E. E., & Ozbay, K. (presented 2014, November). *An Integrated Inventory Management Framework for Emergency Operations*. Presentation at INFORMS Annual Meeting, INFORMS, San Francisco, USA. (International)

- Giroux, R., Vanli, A., & Ozguven, E. E. (presented 2014, November). *Spatio-Temporal Monitoring for Highway Safety*. Presentation at INFORMS Annual Meeting, INFORMS, San Francisco, USA. (International)
- Ozguven, E. E., Horner, M., Kocatepe, A., Marcelin, J. M., Abdelrazig, Y., Sando, T., & Moses, R. (presented 2014, March). *Needs Assessment for Multi-Modal Emergency Transportation Operations with a Focus on an Aging Population*. Presentation at University Transportation Center (UTC) Conference for the Southeastern Region, The National Center for Transportation Systems Productivity and Management (NCTSPM), Atlanta, Georgia. (Regional)
- Ozguven, E. E. (presented 2011, January). *A Secure and Efficient Inventory Management System for Disasters*. Presentation at Doctoral Student Research in Transportation Modeling Workshop at the Transportation Research Board's 90th Annual Meeting, Transportation Research Board, Washington, D.C. (International)
- Ozguven, E. E., & Ozbay, K. (presented 2009, October). *A Secure and Efficient Emergency Management System for Disasters*. Presentation at INFORMS 2009 Annual Meeting, INFORMS, San Diego, CA. (International)
- Ozbay, K., Carnegie, J. A., Yazici, M. A., Ozguven, E. E., Bartin, B., & Li, J. (presented 2008, December). *Development of a Transportation Model for Planning Evacuations in Northern New Jersey*. Presentation at Eighth New Jersey Universities Homeland Security Research Consortium Symposium, Homeland Security, Princeton, NJ. (National)

Invited Workshops

- Ozguven, E. E. (2018, April). *Smart and Connected Communities (S&CC) and Aging Population*. Workshop delivered at Stony Brook University - National Science Foundation, Stony Brook, NY. (International)
- Ozguven, E. E. (2016, January). *Mobility and Accessibility for Post-Disaster Recovery: Social and Economic Resilience for Disadvantaged and Dislocated Populations*. Workshop delivered at Transportation Research Board 2016 Annual Meeting, Washington, D.C., USA. (International)

Invited Lectures and Readings of Original Work

- Ozguven, E. E., & Arghandeh, R. (2018, January). *Data from Science to Cities*. Delivered at Challenger Learning Center of Tallahassee, Challenger Learning Center, Tallahassee, FL. (Local)

Ozguven, E. E. (2011, December). *Analyzing Roadway Sections with respect to Traffic Capacity, Capacity Reliability and Emergency Evacuation Operations*. Delivered at Berkeley Transportation Systems, Berkeley, CA. (Local)

Information and Communication Technology

Computer Software Development

Ozbay, K., Ozguven, E. E., & Sertel, T. (2008). *Rutgers Intelligent Transportation Systems Inspection and Maintenance Software (RITSIMS)* [Computer software]. Trenton, NJ: New Jersey Department of Transportation. Retrieved from <http://www.rits.rutgers.edu/RITSIMS>

Contracts and Grants

Contracts and Grants Funded

Sobanjo, John O (Co-PI), Moses, Ren (Co-PI), Ozguven, Eren Erman (Co-PI), Dulebenets, Maxim (PI), & Pasha, Junayed (Co-PI). (Jun 2020–Dec 2021). *Improving Safety at Highway-Rail Grade Crossings in Florida while Maintaining Continuity of Passenger and Freight Flows: A Multi-Objective Approach*. Funded by Florida Department of Transportation. (BDV30 TWO 977-33). Total award \$215,000.

Ozguven, Eren Erman (PI), Piekalkiewicz, Ellen (Co-PI), & Tang, Tian (Co-PI). (Apr 2020–Mar 2023). *CoPe RCN: Resilient Rural Infrastructure*. Funded by National Science Foundation. (1940319). Total award \$426,376.

Moses, Ren (Co-PI), Ozguven, Eren Erman (PI), & Dulebenets, Maxim (Co-PI). (Oct 2019–Jan 2021). *Feasibility Analysis of Real-time Intersection Data Collection and Processing Using Drones*. Funded by Florida Department of Transportation. (BDV30 TWO 977-29). Total award \$209,232.

Huang, Wenrui (PI), & Ozguven, Eren Erman (Co-PI). (Sep 2018–Aug 2021). *ERC: Integrated Hazard and Traffic Modeling for Massive Evacuation in Florida under Uncertainty of Hurricane Track*. Funded by National Science Foundation. (1832068). Total award \$499,682.

Sobanjo, John O (Co-PI), Moses, Ren (Co-PI), Ozguven, Eren Erman (Co-PI), & Dulebenets, Maxim (PI). (Sep 2018–Feb 2020). *Development of the Optimization Model for Improving Safety at Rail Crossings in Florida*. Funded by Florida Department of Transportation. (BDV30 TWO 977-26). Total award \$202,126.

- Horner, Mark W (Co-PI), Duncan Jr, Michael Douglas (Co-PI), Ozguven, Eren Erman (Co-PI), & Smith, Dennis J (PI). (Feb 2018–Oct 2018). *MetroPlan Orlando SunRail TOD Ridership Study*. Funded by MetroPlan Orlando. (None). Total award \$153,161.
- Moses, Ren (PI), & Ozguven, Eren Erman (Co-PI). (Nov 2017–Jun 2021). *Evaluation Of Connected Vehicle Applications On Mahan Corridor, Phase I*. Funded by Florida Department of Transportation. (BDV30 TWO 977-23). Total award \$270,000.
- Boot, Walter (Co-PI), & Ozguven, Eren Erman (PI). (Sep 2017–Aug 2020). *SCC-RCN:One Bridge at a Time: Bridging the Digital Divide for the Well-Being of Aging Populations through Smart and Connected Communities*. Funded by State University of New York. (79217/1142110/2). Total award \$66,284.
- Moses, Ren (Co-PI), Ozguven, Eren Erman (PI), & Dulebenets, Maxim (Co-PI). (Feb 2017–May 2019). *Development of Safety Performance Functions for Restricted Crossing U-Turn (RCUT) Intersections*. Funded by Florida Department of Transportation. (BDV30 TWO 977-19). Total award \$264,886.
- Dulebenets, M., Ozguven, E. E., & Moses, R. (Jan 2017–Jul 2018). *A Comprehensive Assessment of Driver Characteristics for Efficient Emergency Evacuation in Areas with an Aging Population*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$110,110.
- Moses, Ren (Co-PI), Ozguven, Eren Erman (Co-PI), & Dulebenets, Maxim (PI). (Dec 2016–Oct 2017). *Establishment of Effective Control Factors to Achieve Federal Enforcement Consistency with the Highway Beautification Act*. Funded by Florida Department of Transportation. (BE288). Total award \$100,000.
- Moses, Ren (PI), Ozguven, Eren Erman (Co-PI), & Dulebenets, Maxim (Co-PI). (Dec 2016–Sep 2018). *Evaluation Of Capacity Of Roundabouts*. Funded by Florida Department of Transportation. (BDV30 TWO 985-01). Total award \$150,000.
- Ozguven, Eren Erman (PI), & Arpan, Laura (Co-PI). (Sep 2016–Feb 2019). *UHDNetCity: User-Centered Heterogeneous Data Fusion for Multi-Networked City Mobility*. Funded by National Science Foundation. (1640587). Total award \$233,123.
- Ozguven, E. E., Jung, S., & Sobanjo, J. (Sep 2016–Dec 2017). *Senior Community Resilience: Assessing the Interdependencies between Critical Transportation Infrastructures and Implications on Aging People's Households*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$216,965.
- Abdelrazig, Y., Moses, R., & Ozguven, E. E. (Jan 2016–Aug 2016). *Spatial-Context Intersections Safety Analysis for the Aging Population: An Integrated 3-Dimensional Visualization and Human Factors Simulation Approach*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$135,000.

- Ozguven, E. E., & Horner, M. (Jan 2015–Dec 2015). *Scenario-based Evaluation of Multi-Modal Emergency Transportation Operations towards Better Decision Making in Aging-focused Humanitarian Logistics: Phase I*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$59,321.
- Ozguven, E. E., Vanli, A., Moses, R., Barrett, A., & Sando, T. (Jan 2015–Dec 2016). *Travel Time and Roadway Capacity Reliability for an Aging Population: The Development of a Model Integrating Roadway Traffic with Aging Adults' Driving Behavior*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$329,701.
- Sando, T., Boot, W., Kobelo, D., Ozguven, E. E., & Moses, R. (Jan 2015–Dec 2016). *Micro Analysis of Collisions in Crash Clusters: Creating Crash Patterns and Conducting a Driver Simulation Study*. Funded by Center for Accessibility and Safety for an Aging Population (ASAP). Total award \$225,000.
- Moses, Ren (PI), & Ozguven, Eren Erman (Co-PI). (Nov 2014–Jun 2016). *To Determine the Trip Characteristics of Transit Oriented Development in Florida*. Funded by Florida Department of Transportation. (BDV30 TWO 943-14). Total award \$153,000.
- Ozguven, Eren Erman (PI). (May 2014–Aug 2014). *FYAP: Intermodal Needs Assessment For Transporting Vital Supplies in the Aftermath of A Disaster*. Funded by FSU CRC. (None). Total award \$20,000.
- Ozguven, E. E., Horner, M., Abdelrazig, Y., Sando, T., & Moses, R. (Jan 2014–Feb 2015). *Needs Assessment for Multi-Modal Emergency Transportation Operations with a Focus on an Aging Population*. Funded by Center for Safe and Accessible Transportation for an Aging Population. Total award \$125,400.
- Sando, T., Abdelrazig, Y., Ozguven, E. E., & Moses, R. (Jan 2014–Feb 2015). *Analyzing Crush Clusters near Senior Destination Sites Using a GIS Approach*. Funded by Center for Safe and Accessible Transportation for an Aging Population. Total award \$96,700.
- Abdelrazig, Y., Boot, W., Ozguven, E. E., & Moses, R. (Jan 2014–Feb 2015). *Spatial Context Transportation Safety Analysis for the Aging Population: An Integrated 3-D Dimensional Visualization and Human Factors Simulation Approach*. Funded by Center for Safe and Accessible Transportation for an Aging Population. Total award \$107,000.
- Charness, Neil H (Co-PI), Spainhour, Lisa K (Co-PI), Sobanjo, John O (PI), Ping, Wei-Chou V (Co-PI), Brown, Jeffrey R (Co-PI), Horner, Mark W (Co-PI), Boot, Walter (Co-PI), Duncan Jr, Michael Douglas (Co-PI), & Ozguven, Eren Erman (Co-PI). (Oct 2013–Sep 2019). *Center for Safe and Accessible Transportation for an Aging Population*. Funded by United States Department of Transportation. (DTRT13-G-UTC42). Total award \$4,209,600.

Ozguven, Eren Erman (PI). (Aug 2013–Jul 2014). *Start Up - Eren Ozguven*. Funded by FSU. (None). Total award \$30,000.

Moses, Ren (PI), & Ozguven, Eren Erman (Co-PI). (May 2013–Jun 2015). *Twenty-Four Hour Peaking Relationship to Level of Service and Other Measures of Effectiveness*. Funded by Florida Department of Transportation. (BDV30 TWO 977-01). Total award \$115,455.

Contracts and Grants Pending

Horner, Mark W (Co-PI), & Ozguven, Eren Erman (PI). (May 2020). *Center for Assistive, Accessible and Automated Mobility*. Submitted to West Virginia University.

Feiock, Richard (PI), & Ozguven, Eren Erman (Co-PI). (Jan 2020). *STC: Sustainable Urban Systems Science (SUSS): A Foundational Science for Distributed Infrastructure, Smart City & Circular Economy Innovations to Achieve Multiple Societal Goals*. Submitted to Princeton University.

Moses, Ren (Co-PI), Ozguven, Eren Erman (PI), & Dulebenets, Maxim (Co-PI). (Dec 2019). *Development of Crash Prediction Models for Short-Term Durations*. Submitted to Connetics Transportation Group.

Jones, Faye R (Co-PI), Mardis, Marcia A. (PI), & Ozguven, Eren Erman (Co-PI). (Sep 2019). *iSmart: Exploring Smart and Connected Disaster Planning for Rural and Small Libraries*. Submitted to Institute of Museum and Libraries.

Ozguven, Eren Erman (PI). (Jul 2019). *Safety Impacts of Autonomous Vehicles beyond Technological Optimism*. Submitted to State University of New York.

Moses, Ren (Co-PI), Horner, Mark W (Co-PI), Duncan Jr, Michael Douglas (Co-PI), Crute, Jeremy Paul (Co-PI), Ozguven, Eren Erman (Co-PI), Dulebenets, Maxim (Co-PI), Choi, Juyeong (PI), Sun, Yanshuo (Co-PI), & Smith, Dennis J (Co-PI). (Jan 2019). *Identifying and Tracking Emerging Transportation Trends and Indicators*. Submitted to Florida Department of Transportation.

U.S. Department of Transportation University Transportation Center (UTC) Spotlight - July 2015

Ozguven, E. E., Horner, M., Abdelrazig, Y., Sando, T., & Moses, R. (2015). *Needs Assessment for Multimodal Emergency Transportation Operations With a Focus on an Aging Population*. U.S. Department of Transportation: Office of the Secretary of Transportation.

Service

Florida State University

FSU Department Service

Coordinator, Transportation Area Committee (2017–present).

Committee Member, Graduate Committee (2016–present).

Member, Asst Prof in Sustainable Infrastructure Search Committee (2017–2018).

Committee Member, Undergraduate Committee (2014–2016).

FSU Institute or Center Service

Director, Center for Resilient Infrastructure and Disaster Response (2019–present).

Affiliate, Center for Advanced Power Systems (2019–present).

Affiliate, Pepper Institute on Aging and Public Policy (2018–present).

Affiliate, Institute for Successful Longevity (2013–present).

The Profession

Guest Editing for Refereed Journals

Arghandeh, R., Uzunoglu, B., Ozguven, E. E., & Di Arco, S. (Eds.). (2021, July). Data Driven Reliable and Resilient Energy System Against Disasters [Special Issue]. *IEEE Transactions on Industrial Informatics*.

Arghandeh, R., & Ozguven, E. E. (Eds.). (2020, October). Big Data and Smart Cities [Special Issue]. *Energies*.

Kealy, A., Duckham, M., Horner, M., & Ozguven, E. E. (Eds.). (2019, June). Advances in geospatial emergency management [Special Issue]. *Computers, Environment and Urban Systems*.

Editorial Board Membership(s)

Transportation Research Part D (2018–present).

Guest Reviewer for Refereed Journals

International Journal of Production Economics (2020–present).

Journal of Advanced Transportation (2020–present).

Applied Energy (2019–present).

Dergipark (2019–present).

Journal of Urban Technology (2019–present).

Reliability Engineering and System Safety (2019–present).

Simulation Modeling Practice and Theory (2019–present).

Sustainable Cities and Society (2019–present).

IEEE Control Systems Letters (2018–present).

International Journal of Transportation Science and Technology (2018–present).

Preventing Chronic Disease (2018–present).

Accident Analysis and Prevention (2017–present).

Euro-Mediterranean Journal for Environmental Integration (2017–present).

Production and Operations Management (2017–present).

Safety Science (2017–present).

IEEE ITS Magazine (2016–present).

International Journal of Disaster Risk Reduction (2016–present).

Journal of Infrastructure Systems (2016–present).

Journal of the Operational Research Society (2016–present).

PLOS ONE (2016–present).

Surveys in Operations Research and Management Science (2016–present).

Sustainability (2016–present).

Disasters Journal (2015–present).

Recent Patents in Mechanical Engineering (2015–present).

Transportation (2015–present).

Operational Research: An International Journal (2014–present).

Transportation Research Part D (2014–present).

Omega, The International Journal of Management Science (2013–present).

The IEEE Transactions on ITS (2013–present).

European Journal of Operational Research (2010–present).

Transport Policy (2010–present).

Transportation Research Part A (2010–present).

Transportation Research Part E (2010–present).

Transportation Research Part C (2009–present).

IEEE Conference on Intelligent Transportation Systems (2007–present).

Transportation Research Record (2006–present).

Judge for an Exhibition

2014 FAMU-FSU College of Engineering Graduate Student Research Symposium. Tallahassee, FL: FAMU-FSU College of Engineering (2014–2015).

2013 FAMU-FSU College of Engineering Graduate Student Research Symposium. Tallahassee, FL: FAMU-FSU College of Engineering (2013–2014).

Service to Professional Associations

Faculty Advisor for the FAMU-FSU College of Engineering Chapter, We launched the ITE Chapter in February 2018, and are currently working on increasing participation with other chapters and Florida State ITE, Institute for Transportation Engineers (2018–present).

Interviews

Bill Wellock. (2020, June). A comparative analysis of transportation-based accessibility to mental health services. *FSU News*. Retrieved from <https://news.fsu.edu/news/health-medicine/2020/06/16/fsu-researchers-find-access-to-mental-health-facilities-in-florida-varies/>

Bill Wellock. (2020, May). For better emergency management planning, consider stress and frustration. *FSU News*. Retrieved from <https://news.fsu.edu/news/science-technology/2020/05/07/fsu-research-for-better-emergency-management-planning-consider-stress-and-frustration/>

Trisha Radulovich. (2019, April). FAMU-FSU Engineering researchers analyze mobility data for smart power usage. *FAMU-FSU News*. Retrieved from <https://www.eng.famu.fsu.edu/news/ozguven-load-forecasting>

Trisha Radulovich. (2019, January). Researchers at FAMU-FSU Engineering use metric specific technology to keep seniors safer on the road. *FSU News*. Retrieved from <https://news.fsu.edu/news/science-technology/2019/01/15/researchers-at-famu-fsu-engineering-use-metric-specific-technology-to-keep-seniors-safer-on-the-road/>

Kathleen Haughney. (2018, November). A storm plan: New research creates model to help plan for special needs, pet-friendly shelters. *Florida State University News*. Retrieved from <https://news.fsu.edu/news/science-technology/2018/11/19/a-storm-plan-new-research-creates-model-to-help-plan-for-special-needs-pet-friendly-shelters/>

Tisha Keller. (2018, October). Engineering researchers receive \$500,000 NSF grant to study hurricane evacuation. *Florida State University News*. Retrieved from <https://news.fsu.edu/news/science-technology/2018/10/16/engineering-researchers-receive-500000-nsf-grant-to-study-hurricane-evacuation/>

Casey Feindt. (2018, October). FAMU-FSU faculty members receive grant from National Science Foundation. *Abc27 WTXL News*. Retrieved from http://www.wtxl.com/news/fsu-famu-faculty-members-receive-grant-from-national-science-foundation/article_9cfd4b10-d31a-11e8-bc67-77ae8f625c1a.html

Casey Chapter. (2018, October). FSU, FAMU receive grant to study hurricane evacuation. *FSUNews.com*. Retrieved from

<https://www.fsunews.com/story/news/2018/10/21/fsu-receives-grant-study-hurricane-eva-cuation/1710946002/>

Robin Sussingham. (2018, September). Elderly Face Challenges Evacuating With Pets. *WFSU Public Media* [Radio Interview]. Retrieved from <http://news.wfsu.org/post/elderly-face-challenges-evacuating-pets>

Daniel Dunaief. (2018, March). SBU's Anil Yazici seeks solutions for the elderly. *TRB Newsmedia* [Article]. Retrieved from <http://tbrnewsmedia.com/sbus-anil-yazici-seeks-solutions-elderly/>

Kara Irby. (2017, October). Evacuating older adults and their furry friends: FSU study finds Florida needs more pet-friendly shelters. *FSU News* [Article]. Retrieved from <http://news.fsu.edu/news/education-society/2017/10/23/evacuating-older-adults-furry-friends-fsu-study-finds-florida-needs-pet-friendly-shelters/>

Vanessa Mills. (2017, October). Pets need an evacuation plan too. *ABC 27 WTXL* [Article]. Retrieved from http://www.wtxl.com/news/pets-need-an-evacuation-plan-too/article_9771d4c4-b9c9-11e7-beb6-a38bb32e6a72.html

Brittany Bedi. (2017, August). Heavy traffic, full hotels expected for cities near total solar eclipse. *WCTV Eyewitness News* [Television]. Retrieved from <http://www.wctv.tv/content/news/Heavy-traffic-full-hotels-expected-for-solar-eclipse-438910253.html>

Kathleen Haughney. (2016, October). FSU team tackles urban mobility in smart city era. *FSU News* [Article]. Retrieved from <http://news.fsu.edu/news/science-technology/2016/10/11/fsu-team-tackles-urban-mobility-smart-city-era/>

The Community

Faculty Advisor, Turkish Student Association at Florida State University (2015–present).

Research Sponsor, Young Scholars Program through Florida State University (2019).

Research Sponsor, Young Scholars Program through Florida State University (2018).

Research Sponsor, Young Scholars Program through Florida State University (2017).

Research Sponsor, 2016 Young Scholars Program, Young Scholars Program through Florida State University (2016).

Research Sponsor, 2015 Young Scholars Program, Young Scholars Program through Florida State University (2015).

IEEE on ITS Conference Special Session Organizer

Yazici, M. A., & Ozguven, E. E. (2018). *Intelligent Transportation Systems and Disadvantaged Populations: Technology Adoption Challenges and Bridging the Digital Divide*. 21st IEEE International Conference on ITS.