- Karbassi, A., & Barth, M. (2003, June). Vehicle Route Prediction and Time of Arrival Estimation Techniques for Improved Transportation System Management. In IEEE IV2003 intelligent vehicles symposium. Proceedings (Cat. No. 03TH8683) (pp. 511-516). IEEE.
- Zhu, W., Boriboonsomsin, K., & Barth, M. (2008, October). Mobility Index-based Navigation for Mandatory Rerouting Scenarios. In 2008 11th International IEEE Conference on Intelligent Transportation Systems (pp. 581-586). IEEE.
- Barth, M. J., Boriboonsomsin, K., Zhu, W., Vu, A., Gerdes, A., Lee, C. H., & Rosario, D. (2008). Environmental-Friendly Navigation: Technology Description and Field Operational Testing Plan. In 15th World Congress on Intelligent Transport Systems and ITS America's 2008 Annual Meeting. ITS AmericaERTICOITS JapanTransCore.
- 4. Boskovich, S., Boriboonsomsin, K., & Barth, M. (2010, September). A Developmental Framework towards Dynamic Incident Rerouting Using Vehicle-to-Vehicle Communication and Multi-Agent Systems. In 13th International IEEE Conference on Intelligent Transportation Systems (pp. 789-794). IEEE.
- Boriboonsomsin, K., Barth, M. J., Zhu, W., & Vu, A. (2010). ECO-Routing Navigation System based on Multi-Source Historical and Real-Time Traffic Information. *Proceedings of the ITSC 2010 Workshop on Emergent Cooperative Technologies in Intelligent Transportation Systems*, Madeira Island, Portugal, September 2010, 6 pp.
- 6. Zhu, W., Boriboonsomsin, K., & Barth, M. (2010). Defining a Freeway Mobility Index for Roadway Navigation. Journal of Intelligent Transportation Systems, 14(1), 37-50.
- Boriboonsomsin, K., Barth, M. J., Zhu, W., & Vu, A. (2012). Eco-Routing Navigation System Based on Multisource Historical and Real-Time Traffic Information. IEEE Transactions on Intelligent Transportation Systems, 13(4), 1694–1704.
- Boskovich, S., & Barth, M. (2013, October). Vehicular Network Re-routing Autonomy with a V2V, I2V, and V2I Communication Matrix Classification. In 16th International IEEE Conference on Intelligent Transportation Systems (ITSC 2013) (pp. 172-177). IEEE.
- **9.** Boriboonsomsin, K., Dean, J., & Barth, M. (2014). Examination of Attributes and Value of Ecologically Friendly Route Choices. Transportation Research Record: Journal of the Transportation Research Board, 2427(1), 13–25.
- **10.** Ibrahim, U, & Barth, M. Simulative Analysis of Dynamic Re-routing for Arterial Road Networks in VISSIM. (2014). Research report for Class EE-246, University of California, Riverside.
- **11.** Scora, G., Boriboonsomsin, K., & Barth, M. (2015). Value of Eco-friendly Route Choice for Heavy-Duty Trucks. Research in Transportation Economics, 52, 3–14.
- 12. Luo, J., Boriboonsomsin, K., & Barth, M. (2018) Consideration of Exposure to Traffic-Related Air Pollution in Bicycle Route Planning. Transportation Research Board 97th Annual Meeting.
- 13. Luo, J., Barth, M. J., & Boriboonsomsin, K. (2018). Vehicle Routing to Mitigate Human Exposure to Traffic-Related Air Pollutants. 2018 21st International Conference on Intelligent Transportation Systems (ITSC).
- 14. Li, W., Wu, G., Yao, D., Zhang, Y., & Barth, M. J. (2018). Dynamic En-Route Eco-Navigation: Strategy Design, Implementation and Evaluation. 2018 21st International Conference on Intelligent Transportation Systems (ITSC).
- Luo, J., Boriboonsomsin, K., & Barth, M. (2018). Reducing Pedestrians' Inhalation of Traffic-Related Air Pollution Through Route Choices: Case study in California suburb. Journal of Transport & Health, 10, 111– 123.