

TSDC Publications: Types of Analyses Examples (2009–2024)

The following 262 publications from 2009–2024 provide examples of the types of analyses made possible by the National Laboratory of the Rockies' [Transportation Secure Data Center \(TSDC\)](#).

For more recent publications, visit the “Studies and Analyses” section of the [TSDC Publications webpage](#).

2024

1. [Decoding the Patterns of Critical Factor Associations Driving Electric Vehicle Recommendations](#)
Authors: Reuben Tamakloe and Livingstone Divine Caesar
Journal: *Transportation Research Part A: Policy and Practice* (September 2024)
2. [Market Study of Emerging Residential Energy and Automation Technology Final Report](#)
Authors: Manuel Lopez, Thomas Wicklund, Andrew Norman, Pablo Avaloz Ruiz, and Keith Graeber
Report: CalNEXT (September 2024)
3. [National Vehicle Itinerary GenerATor \(NAVIGAT\)](#)
Authors: Xiaodan Xu, Carlos Guirado, Ling Jin, Catherine Ledna, and C. Anna Spurlock
Report: Lawrence Berkeley National Laboratory (July 2024)
4. [On the Role of Perceived Safety Concerns on Public Acceptance Behavior of Autonomous Vehicles](#)
Authors: Fatemeh Nazari and Mohamadhossein Noruzoliaee
Report: The University of Texas Rio Grande Valley (July 2024)
5. [Classification of Datasets Used in Data Anonymization for IoT Environment](#)
Author: Jana Medková
Conference: 37th International Conference on Industrial, Engineering, and Other Applications of Applied Intelligent Systems (July 2024)
6. [Learning From User Behavior: A Survey-Assist Algorithm for Longitudinal Mobility Data Collection](#)
Authors: Hannah Lu, Katie Rischpater, and K. Shankari
Journal: *Travel Behaviour and Society* (July 2024)
7. [Semantic Trajectory Data Mining With LLM-Informed POI Classification](#)
Authors: Yifan Liu, Chenchen Kuai, Haoxuan Ma, Xishun Liao, Brian Yueshuai He, and Jiaqi Ma
Report: Mobility Lab at University of California, Los Angeles (May 2024)
8. [Technology Progress and Clean Vehicle Policies on Fleet Turnover and Equity: Insights From Household Vehicle Fleet Micro-Simulations With ATLAS](#)
Authors: Ling Jin, Connor P. Jackson, Yuhan Wang, Qianmiao Chen, Tin Ho, C. Anna Spurlock, Aaron Brooker, Jacob Holden, Jeffrey Gonder, Mohamed Amine Bouzaghrane,

Bingrong Sun, Shivam Sharda, Venu Garikapati, Tom Wenzel, and Juan Caicedo
Journal: *Transportation Planning and Technology* (May 2024)

9. [Who Is Inclined To Buy an Autonomous Vehicle: Empirical Evidence from California](#)
Authors: Md. Mokhlesur Rahman and Jean-Claude Thill
Journal: *Transportation* (May 2024)
10. [Planning Charging Stations for 2050 To Support Flexible Electric Vehicle Demand Considering Individual Mobility Patterns](#)
Authors: Jiaman Wu, Siobhan Powell, Yanyan Xu, Ram Rajagopal, and Marta C. Gonzalez
Journal: *Cell Reports Sustainability* (January 2024)
11. [Household Surveys, Trip Purposes, and Travel Time](#)
Author: Sherman Lewis
Report: Hayward Area Planning Association (2024)
12. [Essays on Environmental, Urban, and Transportation Economics](#)
Author: Yucheng Wang
Dissertation: University of Pittsburgh (2024)

2023

1. [Data-Driven Transferred Energy Management Strategy for Hybrid Electric Vehicles via Deep Reinforcement Learning](#)
Authors: Hao Chen, Gang Guo, Bangbei Tang, Guo Hu, Xiaolin Tang, and Teng Liu
Journal: *Energy Reports* (November 2023)
2. [Mode Share Changes in California: An Exploratory Analysis of Factors Affecting Decreases in Walking, Biking and Transit Use from 2012 to 2017](#)
Authors: Susan Pike and Susan Handy
White Paper: National Center for Sustainable Transportation (November 2023)
3. [LA100 Equity Strategies: Household Transportation Electrification](#)
Authors: Dong-Yeon Lee, Bingrong Sun, Alana Wilson, Megan Day, Patricia-Romero Lankao, Nicole Rosner, Fan Yang, Aaron Brooker, and Jane Lockshin
Report: NLR (November 2023)
4. [Fast Charging Infrastructure for Electrifying Road Trips to and From National Parks in the Western United States](#)
Authors: Dong-Yeon Lee, Kaylyn Bopp, Matthew Moniot, and Alicen Kandt
Report: NLR (September 2023)
5. [Mobility Energy Productivity and Equity: E-Bike Impacts for Low-Income Essential Workers in Denver](#)
Authors: Christopher Hoehne, Max Hanrahan, K. Shankari, and Venu Garikapati
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (September 2023)
6. [Urban Mobility in the Age of Automation: Analyzing Public Attitudes Toward Privately Owned Versus Shared Automated Vehicles](#)

Authors: Fatemeh Nazari, Yellitza Soto, and Mohamadhossein Noruzoliaee
arXiv (September 2023)

7. [Analyzing Household Vehicle Holdings and Usage in California Using a Two-Stage Budgeting-Based Multiple Discrete-Continuous Model](#)
Authors: Shobhit Saxena, Chandra R. Bhat, and Abdul Rawoof Pinjari
Report: University of Texas at Austin (August 2023)
8. [Exploring the Role of Perceived Range Anxiety in Adoption Behavior of Plug-in Electric Vehicles](#)
Authors: Fatemeh Nazari, Abolfazl Mohammadian, and Thomas Stephens
arXiv (August 2023)
9. [PEV Adoption Model for California Based on Heterogeneity in Single and Multi-Vehicle Households](#)
Authors: Trisha Ramadoss, Jae Hyun Lee, Adam Wilkinson Davis, Scott Hardman, and Gil Tal
Conference: 36th International Electric Vehicle Symposium (June 2023)
10. [Utility Factor Curves for Plug-in Hybrid Electric Vehicles: Beyond the Standard Assumptions](#)
Authors: Karim Hamza and Kenneth P. Laberteaux
Conference: 36th International Electric Vehicle Symposium (June 2023)
11. [Assessing Progress and Equity in the Distribution of Electric Vehicle Rebates Using Appropriate Comparisons](#)
Author: Brett D. H. Williams
Journal: *Transport Policy* (June 2023)
12. [Battery Cell Imbalance and Electric Vehicles Range: Correlation and NMPC-Based Balancing Control](#)
Authors: Jun Chen and Zhaodong Zhou
Conference: IEEE International Conference on Electro Information Technology (May 2023)
13. [Do electric vehicle charger locations respond to the potential charging demands from multi-unit dwellings? Evidence from Los Angeles County](#)
Author: Zhongying Gan
Journal: *Transport Policy* (April 2023)
14. [Reducing Aggregate Electric Vehicle Battery Capacity Through Sharing](#)
Authors: Polina Alexeenko and Vasileios Charisopoulos
Report: Cornell University (April 2023)
15. [Supporting Gasoline-Burdened Families' Transition to EVs to Maximize Climate and Equity Benefits](#)
Authors: Janelle London, Matthew Metz, Paul Rosler, and Til Dietrich
Report: Coltura (April 2023)

16. [Time-Series Fuel Consumption Prediction Assessing Delay Impacts on Energy Using Vehicular Trajectory](#)
 Authors: Rezwana Kabir, Stephen M. Remias, Jonathan Waddell, and Dongxiao Zhu
 Journal: *Transportation Research Part D: Transport and Environment* (April 2023)
17. What Drives the Use of Shared Autonomous Vehicles: Empirical Evidence From California
 Authors: Md. Mokhlesur Rahman and Jean-Claude Thill
 Report: DePaul University (April 2023)
18. [Preferences for Zero-Emission Vehicle Attributes: Comparing Early Adopters With Mainstream Consumers in California](#)
 Authors: Wenjian Jia, Zhiqiu Jiang, Qian Wang, Bin Xu, and Mei Xiao
 Journal: *Transport Policy* (March 2023)
19. [Modelling and Analysis of Electric Two-Wheeler With Novel Planetary Gear Box Transmission](#)
 Authors: Aditya Paranjape, Amey Kulkarni, Mihir Kulkarni, and Neeraj Kumbhojkar
 Journal: *International Journal of Electric and Hybrid Vehicles* (February 2023)
20. [Modeling Vehicle-Miles of Travel Accounting for Latent Heterogeneity](#)
 Authors: Fatemeh Nazari and Abolfazl (Kouros) Mohammadia
 Journal: *Transport Policy* (January 2023)
21. [Assessing the Potential Impacts of Toll Discounts on Zero-Emission Vehicle Adoption](#)
 Authors: Adam Wilkinson Davis, Joshua Stark, and Juan Carlos Garcia Sanchez
 Report: National Center for Sustainable Transportation (January 2023)
22. [Systems and Operational Modeling and Simulation to Address Research Gaps in Transportation Electrification](#)
 Author: Aaron Rabinowitz
 Dissertation: Colorado State University (2023)

2022

1. [Impact of Battery Cell Imbalance on Electric Vehicle Range](#)
 Authors: Jun Chen, Zhaodong Zhou, Ziwei Zhou, Xia Wang, and Boryann Liaw
 Journal: *Green Energy and Intelligent Transportation* (December 2022)
2. [Principles of the Battery Data Genome](#)
 Authors: Logan Ward, Susan Babinec, Eric Dufek, Venkatasubramanian Viswanathan, Muratahan Aykol, David Beck, Ben Blasizk, Bor-Rong Chen, George Crabtree, Valerio De Angelis, Philipp Dechent, Matthieu Dubarry, Erica Eggleton, Donal Finegan, Ian Foster, Chirranjeevi Balaji Gopal, Patrick Herring, Victor Waiman Hu, Noah Paulson, Yulia Preger, Dirk Uwe Sauer, Kandler Smith, Shashank Sripad, Tanvir Tanim, and Linnette Tao
 Journal: *Joule* (October 2022)
3. [Quantifying the Impact of Transportation on Climate – Energy Analytics Dashboard](#)
 Authors: M.L. Franz, Stanley Young, Jeffrey Cappellucci, C. Xiong, Jake Holden, and W.

Zhou

Conference: Intelligent Transportation Society World Congress (October 2022)

4. [A Bifurcation of the Peak: New Patterns of Traffic Peaking During the COVID-19 Era](#)
Authors: Yang Gao and David Levinson
Journal: *Transportation* (September 2022)
5. [Flight DNA: An Anonymized Aviation Data Tool and Repository](#)
Author: Brett Oakleaf
Brochure: NLR (August 2022)
6. [Connected Automated Vehicle Impacts in Southern California Part-I: Travel Behavior and Demand Analysis](#)
Authors: Brian Yueshuai He, Qinhuai Jiang, and Jiaqi Ma
Journal: *Transportation Research Part D: Transport and Environment* (August 2022)
7. [Multi-Objective Optimization of Battery Electric Vehicle Thermal Management System Operation](#)
Authors: Marie Rae Shelly, Justin A. Weibel, Davide Ziviani, and Eckhard A. Groll
Conference: International Refrigeration and Air Conditioning Conference (July 2022)
8. [Perceived Usefulness and Intentions To Adopt Autonomous Vehicles](#)
Authors: Jingyi Xiao and Konstadinos G. Goulias
Journal: *Transportation Research Part A: Policy and Practice* (July 2022)
9. [Lessons Learned About Electric Vehicle Consumers Who Rated the U.S. Federal Tax Credit "Extremely Important" in Enabling Their Purchase](#)
Authors: Brett Williams and John Anderson
Conference: International Electric Vehicle Symposium and Exhibition (June 2022)
10. [Determinants of Purchase Likelihood for Partially and Fully Automated Vehicles: Insights From Mixed Logit Model With Heterogeneity in Means and Variances](#)
Authors: Ali Behnood, Milad Haghani, Emadaldin and Mohammadi Golafshani
Journal: *Transportation Research Part A: Policy and Practice* (May 2022)
11. [People with Disabilities and Use of Public Transit: The Role of Neighborhood Walkability](#)
Authors: Kihyun Kwon and Gulsah Akar
Journal: *Journal of Transport Geography* (April 2022)
12. [Beyond Adoption: Examining Electric Vehicle Miles Traveled in Households With Zero-Emission Vehicles](#)
Authors: Wenjian Jia and T. Donna Chen
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (March 2022)
13. [Nonlinear Relationships Between Vehicle Ownership and Household Travel Characteristics and Built Environment Attributes in the U.S. Using the XGBT Algorithm](#)
Authors: Te Ma, Mahdi Aghaabbasi, Mujahid Ali, Rosilawati Zainol, Amin Jan, Abdeliazim Mustafa Mohamed, and Abdullah Mohamed
Journal: *Sustainability* (March 2022)

14. [Light-Duty Vehicle Trip Classification Using One-Class Novelty Detection and Exhaustive Feature Extraction](#)
Authors: Lei Zhu, Brennan Borlaug, Lei Lin, Jacob Holden, and Jeffrey Gonder
Journal: *IEEE Transactions on Industry Applications* (February 2022)
15. [Developing an Interactive Landscape for Mobility Resources](#)
Authors: Lauren Janicke, Benjamin Burch, K. Shankari, and Arthur Yip
Conference: Transportation Research Board Annual Meeting (January 2022)
16. [Can Californian Households Save Money on Transportation Costs by Living in Transit-Oriented Developments?](#)
Author: Hongwei Dong
Report: Mineta Transportation Institute (January 2022)

2021

1. [A Review of Data Sources for Electric Vehicle Integration Studies](#)
Authors: Lisa Calero, Mattia Marinelli, and Charalampos Ziras
Journal: *Renewable and Sustainable Energy Reviews* (November 2021)
2. [Driving Conditions-Driven Energy Management Strategies for Hybrid Electric Vehicles: A Review](#)
Authors: Teng Liu, Wenhao Tan, Xiaolin Tang, Jinwei Zhang, Yang Xing, Dongpu Cao
Journal: *Renewable and Sustainable Energy Reviews* (November 2021)
3. [The Value of Vehicle-to-Grid in a Decarbonizing California Grid](#)
Authors: Meiye Wang and Michael Craig
Journal: *Journal of Power Sources* (November 2021)
4. [Future Automotive Systems Technology Simulator \(FASTSim\) Validation Report – 2021](#)
Authors: Chad Baker, Matthew Moniot, Aaron Brooker, Lijuan Wang, Eric Wood, and Jeffrey Gonder
Report: NLR (October 2021)
5. [A Probabilistic Method to Estimate Emissions and Fuel Consumption Using Connected Vehicle Data from a Mixed Fleet](#)
Authors: Siddhartha Gulhare and Sivaramakrishnan Srinivasan
Conference: IEEE International Intelligent Transportation Systems Conference (October 2021)
6. [Adapting Time Headway in Cooperative Adaptive Cruise Control to Network Reliability](#)
Authors: Adil Alsuhaimeh, Anjan Rayamajhi, James Westall, and Jim Martin
Journal: *IEEE Transactions on Vehicular Technology* (October 2021)
7. [Centralised Coordination of EVs Charging and PV Active Power Curtailment over Multiple Aggregators in Low Voltage Networks](#)
Authors: Andrés Felipe Cortés Borraray, Julia Merino, Esther Torres, Alejandro Garcés, and Javier Mazón
Journal: *Sustainable Energy, Grids and Networks* (September 2021)

8. [Quantifying the Impact of Driving Style Changes on Light-Duty Vehicle Fuel Consumption](#)
Authors: Marco Miotti, Zachary A. Needell, Sankaran Ramakrishnan, John Heywood, and Jessica E. Trancik
Journal: *Transportation Research Part D: Transport and Environment* (September 2021)
9. [Real-Time Highly Resolved Spatial-Temporal Vehicle Energy Consumption Estimation Using Machine Learning and Probe Data](#)
Authors: Joseph Severino, Yi Hou, Ambarish Nag, Jacob Holden, Lei Zhu, Juliette Ugirumurera, Stanley Young, Wesley Jones, and Jibonananda Sanyal
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (September 2021)
10. [Stated Preference Analysis of Automated Vehicles Among California Residents Using Probabilistic Inferences](#)
Authors: Jimoku Hinda Salum, Boniphace Kutela, Angela E. Kitali, and Emmanuel Kidando
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (September 2021)
11. [Optimal Transport Based Drift Detection for Sensor Streams: Method and Applications in Transportation](#)
Authors: Arnab Kumar Laha and Shikha Verma
Report: Indian Institute of Management, Ahmedabad (September 2021)
12. [Modeling Consumer Affinity Towards Adopting Partially and Fully Automated Vehicles – The Role of Preference Heterogeneity at Different Geographic Levels](#)
Authors: Behram Wali, Paolo Santi, and Carlo Ratti
Journal: *Transportation Research Part C: Emerging Technologies* (August 2021)
13. [Three Essays on Electric Vehicle Adoption, Its Effects, and Related Incentives](#)
Author: Atia Ferdousee
Dissertation: Middle Tennessee State University (August 2021)
14. [Changes in When and Where People Are Spending Time in Response to COVID-19](#)
Authors: Nicholas Reinicke, Brennan Borlaug, and Matt Moniot
Report: NLR (July 2021)
15. [Modal Shifts in California from 2012–2017: Investigating Changes in Biking, Walking, and Transit From the 2012 CHTS and 2017 NHTS](#)
Authors: Susan Pike and Susan Handy
Report: University of California, Davis (July 2021)
16. [Investigating the Sensitivity of Electric Vehicle Out-of-Home Charging Demand to Changes in Light-Duty Vehicle Fleet Makeup and Usage: A Case Study for California 2030](#)
Authors: Adam Wilkinson Davis and Gil Tal
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (July 2021)
17. [New Energy Bound-Based Model for Optimal Charging of Electric Vehicles with Solar Photovoltaic Considering Low-Voltage Network's Constraints](#)

Authors: Andrés Felipe Cortés Borray, Alejandro Garcés, Julia Merino, Esther Torres, and Javier Mazón

Journal: *International Journal of Electrical Power and Energy Systems* (July 2021)

18. [Commuter Demand Estimation and Feasibility Assessment for Urban Air Mobility in Northern California](#)

Authors: Mihir Rimjha, Susan Hotel, Antonio Trani, and Nicolas Hinze

Journal: *Transportation Research Part A: Policy and Practice* (June 2021)

19. [Behavioral and Technology Implications of Electromobility on Household Travel Emissions](#)

Authors: Seshadri Srinivasa Raghavan and Gil Tal

Journal: *Transportation Research Part D: Transport and Environment* (May 2021)

20. [Urban Air Mobility: Factors Affecting Vertiport Capacity](#)

Authors: Mihir Rimjha and Antonio Trani

Conference: Integrated Communications, Navigation, and Surveillance Conference (April 2021)

21. [If You Zone It, Who Will Come, and How Will They Travel? The Effects of Relaxed Zoning Regulations on Travel Behavior](#)

Author: Matthew Wigginton Conway

Thesis: Arizona State University (April 2021)

22. Variability of the Value of Vehicle-to-Grid Across Vehicle and Time in Future California Grid

Authors: Meiye Wang

Thesis: University of Michigan (April 2021)

23. Real-World Driving Features for Identifying Intelligent Driver Model Parameters

Authors: Bharatkumar Hegde, Michael O'Keefe, Steven Muldoon, Jeffery Gonder, and Chen-Fang Chang

Report: SAE Technical Paper 2021-01-0436 (April 2021)

24. [Strategically Targeting Plug-In Electric Vehicle Rebates and Outreach Using "EV Convert" Characteristics](#)

Authors: Brett D. H. Williams and John B. Anderson

Journal: *Energies* (March 2021)

25. [Sources of and Gaps in Data for Understanding Public Transit Ridership](#)

Authors: Brian Taylor and Jacob Wasserman

Report: University of California's Institute of Transportation Studies (January 2021)

26. [Evaluating the Impacts of Transit-Oriented Developments on Household Transportation Expenditures in California](#)

Author: Hongwei Dong

Journal: *Journal of Transport Geography* (January 2021)

27. [Developing Policy Thresholds for Objectively Measured Environmental Features To Support Active Travel](#)

Authors: Behram Wali, Lawrence Frank, Jim Chapman, and Eric Fox
Journal: *Transportation Research Part D: Transport and Environment* (January 2021)

28. [Personal Vehicle Electrification and Charging Solutions for High-Energy Days](#)
Authors: Wei Wei, Sankaran Ramakrishnan, Zachary A. Needell, and Jessika E. Trancik
Journal: *Nature Energy* (January 2021)
29. [PHEV Power Management Optimization Using Trajectory Forecasting Based Machine Learning](#)
Author: Joseph Augusto Garcia
Thesis: University of California, Irvine (2021)

2020

1. [Plug-in Hybrid Electric Vehicle Observed Utility Factor: Why the Observed Electrification Performance Differ from Expectations](#)
Authors: Seshadri Srinivasa Raghavan and Gil Tal
Journal: *International Journal of Sustainable Transportation* (December 2020)
2. [A Review of the Population-Based and Individual-Based Approaches for Electric Vehicles in Network Energy Studies](#)
Authors: Andres Borray, Julia Merino, Esther Torres, and Javier Mazón
Journal: *Electric Power Systems Research* (December 2020)
3. [Assessment of Sociodemographic Disparities in Environmental Exposure Might Be Erroneous due to Neighborhood Effect Averaging: Implications for Environmental Inequality Research](#)
Authors: Junghwan Kim and Mei-Po Kwan
Journal: *Environmental Research* (November 2020)
4. Speed Trajectory Generation for Energy Efficient Connected and Automated Vehicles
Authors: Lung En Jan, Junfeng Zhao, Shunsuke Aoki, Anand Bhat, Chen-Fang Chang, and Ragnathan Rajkumar
Report: Carnegie Mellon University (October 2020)
5. [Estimating the Technical Feasibility of Fuel Cell and Battery Electric Vehicles for the Medium and Heavy Duty Sectors in California](#)
Authors: Kate Forrest, Michael Mac Kinnon, Brian Tarroja, and Scott Samuelsen
Journal: *Applied Energy* (October 2020)
6. [Exploration of Statewide Fragmentation of Activity and Travel and a Taxonomy of Daily Time Use Patterns Using Sequence Analysis in California](#)
Authors: Elizabeth Callahan McBride, Adam Wilkinson Davis, and Konstadinos Goulias
Journal: *Transportation Research Record: Journal of the Transportation Research Board* (September 2020)
7. [Measuring Success for Safe Routes to School Programs](#)
Authors: Carole Turley Voulgaris, Serena Alexander, Reyahne Hosseinzade, James

Jimenez, Katherine Lee, and Anurag Pande
Report: Mineta Transportation Institute Publications (September 2020)

8. [Estimating Region-Specific Fuel Economy in the United States from Real-World Driving Cycles](#)
Authors: Brennan Borlaug, Jacob Holden, Eric Wood, Byungho Lee, Justin Fink, Scott Agnew, and Jason Lustbader
Journal: *Transportation Research Part D: Transport and Environment* (September 2020)
9. [Microsimulation Analysis for Network Traffic Assignment \(MANTA\) at Metropolitan-Scale for Agile Transportation Planning](#)
Authors: Pavan Yedavalli, Krishna Kumar, and Paul Waddell
Report: University of California, Berkeley (July 2020)
10. [Characterizing Plug-In Hybrid Electric Vehicle Consumers Who Found the U.S. Federal Tax Credit Extremely Important in Enabling Their Purchase](#)
Authors: Brett Williams, John Anderson, and Amy Lastuka
Conference: Electric Vehicle Symposium (June 2020)
11. [Emissions Benefits of Electric Vehicles in Uber and Lyft Ride-Hailing Services](#)
Author: Alan Jenn
Journal: *Nature Energy* (June 2020)
12. [How Neighborhood Effect Averaging Might Affect Assessment of Individual Exposures to Air Pollution: A Study of Ozone Exposures in Los Angeles](#)
Authors: Junghwan Kim and Mei-Po Kwan
Journal: *Annals of the American Association of Geographers* (June 2020)
13. [Co-Simulation Platform for Developing InfoRich Energy-Efficient Connected and Automated Vehicles](#)
Authors: Shunsuke Aoki, Lung En, Junfeng Zhao, Anand Bhat, Ragunathan Rajkumar, and Chen-Fang Chang
Conference: IEEE Intelligent Vehicles Symposium (June 2020)
14. [Assessing Personal Exposure to Traffic-Related Air Pollution Using Individual Travel-Activity Diary Data and an On-Road Source Air Dispersion Model](#)
Authors: Yoo Min Park
Journal: *Health and Place* (May 2020)
15. [MobilityNet: Towards a Public Dataset for Multi-Modal Mobility Research](#)
Authors: Kalyanaraman Shankari, Jonathan Fuerst, Mauricio Fadel Argerich, Eleftherios Avramidis, and Jesse Zhang
Conference: International Conference on Learning Representations: Tackling Climate Change with Machine Learning (April 2020)
16. [RouteE: A Vehicle Energy Consumption Prediction Engine](#)
Authors: Jacob Holden, Nicholas Reinicke, and Jeff Cappellucci
Conference: WCX SAE World Congress, SAE Technical Paper 2020-01-0939 (April 2020)

17. [Leveraging Real-World Driving Data for Design and Impact Evaluation of Energy Efficient Control Strategies](#)
Authors: Bharatkumar Hegde, Steven E. Muldoon, Michael O'Keefe, and Jeffrey Gonder
Conference: WCX SAE World Congress (April 2020)
18. [Corroborative Evaluation of the Real-World Energy Saving Potentials of InfoRich Eco-Autonomous Driving \(iREAD\) System](#)
Authors: Junfeng Zhao, Chen Fang Chang, Raj Rajkumar, and Jeffrey Gonder
Conference: WCX SAE World Congress (April 2020)
19. [Planning of In-Motion Electric Vehicle Charging on Freeways](#)
Authors: Ahmed Mohamed, Andrew Meintz, and Kevin Walkowicz
Newsletter: IEEE Smart Grid (February 2020)
20. [Understanding Racial Disparities in Exposure to Traffic-Related Air Pollution: Considering the Spatiotemporal Dynamics of Population Distribution](#)
Authors: Yoo Min Park and Mei-Po Kwan
Journal: *International Journal of Environmental Research and Public Health* (February 2020)
21. [How Much Information Is Lost When Sampling Driving Behavior Data? Indicators To Quantify the Extent of Information Loss](#)
Authors: J. Liu, A. Khattak, L. Han, and Q. Yuan
Journal: *Journal of Intelligent and Connected Vehicles* (January 2020)

2019

1. [Planning Optimization for Inductively Charged On-Demand Automated Electric Shuttles Project at Greenville, South Carolina](#)
Authors: Ahmed Mohamed, Lei Zhu, Andrew Meintz, and Eric Wood
Journal: *IEEE Transactions on Industry Applications* (December 2019)
2. [Parking Prices and the Decision to Drive to Work: Evidence from California](#)
Author: Nagwa Khordagui
Journal: *Transportation Research Part A: Policy and Practice* (December 2019)
3. [The Transforming Transportation Ecosystem—A Call to Action](#)
Author: Jane Macfarlane
Report: Institute of Transportation Studies, University of California, Berkeley (November 2019)
4. [Examining the Case for Long-Range Battery Electric Vehicles with a Generalized Description of Driving Patterns](#)
Author: Michael Tamor
Journal: *Transportation Research Part C: Emerging Technologies* (November 2019)
5. [Predicting a Vehicle's Distance Traveled from Short-Duration Data](#)
Authors: Ruohan Li and Kara Kockelman
Journal: *Transport Findings* (September 2019)

6. [Data-Driven Energy Use Estimation in Large Scale Transportation Networks](#)
 Authors: Bin Wang, Cy Chan, Divya Somasi, Jane Macfarlane, and Eric Rask
 Conference: Association for Computing Machinery/Emerging Interest Group Symposium
 On Smart Cities and Communities (September 2019)
7. [Does Transit-Oriented Gentrification Increase Driving?](#)
 Authors: Daniel Chatman, Ruoying Xu, Janice Park, and Anne Spevack
 Journal: *Journal of Planning Education and Research* (August 2019)
8. [Optimizing the Electric Range of Plug-in Vehicles via Fuel Economy Simulations of Real-World Driving in California](#)
 Authors: Kenneth Laberteaux, Karim Hamza, and John Willard
 Journal: *Transportation Research Part D: Transport and Environment* (August 2019)
9. [Livewire Data Platform—A Solution for EEMS Data Sharing](#)
 Authors: Kay Kelly, Johanna Levene, John Smart, and Chitra Sivaraman
 Meeting: DOE Vehicle Technologies Office Annual Merit Review (June 2019)
10. [Stochastic Generation of Aggregated Charging Profiles of PEVs for the Operation Analysis of Low Voltage Networks](#)
 Authors: Andres Cortez, Julia Merino, and Esther Torres
 Conference: 25th International Conference on Electricity Distribution (June 2019)
11. [The Relationship Between Neighborhood Design and Social Capital as Measured by Carpooling](#)
 Author: Dhari Alrasheed
 Journal: *Journal of Regional Science* (June 2019)
12. [SMART Mobility - Advanced Fueling Infrastructure: National Energy Impact of Electrified Ride-Hailing Vehicles with Varying Infrastructure Support](#)
 Authors: Yan Zhou, Eric Wood, and Fei Xie
 Report: Energy Efficient Mobility Systems 2018 Annual Progress Report (April 2019)
13. [Core Modeling: Maintenance, Tools, Real-World Energy Impact Estimation, and Toyota Prius Prime Validation](#)
 Authors: Phillip Sharer and Aymeric Rousseau
 Report: Energy Efficient Mobility Systems 2018 Annual Progress Report (April 2019)
14. [Modeling the Effect of Power Consumption in Automated Driving Systems on Vehicle Energy Efficiency for Real-World Driving in California](#)
 Authors: Karim Hamza, John Willard, Kang-Ching Chu, and Kenneth Laberteaux
 Journal: *Transportation Research Record: Journal of the Transportation Research Board* (March 2019)
15. [Aging Characterization and Modeling of Nickel-Manganese-Cobalt Lithium-Ion Batteries for 48V Mild Hybrid Electric Vehicle Applications](#)
 Authors: Z. Liu, A. Ivanco, and S. Onori
 Journal: *Journal of Energy Sources* (February 2019)

16. [An Overview of Technologies for Individual Trip History Collection: Mobility Decision Science Pillar SMART Mobility Consortium](#)
 Authors: T. Kwasnik, S. Carmichael, and S. Isley
 Report: NLR (January 2019)
17. [Understanding the Linkage Between Electric Vehicle Charging Network Coverage and Charging Opportunity Using GPS Travel Data](#)
 Authors: E. Kontou, C. Liu, F. Xie, X. Wu, and Z. Lin
 Journal: *Transportation Research Part C: Emerging Technologies* (January 2019)
18. [Low-Income Access to Employer-Based Transit Benefits: Evidence from 10 Large Metropolitan Regions](#)
 Author: Andrea Hamre
 Journal: *Journal of Transportation Demand Management* (2019)

2018

1. [Forecasting Current and Next Trip Purpose with Social Media Data and Google Places](#)
 Authors: Y. Cui, C. Meng, Q. He, and J. Gao
 Journal: *Transportation Research Part C: Emerging Technologies* (December 2018)
2. [Will Advanced Public Charging Infrastructure Speed Up Electrification of Future Transportation?](#)
 Authors: F. Xie, Z. Lin, Y. Zhou, C. Rames, E. Wood, and E. Kontou
 Conference: International Conference on Intelligent Transportation Systems (November 2018)
3. [The Potential Short-Term Impact of a Hyperloop Service Between San Francisco and Los Angeles on Airport Competition in California](#)
 Authors: A. Voltés-Dorta and E. Becker
 Journal: *Transport Policy* (November 2018)
4. [Economic Viability and Environmental Impact of In-Motion Wireless Power Transfer](#)
 Authors: B. Limb, Z. Asher, T. Bradley, E. Sproul, D. Trinko, B. Crabb, R. Zane, and J. Quinn
 Journal: *IEEE Transactions on Transportation Electrification* (October 2018)
5. [Navigation Application Programming Interface Route Fuel Saving Opportunity Assessment on Large-Scale Real-World Travel Data for Conventional Vehicles and Hybrid Electric Vehicles](#)
 Authors: L. Zhu, J. Holden, and J. Gonder
 Journal: *Transportation Research Record: Journal of the Transportation Research Board* (October 2018)
6. [Simultaneous Estimation of Flexible Models and Associated Hyperparameters: An Application to Travel Activity-Duration Modeling](#)
 Authors: D. Emaasit and A. Paz
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7. [A Driving Cycle Detection Approach Using Map Service API](#)
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8. [Deviation between Actual and Shortest Travel Time Paths for Commuters](#)
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9. [Electric Vehicle Fast Charging Station Usage and Power Requirements](#)
Authors: T. Bryden, G. Hilton, A. Cruden, and T. Holton
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10. [Establishing a Central Archive for Transit Passenger Data](#)
Authors: G. Newmark and H. Nixon
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11. [Are Cars Used Differently in Germany than in California? Findings from Annual Car-Use Profiles](#)
Authors: C. Eisenmann and R. Buehler
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12. [Volunteers in the Smart City: Comparison of Contribution Strategies on Human-Centered Measures](#)
Authors: S. Bennati, I. Dusparic, R. Shinde, and C. Jonker
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13. [Beyond Residential Segregation: A Spatiotemporal Approach to Examining Multi-Contextual Segregation](#)
Authors: Y. Park and M. Kwan
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14. [A Study on Optimal Powertrain Sizing of Plugin Hybrid Vehicles for Minimizing Criteria Emissions Associated with Cold Starts](#)
Authors: K. Hamza and K. Laberteaux
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15. [Determining Off-Cycle Fuel Economy Benefits of Two-Layer HVAC Technology](#)
Authors: F. Jehlik, N. Chevers, M. Moniot, and Y. Song
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16. [Conceptualization and Implementation of a Scalable Powertrain, Modular Energy Storage and an Alternative Cooling System on a Student Concept Vehicle](#)
Authors: B. Schwambach, J. Brooks, P. Venhovens, K. Bagga, et al.
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17. [Planning for Electric Vehicle Needs by Coupling Charging Profiles with Urban Mobility](#)
Authors: Y. Xu, S. Colak, E. Kara, S. Moura, and M. González
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Authors: G. Hilton, M. Kiaee, T. Bryden, B. Dimitrov, A. Cruden, and A. Mortimer
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Authors: J. Holden, H. Van Til, E. Wood, L. Zhu, J. Gonder, and M. Shirk
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Author: A. Hamre
Dissertation: Virginia Polytechnic Institute and State University (December 2017)
2. [Data-Driven Fuel Consumption Estimation: A Multivariate Adaptive Regression Spline Approach](#)
Authors: Y. Chen, L. Zhu, J. Gonder, S. Young, and K. Walkowicz
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3. [Quantifying the Environmental Impacts of Increasing High Occupancy Vehicle Lanes in the United States](#)
Authors: R. Javid, A. Nejat, and K. Hayhoe
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4. Prediction of Individual Social-Demographic Role Based on Travel Behavior Variability Using Long-Term GPS Data
Authors: L. Zhu, J. Gonder, and L. Lin
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5. [Evaluation of Current, Future, and Beyond Li-Ion Batteries for the Electrification of Light Commercial Vehicles: Challenges and Opportunities](#)
Authors: S. Sripad and V. Viswanathan
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6. [On the Distribution of Individual Daily Driving Distances](#)
Authors: P. Plötz, N. Jakobsson, and F. Sprei
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7. [Green Routing Fuel Saving Opportunity Assessment: A Case Study Using Large-Scale Real-World Travel Data](#)
Authors: L. Zhu, J. Holden, E. Wood, and J. Gonder
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8. [Synthesis and Experimental Validation of Battery Aging Test Profiles Based on Real-World Duty Cycles for 48V Mild Hybrid Vehicles](#)
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Author: Zifan Liu
Dissertation: Clemson University (May 2017)
10. [Weather Is Not Significantly Correlated with Destination-Specific Transport-Related Physical Activity Among Adults: A Large-Scale Temporally Matched Analysis](#)
Authors: C. Durand, K. Zhang, and D. Salvo
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11. [Investigation of Transmission Warming Technologies at Various Ambient Conditions](#)
Authors: F. Jehlik, S. Iliev, E. Wood, and J. Gonder
Conference: SAE World Congress (March 2017)
12. [Utilizing Public Vehicle Travel Survey Data Sets for Vehicle Driving Pattern and Fuel Economy Studies](#)
Authors: N. Khemri, H. Ying, J. Supina, and F. Syed
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13. [A Comprehensive Model of Regional Electric Vehicle Adoption and Penetration](#)
Authors: R. Javid and A. Nejat
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14. [Privacy-Enhancing Aggregation of Internet of Things Data via Sensors Grouping](#)
Authors: S. Bennati and E. Pournaras
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15. [Understanding Changes in Youth Mobility](#)
Authors: M. Coogan, N. Nygaard, and R. Weinberger
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16. [Parking Search Caused Congestion: Where's All the Fuss?](#)
Authors: R. Weinberger, A. Millard-Ball, and R. Hampshire
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17. [Parametric Modeling Approach for Economic and Environmental Life Cycle Assessment of Medium-Duty Truck Electrification](#)
Authors: D. Lee and V. Thomas
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18. [Plug-In Hybrid Electric Vehicle LiFePO₄ Battery Life Implications of Thermal Management, Driving Conditions, and Regional Climate](#)
Authors: T. Yuksel, S. Litster, V. Viswanathan, and J. Michalek
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19. [Socio-Technical Smart Grid Optimization via Decentralized Charge Control of Electric Vehicles](#)
Authors: E. Pournaras, S. Jung, H. Zhang, X. Fang, and Lloyd Sanders
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20. [Essays on Travel Demand for Toll Roads](#)
Author: J. Kweun
Dissertation: George Mason University (2017)
21. [Incentivized Data Sharing via Group-Level Privacy-Preservation](#)
Authors: S. Bennati and E. Pournaras
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22. [A Comparative Study of Driving Performance in Metropolitan Regions Using Large-Scale Vehicle Trajectory Data: Implications for Sustainable Cities](#)
Authors: J. Liu, A. Khattak, and X. Wang
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23. [TripEnergy: Estimating Personal Vehicle Energy Consumption Given Limited Travel Survey Data](#)
Authors: J. McNerney, Z. Needell, M. Chang, M. Miotti, and J. Trancik
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Authors: K. Laberteaux, K. Hamza, A. Berger, and C. Brown
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26. Social Travel in the Era of the Smartphone
Author: A. Mondschein
Book: *The Routledge International Handbook of Walking* (2017)
27. Naturalistic Driving Cycle Synthesis by Markov Chain of Different Orders
Authors: Z. Liu, A. Ivanco, and Z. Filipi
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1. [Travel Behavior Dynamics in Space and Time](#)
Author: J. Lee
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2. [License Plate Reader Technology: Transportation Uses and Privacy Risks](#)
Authors: J. Zmud, J. Wagner, and M. Moran
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Authors: B. Limb, T. Bradley, B. Crabb, and R. Zane
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4. [Insulated Catalyst with Heat Storage for Real-World Vehicle Emissions Reduction](#)
Author: R. Daya, M. Singh, J. Hoard, and S. Chanda
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5. [Transit Use by Children and Adolescents: An Overlooked Source of and Opportunity for Physical Activity?](#)
Authors: C. Durand, K. Gabriel, D. Hoelscher, and H. Kohl
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7. [Infrastructure Optimization and Economic Feasibility of In-Motion Wireless Power Transfer](#)
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9. [Value of Storage Technologies for Wind and Solar Energy](#)
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Authors: D. Etherington, A. Rousseau, A. Sokolov, and C. Schmid
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Authors: A. Meintz, J. Gonder, J. Jorgenson, and A. Brooker
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13. [CO2 Emissions Associated with Electric Vehicle Charging: The Impact of Electricity Generation Mix, Charging Infrastructure Availability, and Vehicle Type](#)
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19. [Vehicle and Drive Cycle Simulation of a Vacuum Insulated Catalytic Converter](#)
Authors: R. Daya, J. Hoard, S. Chanda, and M. Singh
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22. [Analyzing Multiday Route Choice Behavior of Commuters Using GPS Data](#)
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Authors: D. Seidl, P. Jankowski, and M. Tsou
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Author: G. Erhardt
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27. [Behavioral Response to Environmental Taxation: Evidence from the Transportation Sector](#)
Author: D. Cerruti
Dissertation: University of Maryland (2016)
28. [Optimization of Roadway Electrification Integrating Wireless Power Transfer: Techno-Economic Assessment and Lifecycle Analysis](#)
Author: B. Limb
Thesis: Utah State University (2016)

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Authors: G. Newmark, P. Haas, J. Pappas, and H. Preservation
Report: Center for Neighborhood Technology (December 2015)
2. [Household Income and Vehicle Fuel Economy in California](#)
Authors: C. Ferrell and D. Reinke
Report: MINETA Transportation Institute (November 2015)
3. [Energy Consumption of Electric Vehicles Based on Real-World Driving Patterns: A Case Study of Beijing](#)
Authors: H. Wang, X. Zhang, and M. Ouyang
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4. [Taxing Vehicle Miles Traveled: The Traffic Choices Experiment in the Puget Sound Region](#)
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5. [Suitability of Synthetic Driving Profiles from Traffic Micro-Simulation for Real-World Energy Analysis](#)
Authors: Y. Hou, E. Wood, E. Burton, and J. Gonder
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6. [Naturalistic Drive Cycle Synthesis for Pickup Trucks](#)
Authors: Z. Liu, A. Ivanco, and Z. Filipi
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7. [Letter from the Editors - Fourth International Symposium on Naturalistic Driving Research](#)
Authors: T. Planek, S. Sinelnikov, J. Thomas, K. Kolosh, and K. Porretta
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8. [Beijing Passenger Car Travel Survey: Implications for Alternative Fuel Vehicle Deployment](#)
Authors: H. Wang, X. Zhang, L. Wu, C. Hou, H. Gong, Q. Zhang, and M. Ouyang
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9. [The Role of Alternative Fuel Vehicles: Using Behavioral and Sensor Data To Model Hierarchies in Travel](#)
Authors: J. Liu, A. Khattak, and X. Wang
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10. [Pavement Performance Evaluation Using Connected Vehicles](#)
Author: R. Bridgelall
Dissertation: North Dakota State University (June 2015)
11. [Data Needs Assessment for Making Transportation Decisions in Virginia](#)
Author: A. Khattak, X. Wang, S. Son, and J. Liu
Report: Virginia Center for Transportation Innovation and Research (June 2015)
12. [Electric Vehicle Charging Integration in Buildings: Local Charging Coordination and DC Grids](#)
Author: J. Van Roy
Report: University of Leuven (May 2015)
13. [Multi-Lab EV Smart Grid Integration Requirements Study](#)
Authors: T. Markel, A. Meintz, K. Hardy, B. Chen, T. Bohn, J. Smart, D. Scoffield, R. Hovsapian, S. Saxena, J. MacDonald, S. Kiliccote, K. Kahl, and R. Pratt
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15. [FASTSim: A Model to Estimate Vehicle Efficiency, Cost, and Performance](#)
Authors: A. Brooker, J. Gonder, L. Wang, E. Wood, S. Lopp, and L. Ramroth
Conference: SAE World Congress (April 2015)
16. [Quantification of Drive Cycle's Rapid Speed Fluctuations Using Fourier Analysis](#)
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17. [Measuring the Benefits of Public Chargers and Improving Infrastructure Deployments Using Advanced Simulation Tools](#)
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18. [Quantifying the Effect of Fast Charger Deployments on Electric Vehicle Utility and Travel Patterns via Advanced Simulation](#)
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19. [Will Your Battery Survive a World with Fast Chargers?](#)
Authors: J. Neubauer and E. Wood
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20. [A Second Life for Electric Vehicle Batteries: Answering Questions on Battery Degradation and Value](#)
Authors: J. Neubauer, E. Wood, and A. Pesaran
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21. [Adaptive Price Control for Electric Vehicle Charging in Smart Grid](#)
Authors: W. Zhong, C. Lu, and R. Yu
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22. [Simulated Real-World Energy Impacts of a Thermally Sensitive Powertrain Considering Viscous Losses and Enrichment](#)
Authors: F. Jehlik, E. Wood, J. Gonder, and S. Lopp
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24. [Spatial Obfuscation of GPS Travel Data](#)
Authors: D. Seidl, P. Jankowski, and M. Tsou
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25. [Multiday GPS Travel Behavior Data for Travel Analysis](#)
Author: RSG
Report: Federal Highway Administration (March 2015)
26. [Transit for All: Achieving Equity in Transit-Oriented Development](#)
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27. [What Is the Level of Volatility in Instantaneous Driving Decisions?](#)
Authors: X. Wanga, A. Khattaka, J. Liua, G. Masghati-Amolib, and S. Sonc
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28. [Archiving Data from New Survey Technologies: Enabling Research with High-Precision Data While Preserving Participant Privacy](#)
Authors: J. Gonder, E. Burton, and E. Murakami
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29. [Performance Targets for Electric Vehicle Batteries](#)
Author: M. Chang
Thesis: Massachusetts Institute of Technology (2015)
30. [Price Control for Electric Vehicle Charging in Smart Grid: Adaptive Dynamic Programming Approach](#)
Authors: W. Zhou, W. Zhong, and R. Yu
Journal: *Journal of the University of Electronic Science and Technology of China* (2015)
31. [Workshop Synthesis: Sampling Issues, Data Quality, and Data Protection](#)
Authors: J. Armoogum and J. Dill
Journal: *Transportation Research Procedia* (2015)
32. [Quantification of Temperature Implications and Investigation of Battery Design Options for Electrified Vehicles](#)
Author: T. Yuksel
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4. [Input Guidelines for Motor Vehicle Emissions Simulator Model](#)
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10. [Utility Factors Derived from Beijing Passenger Car Travel Survey](#)
 Authors: X. Zhang and H. Wang
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11. [Contribution of Road Grade To the Energy Use of Modern Automobiles across Large Datasets of Real-World Drive Cycles](#)
 Authors: E. Wood, E. Burton, A. Duran, and J. Gonder
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12. [An Empirical Study of the Deviation Between Actual and Shortest Travel Time Paths](#)
 Authors: W. Tang and D. Levinson
 Report: Federal Highway Administration (2014)
13. [Case Study of the Real-World Integration of Fuel Cell Plug-In Hybrid Electric Vehicles and Their Effect on Hydrogen Refueling Locations in the Puget Sound Region](#)
 Author: J. Bucher
 Thesis: Colorado State University (2014)
14. [Stochastic Modeling of Battery Electric Vehicle Driver Behavior](#)
 Author: J. Dong and Z. Lin
 Journal: *Transportation Research Record: Journal of the Transportation Research Board* (2014)
15. [Striking the Balance: Privacy and Spatial Pattern Preservation in Masked GPS Data](#)
 Author: D. Seidl
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 Authors: J. Neubauer and A. Pesaran
 Conference: International Electric Vehicle Symposium (November 2013)
2. [Sensitivity of Plug-In Hybrid Electric Vehicle Economics to Drive Patterns, Electric Range, Energy Management, and Charge Strategies](#)

Authors: J. Neubauer, A. Brooker, and E. Wood
Journal: *Journal of Power Sources* (August 2013)

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Authors: P. Attibele, S. Makam, and Y. Lee
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4. [Techno-Economic Analysis of BEV Service Providers Offering Battery Swapping Services](#)
Authors: J. Neubauer and A. Pesaran
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5. [Accounting for the Variation of Driver Aggression in the Simulation of Conventional and Advanced Vehicles](#)
Authors: J. Neubauer and E. Wood
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6. [An Assessment of the System Costs and Operational Benefits of Vehicle-to-Grid Schemes](#)
Author: C. Harris
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2. [A Temporal Assessment of Vehicle Use Patterns and Their Impact on the Provision of Vehicle-to-Grid Services](#)
Authors: C. Harris and M. Webber
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Authors: M. Simpson and T. Markel
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8. [Analyzing Vehicle Fuel Saving Opportunities through Intelligent Driver Feedback](#)
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11. [Predicting the Market Potential of Plug-In Electric Vehicles Using Multiday GPS Data](#)
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12. [Improving Survey Methods Using a New Objective Metric for Measuring Driving Time Variability in Survey and GPS Data](#)
Authors: R. Young and S. Seaman
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13. [Establishing a Secure Data Center with Remote Access](#)
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