Will Recker Professor, Civil and Environmental Engineering University of California, Irvine wwrecker@uci.edu



Refereed Journal Publications and Conference Proceedings:

C.-L. Chung and W. Recker (2014) Potential applications of speed dispersion in defining freeway level of service and air emissions evaluation, Transportation Planning and Technology, 37:2, pp. 219-234.

Allahviranloo M., Chow, J. Y., and W. Recker (2014) Selective vehicle routing problems under uncertainty without recourse, *Transportation Research Part E: Logistics and Transportation Review*, 62, pp. 68-88. [pdf]

Zheng, X. and W. Recker (2013) An adaptive control algorithm for traffic-actuated signals, *Transportation Research*, *Part C*, 30, pp. 93-115. [pdf]

Kang, J. E. and W. Recker (2013) The location selection problem for the Household Activity Pattern Problem, *Transportation Research*, *Part B*, 55, pp. 75-97. [pdf]

Chung, Y. and W. Recker (2013) Spatio-temporal analysis of traffic congestion caused by rubbernecking of freeway accidents, *IEEE Transactions on Intelligent Transportation Systems*, 14, 3, pp. 1416-1422.[pdf]

Kang, J. E., J. Chow and W. Recker (2013) On activity-based network design problems, *Transportation Research, Part B: Methodological*, 57, pp. 398-418. (Also in *Proceedings of 20th International Symposium on Transportation and Traffic Theory*, pp. 157-185) [pdf]

Allahviranloo, M. and W. Recker (2013) Daily activity pattern recognition by using support vector machines with multiple classes, *Transportation Research, Part B*, 58, pp. 16–43.[pdf]

- Chen, A., P. Chootinan, S. Ryu1, M. Lee and W. Recker (2012) An intersection turning movement estimation procedure based on path flow estimator, Journal of Advanced Transportation, 46, pp. 161–176. [pdf]
- **Chow, J. Y. and W. Recker (2012).** Inverse optimization with endogenous arrival time constraints to calibrate the household activity pattern problem, *Transportation Research, Part B: Methodological,* 46, pp. 463-479. [pdf]
- **Chung, Y. and W. Recker (2012).** A methodological approach for estimating temporal and spatial extent of delays caused by freeway accidents, *IEEE Transactions on Intelligent Transportation Systems*, 13, 3, pp. 1454-1461.[pdf]
- **Chung, C.-L. and W. W. Recker (2012).** Evaluation of operational effects of joint managed lane policies, *ASCE Journal of Transportation Engineering*, 138, pp. 882-892. [pdf]
- **Gan, L. P. and W. Recker (2012)** Stochastic pre-planned household activity pattern problem with uncertain activity participation (SHAPP), *Transportation Science*, In press. [pdf]
- **Chung, C.-L. and W. W. Recker (2011)**. Characteristics of speed dispersion and its relationship to fundamental traffic flow parameters, *Transportation Planning and Technology*, In press. [pdf]
- Stephens-Romero, Shane D., Tim M. Brown, Marc Carreras-Sospedra, Jee E. Kang, Jacob Brouwer, Donald Dabdub, Wilfred W. Recker, G. Scott Samuelsen (2011). Projecting full build-out environmental impacts and roll-out strategies associated with viable hydrogen fueling infrastructure strategies, *International Journal of Hydrogen Energy*, 36, pp.14309-14323. [pdf]
- Chen, A., J.-S. Oh, D. Park and W. Recker (2010). Solving the bicriteria traffic equilibrium problem with variable demand and nonlinear path costs, *Applied Mathematics and Computation*, 217, 7, pp. 3020-3031. [pdf]
- **Zheng, X., W. Recker, and L. Chu (2010).** Optimization of control parameters for adaptive traffic-actuated signal control, *Journal of Intelligent Transportation Systems*, 14 (2), pp. 95-108. [pdf]
- **Stephens-Romero, S.D., T.M. Brown, J.E. Kang, W.W. Recker and G.S. Samuelsen, (2010).** Systematic planning to optimize investments in hydrogen infrastructure deployment, *International Journal of Hydrogen Energy*, 35 (10), pp. 4652-4667. [pdf]
- **Nesamani, K. S., Lianyu Chu and Will Recker (2010)**, Policy implications of incorporating hybrid vehicles into high-occupancy vehicle lanes, *Journal of Transportation Systems Engineering and Information Technology*, Vol. 10, Issue 2, pp. 30-41. [pdf]

- **Jin, W. and W. W. Recker (2010)**. An analytical model of multihop connectivity of intervehicle communication systems. *IEEE Transactions on Wireless Communications*, 9(1): pp. 106-112. [pdf]
- **Pavlis, Y. and W. W. Recker (2009)**. A mathematical logic approach for the transformation of the linear conditional piece-wise functions of dispersion-and-store and cell transmission traffic flow models into linear mixed integer form. *Transportation Science*, Vol. 43, No. 1, pp. 1–19. [pdf]
- **Kang, J. E. and W. W. Recker (2009)**. An activity-based assessment of the potential impacts of plug-in hybrid electric vehicles (PHEVs) on energy and emissions using one-day travel data. *Transportation Research, Part D: Transport and Environment,* 14, pp. 541-556. [pdf]
- Chen, A., P. Chootinan, and W. Recker (2009). Norm approximation method for handling traffic count inconsistencies in path flow estimator. *Transportation Research, Part B: Methodological,* 43, pp.852-872 [pdf]
- Chung, C.-L. And W. W. Recker (2009). An approach to assessing freeway lane management hot spots. *Transportation Research Record: Journal of the Transportation Research Board*, 2099, pp. 141-150. [pdf]
- **Recker, W., J. Duan, and H. Wang** (2008). Development of an estimation procedure for an activity-based travel demand model. *Computer-Aided Civil and Infrastructure Engineering*, 23, pp. 483-501. [pdf]
- **Yang, X., and W.W. Recker (2008)**. Evaluation of information applications of a self-organizing distributed traffic information system for a large-scale real-world traffic network. *Computer-Aided Civil and Infrastructure Engineering*, 23, pp.575-595. [pdf]
- **Gan, L. P. and W. Recker (2008)**. A mathematical programming formulation of the Household Activity Rescheduling Problem. *Transportation Research, Part B: Methodologica*l, 42, pp.571-606. [pdf]
- Golob, T. F., W. W. Recker and I. Pavlis (2008). Probabilistic models of freeway safety performance using traffic flow data as predictors. *Safety Science*, 46, pp. 1306-1333. [pdf]
- Recker, W., W.-L. Jin, X. Yang and J. Marca. (2008). Autonet: inter-vehicle communication and network vehicular traffic. *International Journal of Vehicle Information and Communication Systems*,1, 3-4, pp 306-319. [pdf]
- **Liu, H. X., X. He and W. Recker (2007)**. Estimation of the time-dependency of values of travel time and its reliability from loop detector data. *Transportation Research, Part B: Methodological*, 41, pp.448-461. [pdf]

- **Jin, W. and W. Recker (2007)**. Monte Carlo simulation model of intervehicle communication. *Transportation Research Record: Journal of the Transportation Research Board*, 2000, pp. 8-15. [pdf]
- Chen, A., S. Kongsomsaksakul, Z. Zhou, M. Lee and W. Recker (2007). Assessing network vulnerability of degradable transportation systems: An accessibility-based approach. *Proceedings of the 17th International Symposium of Transportation and Traffic Theory*, Elsevier. Edited by M.G.H. Bell, B. Heydecker, and R. Allsop, pp. 236-262.
- Chen, A., S. Pravinvongvuth, P. Chootinan, M. Lee and W. Recker (2007). Strategies for selecting additional traffic counts for improving O-D trip table estimation. *Transportmetrica*, 3(3), 191-211. [pdf]
- **Yu, X-H. and W. Recker (2006)**. Stochastic adaptive control model for traffic signal systems. *Transportation Research, Part C: Emerging Technologies*, 14, pp. 263-282. [pdf]
- Yang, X. and W. Recker (2006). Modeling dynamic vehicle navigation in a self-organizing, peer-to-peer, distributed traffic information system. *Journal of Intelligent Transportation Systems: Technology, Planning, Operations*, Volume 10, Issue 4, pp. 185-204. [pdf]
- Yang, X. and W. Recker (2006). Simulation studies of information propagation in a self-organizing distributed traffic information system. *Transportation Research, Part C: Emerging Technologies*, 13, 5-6, pp. 370-390. [pdf]
- Lee, M., A. Chen, P. Chootinan, W. Laabs, and W. Recker (2006). Modeling network traffic for planning applications in a small community. *ASCE Journal of Urban Planning and Development*, 132(3), 156-159. [pdf]
- **Chootinan, P., A. Chen , and W. Recker (2006).** Improved path flow estimator for estimating origin-destination trip tables, *Transportation Research Record*, 1923, pp. 9-17.
- **Brownstone, D., W. Recker and C. Breiland (2006)**. The impacts of allowing hybrid vehicles and solo toll-paying vehicles in existing high-occupancy vehicle lanes. *Proceedings, 11th International Conference on Travel Behaviour Research*, Kyoto, Japan. August 2006.
- **Jin, W. and W. W. Recker (2006)**. Instantaneous information propagation in a traffic stream through inter-vehicle communication. *Transportation Research, Part B: Methodological*, Volume 40, Issue 3, pp. 230-250. [pdf]
- Recker, W., H. M. Zhang, L. Chu, A. Chen, M. McNally (2006). Development of methods and tools for managing traffic congestion in freeway corridors. *Proceedings*.

- *IEEE Intelligent Transportation Systems Society Conference.* Toronto, Canada. September 2006.
- Chu, L., H.-K. Kim, Y. Chung and W. Recker (2005). Evaluation of effectiveness of automated workzone information systems, *Transportation Research Record*, 1911, pp.73-81.
- Nie, Yu, H.M. Zhang and W.W. Recker (2005). Inferring origin—destination trip matrices with a decoupled GLS path flow estimator. *Transportation Research Part B: Methodological*, Volume 39, Issue 6, July 2005, pp. 497-518. [pdf]
- Chen, A., P. Chootinan, and W. Recker (2005). Examining the quality of synthetic origin—destination trip table estimated by path flow estimator. *Journal of Transportation Engineering*, American Society of Civil Engineers, Vol 131, No. 7, pp. 506-513; also presented at IEEE 5th International Conference on Intelligent Transportation Systems, Singapore, September 3-6, 2002. [pdf]
- **Pavlis Y, and W. Recker (2004)**. Inconsistencies in the problem of optimal signal control for surface street networks, *Proceedings, 7th International IEEE Conference on Intelligent Transportation Systems*, Washington DC, U.S.A., October 3-6, 2004, pp. 361-366.
- **Liu, H. X., W. W. Recker and A. Chen (2004)**. Uncovering the contribution of travel time reliability to dynamic route choice using real-time loop data. *Transportation Research, Part A: Policy and Practice*, 38, 435-453. [pdf]
- **Golob, T. F. and W. W. Recker (2004)**. A method for relating type of crash to traffic flow characteristics on urban freeways. *Transportation Research, Part A: Policy and Practice*, 38, pp. 53-80. [pdf]
- **Oh, J.-S., C. Cortes and W. Recker (2004)**. Effects of less-equilibrated data on travel choice model estimation. *Transportation Research Record*, 1831, pp. 131-140.
- **Golob, T. F., W. W. Recker and V. M. Alvarez (2004)**. A tool to evaluate the safety effects of changes in freeway traffic flow. *Journal of Transportation Engineering, American Society of Civil Engineers*, vol. 130, no. 2, pp. 222-230. [pdf]
- Chu, L., X. Liu., W. Recker, and H. M Zhang (2004). Performance evaluation of adaptive ramp metering algorithms in paramics simulation. *Journal of Transportation Engineering, American Society of Civil Engineers*, vol. 130, no. 3, pp. 330-338. [pdf]
- Chu, L, H. X. Liu, and W. Recker (2004). Using microscopic simulation to evaluate potential intelligent transportation system strategies under nonrecurrent congestion. *Transportation Research Record: Journal of the Transportation Research Board*, 1886, pp 76-84.

- Golob, T. F., W. W. Recker and V. M. Alvarez (2003). Safety aspects of freeway weaving sections. *Transportation Research, Part A: Policy and Practice*, 38, pp. 35-51. [pdf]
- Golob, T. F., W. W. Recker and V. M. Alvarez (2003). Freeway safety as a function of traffic flow. *Accident Analysis and Prevention*, 36: pp. 933-946. [pdf]
- Chu, L, H. X. Liu, J.-S. Oh and W. Recker (2003). A calibration procedure for microscopic traffic simulation. *Proceedings, IEEE 6th International Conference on Intelligent Transportation Systems* Shanghai, October 3-6.
- **Golob, T. F. and W. W. Recker (2003)**. Relationships among urban freeway accidents, traffic flow, weather and lighting conditions. *Journal of Transportation Engineering, American Society of Civil Engineers*, vol. 129, no. 4, pp. 342-353. [pdf]
- **Chootin, P., A. Chen and W.W. Recker (2002)**. Applications of path flow estimator for estimating origin-destination trip tables. *Proceedings*, 7th Hong Kong Society of Transportation Studies Conference, December 2002.
- Chen, A., Z. Ji and W.W. Recker (2002). Effect of route choice models on estimation of travel time reliability under demand and supply variations. *Proceedings, First International Symposium on Transportation Network Reliability*, Kyoto.
- Chen, A., Z. Ji and W.W. Recker (2002). Travel time reliability with risk-sensitive travelers. *Transportation Research Record*, 1783, pp. 178-187.
- Chu, L., Liu, X. and W. Recker (2002). Capability-Enhanced Paramics simulation with developed API library. *Proceedings, ITS World Congress*, Chicago, Illinois.
- **Chen, A., P. Chootinan and W. Recker (2002)**. Examining quality of path flow estimator via total demand scale. *Proceedings, IEEE 5th International Conference on Intelligent Transportation Systems*, Singapore, September 3-6.
- Yang, X., L. Chu and W. Recker (2002). GA-based parameter optimization for the ALINEA ramp metering control. *Proceedings, IEEE 5th International Conference on Intelligent Transportation Systems*, Singapore, September 3-6.
- **Liu, H., J.-S. Oh and W. Recker (2002)**. Adaptive signal control system with on-line performance measure. *Transportation Research Record 1811*, pp 131-138.
- **Abdulhai, B., H. Porwal and W. Recker (2002)**. Short term traffic flow prediction using neuro-genetic algorithms. *Intelligent Transportation Systems Journal*, Vol. 7, No. 1, pp3-41, January-March 2002. [pdf]

- **Abdulhai, B., J. Sheu, and W. Recker (2002)**. Development and performance evaluation of an ITS-ready microscopic traffic model for Irvine, California. *Intelligent Transportation Systems Journal*, Vol. 7, No. 1, pp79-102, January-March 2002. [pdf]
- **Recker, W.W. (2001)**. A bridge between travel demand modeling and activity-based travel analysis. *Transportation Research*, *Part B: Methodological*, 35, 481-506. [pdf]
- **Recker, W.W., C. Chen and M.G. McNally (2001)**. Measuring the impact of efficient household travel decisions on potential travel time savings and accessibility gains. *Transportation Research, Part A: Policy and Practice*, 35, 339-369. [pdf]
- **Pavlis, Y. and W. Recker (2001)**. A methodological framework for integrated control in corridor networks. *Proceedings, IEEE Conference on Intelligent Transportation Systems*, Oakland, CA, 637-642. [pdf]
- Conroy, P., S. Shladover, J. Dahlgren, W. Recker, S. Ritchie and P. Varaiya. (2000). Intelligent Transportation Systems: Research products for Public Works Professionals. *Public Works Management & Policy*, 5, 1, pp. 3-13.
- **Recker, W.W. and A. Parimi (1999).** Development of a microscopic activity-based framework for analyzing the potential impact of TCMs on vehicle emissions. *Transportation Research, Part D: Transport and Environment,* 4, 357-378. [pdf]
- **Zhang, H. M. and W. W. Recker (1999).** On optimal freeway ramp control policies for congested traffic corridors. *Transportation Research, Part B: Methodological*, 33, 6, 417-436. [pdf]
- **Sun, C., W. Recker, S. Ritchie, B. Gallagher and J. Thai (1997).** OAK-TREE: One-of-A-Kind Traffic Research and Education Experiment. *Transportation Research Record*, 1603, pp. 106-111.
- **Leonard, J.D. and W.W. Recker (1997)**. A streamlined methodology for application of TRANSYT-7F. *ITE Journal*, 67, 2, pp. 26-35.
- **Zhang, H., S. Ritchie and W. Recker (1996)**. Some general results on the optimal ramp control problem. *Transportation Research Part C: Emerging Technologies*, 4, 2, pp. 51-69. [pdf]
- Recker, W.W., B.V. Ramanathan, X-H Yu, and M.G. McNally (1995). Markovian real-time adaptive control of signal systems. *Mathematical and Computer Modelling Journal*, 22, 4-7, pp. 355-375.
- McDonnell, J., D. Fogel, L. Fogel, C. Rindt and W. Recker (1995). Evolving optimal ramp control rules. *International Journal of Expert Systems*, 8, 3, pp. 287-308.

- **McDonnell, J., D. Fogel, C. Rindt, W. Recker and L. Fogel (1995)**. Using evolutionary programming to control metering rates on freeway ramps. In *Evolutionary Algorithms in Management Applications*, J. Biethan and V. Nissen eds., Springer, Berlin, pp. 305-327.
- **Recker, W.W.** (1995). Discrete choice with an oddball alternative. *Transportation Research*, 29B, 3, pp. 201-211. [pdf]
- **Recker, W.W. (1995).** The Household Activity Pattern Problem: General formulation and solution. *Transportation Research*, 29B, 1, pp. 61-77. [pdf]
- Recker, W.W., R. Jayakrishnan, S. Ritchie and K.H. Kim (1995). The California ATMS Testbed Research Program: An Overview. *Proceedings, IVHS America Annual Conference*, Washington, D.C.
- **Cheu, R.L., W.W. Recker and S.G. Ritchie** (1994). Calibration of INTRAS for simulation of 30-second loop detector output. *Transportation Research Record* 1457, pp. 108-116.
- Adler, J.L., W.W. Recker and M.G. McNally (1993). A conflict model and interactive simulator (FASTCARS) for predicting enroute driver behavior in response to real-time traffic condition information. *Transportation*, 20, pp. 83-106.
- Adler, J.L., M.G. McNally and W.W. Recker (1993). Interactive simulation for modeling dynamic driver behavior in response to ATIS. *Proceedings of the ASCE Fifth International Conference on Computing in Civil and Building Engineering*, American Society of Civil Engineers, New York, N.Y., pp. 591-598.
- Adler, J.L., W.W. Recker and M.G. McNally (1993). Using interactive simulation to model driver behavior under ATIS. *Proceedings of the Fourth International Conference on Micromputers in Transportation*, Baltimore, MD, pp. 344-355.
- **Ritchie, S.G., R.L. Cheu, and W.W. Recker (1992).** Freeway incident detection using artificial neural networks. *Proceedings, International Conference on Artificial Intelligence Applications in Transportation Engineering*, San Bueneventura, California.
- **Leonard, J.D., B. Ramanathan and W.W. Recker (1992)**. A real-time information processing algorithm for the evaluation and implementation of ATMS strategies. *Proceedings, IEEE/SAE Conference on Intelligent Vehicles*, Detroit.
- Cheu, R.L., S. G. Ritchie, W.W. Recker and B. Bavarian (1991). Investigation of a neural network model for freeway incident detection. In *Artificial Intelligence and Civil and Structural Engineering*, B.H.V. Topping, ed., Civil-Comp Press, pp.267-274

- Golob, T.F., W.W. Recker and D.W. Levine (1990). Safety of freeway median high occupancy vehicle lanes: The comparison of aggregate and disaggregate analyses. *Accident Analysis and Prevention*, 22, 1, pp. 19-34. [pdf]
- **Leonard, J.D. and W.W. Recker (1989)**. Advances in the PC interface of the TRANSYT-7F traffic simulation model. *Proceedings, 59th Annual Meeting of the Institute of Transportation Engineers*, San Diego.
- **Golob, T.F., W.W. Recker and D.W. Levine (1989)**. Safety of High Occupancy Vehicle lanes without physical separation. *ASCE Journal of Transportation Engineering*, 115, 6, pp. 591-607. [pdf]
- **Levine, D.W., T.F. Golob and W.W. Recker (1988)**. Accident migration associated with lane-addition projects on urban freeways. *Traffic Engineering and Control*, 29, 12, pp. 624-629.
- McNally, M.G., W.W. Recker and R.F. Teal (1988). Estimating unmet travel needs using secondary data sources. *Transportation Research Record*, 1202, pp. 88-98.
- **Golob, T.F. and W.W. Recker (1987)**. An analysis of truck-involved freeway accidents using log-linear modeling. *Journal of Safety Research*, 18, pp. 121-136.
- **Recker, W.W., T.F. Golob, M.G. McNally and J.D. Leonard (1987).** Dynamic tests of a time-space model of complex travel behavior. *Travel Behavior Research*, International Association of Travel Behavior, pp. 27-40.
- **Golob, T.F. and W.W. Recker (1987)**. Dynamic analyses of complex travel behavior using a sample of the Dutch National Mobility Panel. *Proceedings, Round Table Conference on the Analysis of Panel Data*, The Hague.
- Golob, T.F., W.W. Recker and J.D. Leonard (1987). An analysis of the severity and incident duration of truck-involved freeway accidents. *Accident Analysis and Prevention*, 19, No. 5, pp. 375-395. [pdf]
- **Golob, T.F., and W.W. Recker (1987)**. An analysis of the salient characteristics of truck-involved freeway accidents using the method of log-linear modeling. *Journal of Safety Research*, 18, No. 3. [pdf]
- **Leonard, J.D. and W.W. Recker (1987)**. A procedure for the assessment of traffic impacts during freeway reconstruction. *Transportation Research Record*, 1132, pp. 14-24.
- **Recker, W.W., G.S. Root and M.G. McNally (1987)**. An empirical analysis of urban activity patterns. *Geographical Analysis*, 19, 2, pp. 166-181. [pdf]

- **Recker, W.W., G.S. Root and M.G. McNally (1986)**. A model of complex travel behavior: Part I--theoretical development. *Transportation Research*, 20A, 4, pp. 307-318. [pdf]
- **Recker, W.W., M.G. McNally and G.S. Root (1986)**. A Model of complex travel behavior: Part II--An operational model. *Transportation Research*, 20A, 4, pp. 319-330. [pdf]
- **Recker, W.W., G.S. Root and M.G. McNally (1986)**. Classification analysis of traffic improvement sites. *Journal of Transportation Engineering*, ASCE, 112, TE2, pp. 184-198. [pdf]
- **Recker, W.W., M.G. McNally and G.S. Root (1985).** Travel/activity analysis: pattern recognition, classification and interpretation. *Transportation Research*, 19A, 4, pp. 279-296. [pdf]
- Recker, W.W., M.G. McNally and G.S. Root (1985). Flyovers and the high flow arterial concept. *Journal of Transportation Engineering*, ASCE, 111, TE2, pp. 139-154.
- **Recker, W.W. and M.G. McNally (1985)**. An activity-based modeling framework for transportation policy evaluation. *Behavioral Research for Transportation Policy*, VNU Science Press, Utrecht, pp. 31-62.
- **Recker, W.W. and R. Kitamura (1984)**. Activity based travel analysis. *Transportation and Mobility in an Era of Transition*, G.R.M. Jansen, P. Nijkamp, and G.J. Ruijgrok, eds., North Holland/Elsevier, Amsterdam, pp. 157-183.
- **Recker, W.W., M.G. McNally and G.S. Root (1983)**. A Methodology for activity-based travel analysis: The STARCHILD model. *Proceedings, Thirteenth North American Meeting of the Regional Science Association*.
- **Recker, W.W., G.S. Root and M.G. McNally (1983)**. Activity-based approaches to modeling complex travel behavior: Issues and challenges. *Proceedings, Transportation Planning Research Colloquium*, Delft.
- **Recker, W.W. and H.J. Schuler (1982)**. Marketing implications of perceptions of transit. *Transportation Engineering Journal of ASCE*, 108, TE6, pp. 650-661.
- **Recker, W.W. and H.J. Schuler (1982)**. An integrated analysis of complex travel behavior and urban form indicators. *Urban Geography*, 3, 2, pp. 110-120.
- **Recker, W.W., G.S. Root, and M.G. McNally (1981)**. An empirical analysis of the impact of energy restrictions on the execution of activity patterns. *Transportation Research Forum*, 22, 1, pp. 80-95.

- **Root, G.S. and W.W. Recker (1981)**. Toward a dynamic model of individual activity pattern formulation. *Recent Advances in Travel Demand Analysis,* S. Carpenter and P. Jones, eds., Gower, pp. 371-382.
- **Recker, W.W., M.G. McNally and G.S. Root (1981)**. Application of pattern recognition theory to activity pattern analysis. *Recent Advances in Travel Demand Analysis*, S. Carpenter and P. Jones, eds., Gower, pp. 434-449.
- **Recker, W.W. and H.J. Schuler (1981)**. Spatial choice and information processing: A comparison of modeling approaches. *Economic Geography*, 57, 4, pp. 373-383.
- **Gensch, D.H., T.F. Golob and W.W. Recker (1979)**. The multinomial multi-attribute logit choice model. *Journal of Marketing Research*, 16, pp. 124-132.
- **Recker, W.W. and T.F. Golob (1979)**. A non-compensatory model of transportation behavior based on sequential consideration of aspects. *Transportation Research*, 13B, pp. 269-280. [pdf]
- **Recker, W.W. and H.J. Schuler (1978).** Sex differences in travel preference and decision making. *Proceedings, Conference on Women's Travel Issues*, U.S. Department of Transportation, Washington, DC.
- **Recker, W.W. and L.P. Kostyniuk (1978)**. Factors influencing destination choice for the urban grocery shopping trip. *Transportation*, 7, pp. 19-33.
- **Recker, W.W. and R.F. Stevens (1977)**. An attitudinal travel demand model for non-work trips of homogeneously constrained segments of a population. *Transportation Research*, 11, pp. 167-176. [pdf]
- **Recker, W.W. and P.H. Edelstein (1977)**. Travel demand of an elderly population: An attitudinal model and some comparisons. *Transportation Research Forum*, 18, 1.
- **Golob, T.F. and W.W. Recker (1977)**. Mode choice forecasting using attitudinal data: A procedure and some results. *Transportation*, 6, pp. 265-286.
- **Recker, W.W. and T.F. Golob (1976)**. An attitudinal modal choice model. *Transportation Research*, 10, pp. 299-310.
- **Recker, W.W. and R.F. Stevens (1976)**. Attitudinal models of modal choice: The multinomial case for selected non-work trips. *Transportation*, 5, pp. 355-375.
- **Kostyniuk, L.P. and W.W. Recker (1976).** Effect of a gasoline shortage on acceptance of modes for the urban grocery shopping trip. *Journal of Environmental Systems*, 6, 1, pp. 1-30.

- **Paaswell, R.E., W.W. Recker and V. Milione (1976).** Profile of a carless population. *Transportation Research Record*, 578, pp. 16-28.
- **Gensch, D.H., T.F. Golob and W.W. Recker (1976)**. Regression is inappropriate for analyzing cross-sectional multiattribute data. *Proceedings, American Marketing Association Conference*.
- **Recker, W.W. and G.C. Lee (1976).** Attitudinal variables in civil engineering design. *Journal of Engineering Issues, Trans. American Society of Civil Engineers*, 102, TE1, pp. 56-65.
- **Lung, S. and W. W. Recker (1976).** An algorithm for route-deviation service. *Transportation Engineering Journal, Trans. American Society of Civil Engineers*, 102, TE1, pp. 161-176.
- **Recker, W.W. and T.F. Golob (1975)**. A behavioral travel demand model incorporating choice constraints. *Advances in Consumer Research*, 3, pp. 416-424.
- **Golob, T.F. and W.W. Recker (1975)**. Attitude-behavior models for public systems planning and design. *Proceedings, American Society of Civil Engineers Specialty Conference on Human Factors in Civil Engineering*, Buffalo, N.Y.
- **Recker, W.W., G.C. Lee and R.E. Paaswell (1974)**. A Program in Social and Urban Systems Engineering. *Engineering Education*.
- **Paaswell, R.E. and W.W. Recker (1974)**. Location of the carless. *Transportation Research Record*, 516, pp. 11-20.
- **Paaswell, R.E. and W.W. Recker (1973)**. Accessibility of health care. *Proceedings, 8th Annual Urban Symposium*, Association for Computing Machinery, pp. 49-58.
- **Recker, W.W. (1972)**. A difference method for plane problems in magnetoelastodynamics. *Journal of Applied Mechanics, Transactions, American Society of Mechanical Engineers*, 39, 3, pp. 689-695.
- **Recker, W.W. (1972)** A discontinuity expansion solution to plane problems in magnetoelasto- dynamics. *Journal of Sound and Vibration*, 23, 1, pp. 41-53.
- **Leonard, J.W. and W.W. Recker (1972).** Nonlinear dynamics of cables with low initial tension. *Journal of Engineering Mechanics Division*, American Society of Civil Engineers, Vol. 98, No. EM2, pp. 293-309.
- **Recker, W.W. and R.A. Galganski (1972)**. The asymptotic dynamic response of a beam on an elastic foundation to a randomly moving load. *Journal of the Franklin Institute*, 293, 1, pp. 47-52.

Paaswell, R.E. and W.W. Recker (1971). Computer modeling of a small area transportation service. *Proceedings*, 6th Annual Urban Symposium, Association for Computing Machinery, pp. 128-137.

Recker, W.W. (1971) A numerical solution of axisymmetric problems in elastodynamics. *International Journal of Numerical Methods in Engineering*, 3, pp. 361-377.

Recker, W.W. (1971) Series solution to problems in elastodynamics. *Journal of Engineering Mechanics Division*. American Society of Civil Engineers, 97, EM4, pp. 1257-1275.

Recker, W.W. and R. Skop (1971). Plane near-field response of an elastic plate. *Experimental Mechanics*, 11,7, pp. 321-324.

Recker, W.W. (1970) Asymptotic dynamic response of a taut string on an elastic foundation to a randomly moving load. *Journal of the Acoustical Society of America*, 48, 1, pp. 313-316.

Recker, W.W. (1970) A numerical solution of three-dimensional problems in dynamic elasticity. *Journal of Applied Mechanics*, Transactions, American Society of Mechanical Engineers, pp. 116-122.

Recker, W.W. (1969) On the dynamic response of an infinite rod to a randomly moving torque. *Journal of Applied Mechanics*. Transactions, American Society of Mechanical Engineers, 36,4, pp. 896-897.