

## Daniel J. Dailey

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### Research Interests

Intelligent transportation systems, quantitative methods for modeling of physical phenomena, distributed computing and communications applied to information technology, and data fusion.

### Employment History

Professor (Research Track), Department of Electrical Engineering, Director ITS Program, College of Engineering, University of Washington, Seattle, WA, 2003 to Present.

Associate Professor (Research Track), Department of Electrical Engineering, Director ITS Program, College of Engineering, University of Washington, Seattle, WA, 1998 to 2003.

Assistant Professor (Research Track), Department of Electrical Engineering, University of Washington, Seattle, WA, 1992 to 1998.

Adjunct Professor, Department of Civil and Environmental Engineering, University of Washington, Seattle, WA, 1996 to Present.

Adjunct Professor, Department of Technical Communication, University of Washington, Seattle, WA, 1993 to 2001.

Director of Computing, College of Engineering, University of Washington, Seattle, WA, 1986-1994.

### Education

**Ph.D.** University of Washington (May 1988)

**M.S.** University of Washington (January 1982)

**B.S.** Pennsylvania State University (March 1978)

### Peer Reviewed Journal Articles

"Prediction of Traffic Slowing using NexRad Radar Measurements," *IEEE Transactions on Intelligent Transportation Systems*, D.J. Dailey, In Preparation.

"A Prescription for Automated Calibration of Roadside Cameras to Measure Traffic Parameters," F.W. Cathy and D.J. Dailey, *IEEE Transactions on Intelligent Transportation Systems*, In Review, 2006.

"A Cross-Correlation Tracking Technique for Extracting Speed from Cameras Under Adverse Conditions," T.N. Schoepflin and D.J. Dailey, *Transportation Research Record*, 1867, 36-45, 2004.

"Dynamic Camera Calibration of Roadside Traffic Management Cameras," T.N. Schoepflin and D.J. Dailey, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 4: No. 2, pp. 90-98, June 2003.

"A Prescription for Transit Arrival/Departure Prediction using AVL Data," F.W. Cathy and D.J. Dailey, *Transportation Research C*, vol. 11C, No. 3-4, June-Aug, pp. 241-264, 2003.

"An Algorithm for Detecting and Correcting Errors in Archived Traffic Data," Z. Wall and D.J. Dailey, *Transportation Research Record 1855*, pp 183-190, 2003.

"Estimating Corridor Travel Time by Using Transit Vehicles as Probes," F.W. Cathy and D.J. Dailey, *Transportation Research Record 1855*, pp. 60-65, 2003.

“Correlation Technique for Estimating Traffic Speed from Cameras,” T.N. Schoepflin and D.J. Dailey, *Transportation Research Record 1855*, pp. 63-73, 2003.

“Wireless Internet Access to Real-Time Transit Information,” S.D. Maclean and D.J. Dailey, *Transportation Research Record 1791*, pp. 92-98, 2002.

“Transit Vehicles as Traffic Probe Sensors,” F.W. Cathey and D.J. Dailey, *Transportation Research Record 1804*, pp. 23-30, 2002.

“Dynamic Camera Calibration in Support of Intelligent Transportation Systems,” S. Pumrin and D.J. Dailey, *Transportation Research Record 1804*, pp. 77-84, 2002.

“Self Describing Data Transfer Model in Intelligent Transportation Systems Applications,” D.J. Dailey, S. Maclean, F.W. Cathey, and D. Meyers, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 3, No. 4, pp. 293-300, December 2002.

“TDAD: An ITS Archived Data User Services (ADUS) Data Mine,” D.J. Dailey and L. Pond, *Transportation Research Record, Transportation Data and Information Technology 1768*, pp. 162-171, 2001.

“Transit Vehicle Arrival Prediction: An Algorithm and a Large Scale Implementation,” D.J. Dailey, S.D. Maclean, F.W. Cathey, and Z. Wall, *Transportation Research Record, Transportation Network Modeling 1771*, pp. 46-51, 2001.

“Irregularly Sampled Transit Vehicles Used as a Probe Vehicle Traffic Sensor,” C. Elango and D.J. Dailey, *Transportation Research Record 1719*, pp. 33-44, 2000.

“An Algorithm to Estimate Traffic Speed Using Un-calibrated Cameras,” D.J. Dailey and L. Li, *Transportation Research Record 1719*, pp. 27-32, 2000.

“An Algorithm to Estimate Mean Traffic Speed Using Un-Calibrated Cameras,” D.J. Dailey, F. Cathey, and S. Pumrin, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 1, No. 2, pp. 98-107, June 2000.

“A Self Describing Data Transfer Methodology for ITS Applications,” D.J. Dailey, D. Meyers, and N. Friedland, *Transportation Research Record 1660*, pp. 140-147, 1999.

“Seattle Smart Traveler: Dynamic Ridesharing on the World Wide Web,” D.J. Dailey, D. Loseff and D. Meyers, *Transportation Research C*, Vol. 7, pp. 17-32, February 1999.

“A Statistical Algorithm for Estimating Speed from Single Loop Volume and Occupancy Measurements,” D.J. Dailey, *Transportation Research B*, Vol. 33B, No. 5, pp. 313-22, June 1999.

“A Structured Approach to Developing Real-Time, Distributed Network Applications for ITS Deployment,” D.J. Dailey, M.P. Haselkorn, and D. Meyers, *ITS Journal*, Vol. 3, No. 3, 1996.

“A Metric for Quantifying Response Time in a Browser Application,” D.J. Dailey and J.F. Brinkley, *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 26, No. 2, pp. 271-5, 1996.

“A Method For GPS Positioning,” D.J. Dailey and B.M. Bell, *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 32, No. 3, pp. 1148-54, 1996.

“Travel-Time Estimates Using Cross-Correlation Techniques,” D.J. Dailey, *Transportation Research B*, Vol. 27B, No.2, pp. 97-107, 1993.

“Parameterization of In-core PWR Signals for Use with Pattern Recognition Techniques,” D.J. Dailey and R.W. Albrecht, *Progress in Nuclear Energy*, Vol. 21, pp. 653-9, 1988.

“In-core/Ex-core Neutron Noise Measurements to Examine Core Internal Vibrations in an Operating PWR,” D.J. Dailey and R.W. Albrecht, *Progress in Nuclear Energy*, Vol. 15, pp. 251-60, 1985.

“Measurement of Two-Phase Flow Properties Using the Nuclear Reactor Instrument,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, M.J. Damborg, and G. Kosaly, *Progress in Nuclear Energy*, Vol. 9, pp. 37-50, 1982.

“Neutronic Response to Two-Phase Flow in a Nuclear Reactor,” R.W. G. Kosaly, Albrecht, R.D. Crowe, D.J. Dailey, *Progress in Nuclear Energy*, Vol. 9, pp. 23-36, 1982.

## Books

*Wireless Communications for Intelligent Transportation Systems*, S.D. Elliott and D.J. Dailey, Artech House, Inc., Norwood, MA, 1995.

*Proceedings of the IEEE 1995 Vehicular Navigation & Information Systems Conference*, D.J. Dailey, Editor, 1995.

## Peer Reviewed Proceedings

“Algorithms for Calibrating Roadside Traffic Cameras and Estimating Mean Vehicle Speed,” T.N. Schoepflin and D.J. Dailey, *Proceedings of the IEEE 10th International Conference on Intelligent Transportation Systems*, Seattle, WA, 1-3 October, 2007.

“Congestion Prediction based on NexRad Radar with Application to In-vehicle Information,” D.J. Dailey, *Proceedings of the IEEE Intelligent Vehicles Symposium*, Istanbul, Turkey, 13-15 June, 2007.

“Mathematical Theory of Image Straightening with Applications to Camera Calibration,” F.W. Cathey and D.J. Dailey, *Proceedings of the IEEE 9th International Conference on Intelligent Transportation Systems*, Toronto, Canada, 18-20 September, 2006.

“Simulation for Traffic Parameter Prediction,” Z.R. Wall and D.J. Dailey, *Proceedings of the IEEE Intelligent Vehicles Symposium*, Tokyo, Japan, 13-16 June, 2006.

“A Microscopic Traffic Simulator for Simulation in the Loop Freeway Ramp Control,” Z.R. Wall and D.J. Dailey, *Proceedings of the Transportation Research Board 85<sup>th</sup> Annual Meeting*, Washington, DC, 2006.

“Implementation of Traffic Management Using Transit Probes,” F.W. Cathey and D.J. Dailey, *Proceedings of the IEEE 8th International Conference on Intelligent Transportation Systems*, Vienna, Austria 13-16 September, 2005.

“A Novel Technique to Dynamically Measure Vehicle Speed using Un-calibrated Roadway Cameras,” F.W. Cathey and D.J. Dailey, *Proceedings of the IEEE Intelligent Vehicles Symposium*, Las Vegas, NV, 6-8 June, 2005.

“One-Parameter Camera Calibration for Traffic Management Cameras,” F.W. Cathey and D.J. Dailey, *Proceedings of the IEEE 7th International Conference on Intelligent Transportation Systems*, Washington, DC, 4-6 October, 2004.

“Algorithms for Calibrating Roadside Traffic Cameras and Estimating Mean Vehicle Speed,” T.N. Schoepflin and D.J. Dailey, *Proceedings of the IEEE International Symposium on Intelligent Vehicles 2004*, Parma, Italy, 14-17 June, 2004.

“An Algorithm for Extracting Shock Wave Propagation Features from Inductance Loop Data for use in Model Validation,” Z. Wall and D.J. Dailey, *Proceedings of the Transportation Research Board 83<sup>rd</sup> Annual Meeting*, Washington, DC, 11-15 January, 2004.

“A Cross-Correlation Tracking Technique for Extracting Speed from Cameras Under Adverse Conditions,” T.N. Schoepflin and D.J. Dailey, *Proceedings of the Transportation Research Board 83<sup>rd</sup> Annual Meeting*, Washington, DC, 11-15 January, 2004.

“Design and Realization of a Multi-modal/Multi-Agency Transit Management and Information System,” D.J. Dailey and F.W. Cathey and S.D. Maclean, *Proceedings of the IEEE 6th International Conference on Intelligent Transportation Systems*, Shanghai, China, 12-15 October, 2003.

“Vehicle Image Classification via Expectation-Maximization Algorithm,” S. Pumrin and D.J. Dailey, *Proceedings of the 2003 IEEE International Symposium on Circuits and Systems*, Bangkok, Thailand, 25-28 May 2003.

“An Algorithm for the Detection and Correction of Errors in Archived Traffic Data Caused by Poorly Calibrated Inductance Loop Sensors,” Z. Wall and D.J. Dailey, *Proceedings of the Transportation Research Board 82<sup>nd</sup> Annual Meeting*, Washington, DC, 12-16 January, 2003.

“Corridor Travel Time Using Transit Vehicles as Probes,” F.W. Cathey and D.J. Dailey, *Proceedings of the Transportation Research Board 82<sup>nd</sup> Annual Meeting*, Washington, DC, 12-16 January, 2003.

“A Correlation Technique for Estimating Traffic Speed from Cameras,” T.N. Schoepflin and D.J. Dailey, *Proceedings of the Transportation Research Board 82<sup>nd</sup> Annual Meeting*, Washington, DC, 12-16 January, 2003.

“Measuring the Utility of a Real-Time Transit Information System,” S.D. Maclean and D.J. Dailey, *Proceedings of the IEEE Intelligent Transportation Systems Conference 2002*, Singapore, 3-6 September 2002.

“Virtual Speed Sensors Using Transit Vehicles as Traffic Probes,” D.J. Dailey and F.W. Cathey, *Proceedings of the IEEE Intelligent Transportation Systems Conference 2002*, Singapore, 3-6 September 2002.

“Roadside Camera Motion Detection for Automated Speed Measurement,” S. Pumrin and D. J. Dailey, *Proceedings of the IEEE Intelligent Transportation Systems Conference 2002*, Singapore, 3-6 September 2002.

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“Cell Phone Access to Real-Time Transit Information,” S.D. Maclean and D.J. Dailey, *Proceedings of the Transportation Research Board 81<sup>st</sup> Annual Meeting*, Washington, DC, 13-17 January 2002.

“Transit Vehicles as Traffic Probe Sensors,” F.W. Cathey and D.J. Dailey, *Proceedings of the Transportation Research Board 81<sup>st</sup> Annual Meeting*, Washington, DC, 13-17 January 2002.

“Dynamic Camera Calibration in Support of Intelligent Transportation Systems,” S. Pumrin and D.J. Dailey, *Proceedings of the Transportation Research Board 81<sup>st</sup> Annual Meeting*, Washington, DC, 13-17 January 2002.

“Real-Time Bus Information on Mobile Devices,” S.D. Maclean and D.J. Dailey, *Proceedings of the IEEE Intelligent Transportation Systems Conference 2001*, Oakland, CA, 25-29 August 2001.

“Busview: A Graphical Transit Information System,” S.D. Maclean and D.J. Dailey, *Proceedings of the IEEE 4th International Conference on Intelligent Transportation Systems*, Oakland, CA, 25-29 August 2001.

“Transit Vehicles as Traffic Probe Sensors,” F.W. Cathey and D.J. Dailey, *Proceedings of the IEEE Intelligent Transportation Systems Conference 2001*, Oakland, CA, 25-29 August 2001.

“A General Automata Calibrated with Roadway Data for Traffic Prediction,” Z. Wall, R. Sanchez and D.J. Dailey, *Proceedings of the Transportation Research Board 80<sup>th</sup> Annual Meeting*, Washington, DC, 7-11 January 2001.

“TDAD: An ITS Archived Data User Services (ADUS) Data Mine,” D.J. Dailey and L. Pond, *Proceedings of the Transportation Research Board 80<sup>th</sup> Annual Meeting*, Washington, DC, 7-11 January 2001.

“Transit Vehicle Arrival Prediction: An Algorithm and a Large Scale Implementation,” D.J. Dailey, S.D. Maclean, F.W. Cathey and Z. Wall, *Proceedings of the Transportation Research Board 80<sup>th</sup> Annual Meeting*, Washington, DC, 7-11 January 2001.

“An Algorithm and Implementation to Predict the Arrival of Transit Vehicles,” D.J. Dailey, Z. Wall, S.D. Maclean and F.W. Cathey, *Proceedings of the IEEE Intelligent Transportation Systems Conference*, Dearborn, MI., 1-3 October 2000.

“Irregularly Sampled Transit Vehicles Used as a Probe Vehicle Traffic Sensor,” C. Elango and D.J. Dailey, *Proceedings of the Transportation Research Board 79<sup>th</sup> Annual Meeting*, Washington, DC, 9-13 January 2000.

“An Algorithm to Estimate Vehicle Speed Using Un-Calibrated Cameras,” D.J. Dailey and L. Li, *Proceedings of the Transportation Research Board 79<sup>th</sup> Annual Meeting*, Washington, DC, 9-13 January 2000.

“A Statistical Model for Dynamic Ridematching on the World Wide Web,” D.J. Dailey, *IEEE ITSC 99* Tokyo, Japan, 5-8 October 1999.

“An Algorithm to Estimate Vehicle Speed Using Un-Calibrated Cameras,” D.J. Dailey and L. Li, *IEEE ITSC 99* Tokyo, Japan, 5-8 October 1999.

“An Algorithm for Predicting Arrival Time of Mass Transit Vehicles using AVL,” Z. Wall and D.J. Dailey, *Proceedings of the Transportation Research Board 78<sup>th</sup> Annual Meeting*, Washington, DC, 10-14 January 1999.

“A Self Describing Data Transfer Methodology for ITS Applications,” D.J. Dailey, D. Meyers, and N. Friedland, *Proceedings of the Transportation Research Board 78<sup>th</sup> Annual Meeting*, Washington, DC, 10-14 January 1999.

“A Self Describing Data Transfer Methodology for ITS Application,” D.J. Dailey and D. Meyers, *Proceedings of the IEEE ITS Conference*, Presented in Boston, Massachusetts, 10-13 November 1997.

“Seattle Smart Traveler,” D.J. Dailey, D. Loseff, D. Meyers, and M.P. Haselkorn, *Proceedings of the Transportation Research Board 76<sup>th</sup> Annual Meeting*, Washington, DC, 12-16 January 1997.

“Travel-Time Estimate Using a Series of Single Loop Volume and Occupancy Measurements,” D.J. Dailey, *Proceedings of the Transportation Research Board 76<sup>th</sup> Annual Meeting*, Washington, DC, 12-16 January 1997.

“An Optimal Recursive Estimator for Detecting Traffic Anomalies Using Real-Time Inductance Loop Data,” D.J. Dailey, *Proceedings of the Transportation Research Board 73<sup>rd</sup> Annual Meeting*, Washington, DC, 9-13 January 1994.

“Performance Evaluation of a Distance Learning Program,” D.J. Dailey, K. Eno, and J.F. Brinkley, *Proceedings of the 18th Annual Symposium on Computer Applications in Medical Care*, pp. 76-80, Washington, DC, 5-9 November 1994.

“A Network Model for Wide Area Access to Structural Information” D.J. Dailey, K. Eno, G.L. Zick, and J.F. Brinkley, *Proceedings of 17th Annual Symposium on Computer Applications in Medical Care*, pp. 497-501, 30 October-3 November 1993.

“The Neutron Field in a Reactor Core as a Two-Phase Flow Sensor,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, and G. Kosaly, *Instrumentation in the Aerospace Industry. Vol. 27. Advances in Test Measurement. Vol. 18. Proceedings of the 27th International Instrumentation Symposium*, Vol. 18, Part I, pp. 335-45, 27-30 April 1981.

Applications of Induced Neutronic Fluctuations to 2-Phase Flow Thermal Hydraulics,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, and G. Kosaly, *Transactions of the American Nuclear Society*, Vol. 38, pp. 645-646, 1981.

“2-Phase Flow Characterization by Neutron Noise-Analysis,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, and G. Kosaly, *Transactions of the American Nuclear Society*, Vol. 39, pp. 1003-1005, 1981.

## **Presentation and Proceedings**

“ITS International Best Practices Workshop on Bringing Research Products to Market,” Invited, American Public Transportation Association, Hilton San Francisco Fisherman’s Wharf, November 10-11, 2005

“Inter-vehicle Communication and Simulation for Safety,” AUTOCOM Workshop on Preventive and

Active Safety Systems for Road Vehicles - Invited, Istanbul Technical University, September 19-20, 2005.

“Design and Realization of a Multi-modal/Multi-Agency Transit Management and Information System,” D.J. Dailey, F.W. Cathey, S.D. Maclean, *Inform's Annual Meeting, 2004*, Denver, Colorado, 25-27 October, 2004.

“Data Integration and Web Apps for a Multi-Modal/Multi-Agency Transit,” D.J. Dailey, F.W. Cathey, S.D. Maclean, *Inform's Annual Meeting, 2004*, Denver, Colorado, 25-27 October, 2004.

“Data Integration and Web Applications for a Multi-Modal/Multi-Agency Transit Management and Information System,” F.W. Cathey, D.J. Dailey, and S.D. Maclean, *Proceedings of the Seventh Annual World Congress on Intelligent Transport Systems*, Nagoya, Japan, 18-21 October, 2004.

“The Use of Wireless Internet Service to Access Real-Time Transit Information,” S.D. Maclean and D.J. Dailey, *Proceedings of the 9th Annual World Congress on Intelligent Transport Systems*, Chicago, Illinois, 14-18 November 2002.

“WAP Cell Phone Access to Real-Time Transit Information,” S.D. Maclean and D.J. Dailey, *Proceedings of the ITS America 12th Annual Meeting*, Long Beach, California, 29 April-2 May 2002.

“Dynamic Camera Calibration to Estimate Mean Vehicle Speed,” S. Pumrin and D.J. Dailey, *Proceedings of SPIE Electronic Imaging 2002*, San Jose, California, 20-25 January 2002.

“MyBus: An APTS Based on the US TCIP Standard,” S.D. Maclean and D.J. Dailey, *Proceedings of the Seventh Annual World Congress on Intelligent Transport Systems*, Turin, Italy, 6-9 November 2000.

“Irregularly Sampled Probe Vehicles as a Traffic Sensor,” D.J. Dailey and C. Elango, *Proceedings of the 1999 fall Inform's Meeting*, Philadelphia, Pennsylvania, 7-10 November 1999.

“Busview and Transit Watch: an Update on Two Products from the Seattle Smart Trek Model Deployment Initiative,” D.J. Dailey, G. Fisher, and S. Maclean, *Proceedings of the Sixth Annual World Congress on Intelligent Transport Systems*, Toronto, Canada, 8-12 November 1999.

“Busview and Transit Watch Two Products from the Seattle Smart Trek Model Deployment,” D.J. Dailey, G. Fisher, and S. Maclean, *Proceedings of the ITS America Eighth Annual Meeting*, Washington, DC, 19-22 April 1999.

“Self Describing Data Transfer Methodology in an ITS Standards Environment,” D.J. Dailey and D. Meyers, *ITSC '97 Proceedings*, pp464-71 (Invited), Presented at IEEE Conference in Intelligent Transportation Systems in Boston, Massachusetts, 10-13 November 1997.

“Seattle Smart Traveler,” D.J. Dailey, D. Loseff, D. Meyers, and M.P. Haselkorn, *Proceedings of the Third Annual World Congress on Intelligent Transport Systems*, Orlando, Florida, 14-18 October 1996.

“Data Fusion for Multimodal Traveler Information in a Wireless Environment” D.J. Dailey, H. Xu, and M.P. Haselkorn, *Proceedings of the Third Annual World Congress on Intelligent Transport Systems*, Orlando, Florida, 14-18 October 1996.

“Sensor Data Fusion within a Regional Architecture for ITS Applications,” D.J. Dailey, *IEEE International Symposium on Intelligent Vehicles 1995*, Detroit, Michigan, 25-26 September 1995.

“SWIFT: Technical and Institutional Issues of an Operational Test from a Public Sector Perspective,” D.J. Dailey and M.P. Haselkorn, *Proceedings of the Second World Congress on Intelligent Transport Systems*, Vol. 4, pp. 2140- 5, Yokohama, Japan, 9-11 November 1995.

“Real Time Highway Traffic Simulation and Prediction Using Inductance Loop Data,” H. Xu and D.J. Dailey, *Proceedings of the Vehicular Navigation and Information Systems 1995*, pp. 194-199, Seattle, Washington, 30 July-2 August 1995.

“Demonstration of an Advanced Public Transportation System in the Context of an IVHS Regional Architecture,” D.J. Dailey and M.P. Haselkorn, *First World Congress on Applications of Transport*

*Telematics and Intelligent Highway Systems*, Vol. 6, pp. 3024-31, Palais de Congres de Paris, France, 30 November-3 December 1994.

“Practical Applications in IVHS Communication,” D.J. Dailey, *Proceedings of the Institute of Traffic Engineers Annual Meeting*, Portland, Oregon, July 1994.

“Traffic Information and Management in a Geographically Distributed Computing Environment,” D.J. Dailey, M.P. Haselkorn, and P. Lin, *Proceedings of the ASCE Third International Conference on Applications of Advanced Technologies in Transportation Engineering*, July 1993.

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“Noise Techniques for Dynamic Two-Phase Flow Characterization,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, and D.F. Hollenbach, *Proceedings of Japan-US Seminar on Two-Phase Flow*, 1984.

“Neutron Fluctuation Analysis as a Characterization Vehicle for Two-Phase Flow,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, and D.F. Hollenbach, *Measuring Techniques in Gas- Liquid Two-Phase Flow*, IUTAM Symposium, Nancy, France, 1983.

“Separate Effects Tests in Support of BWR Thermal Hydraulic Monitoring,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, H.J. Kahn, and S.C. Swoope, *Proceedings of the Topical Meeting on Advances in Reactor Physics and Core Thermal Hydraulics*, 1982.

“Quantitative Characterization of Representative Two-Phase Flows,” D.J. Dailey, Second Place, Student Paper Competition, ANS Western Regional Competition, 1982.

“Characterization of Modality in Two-Phase Flow,” R.W. Albrecht, R.D. Crowe, and D.J. Dailey, *Transactions of ANS 1982 Winter Meeting*, Vol.43 pp. 793-4, Washington, D.C., 14-18 November 1982.

## Reports

“Deployment of a Virtual Sensor System, based on Transit Probes, in an Operational Traffic Management System” D.J. Dailey and F.W. Cathey, *Washington State Transportation Center - TRAC/WSDOT, Final Research Report WA-RD 660.1*, 30 pages, September, 2006.

“TrafficTV - Phase 2” D.J. Dailey and J. Bradbury, *Washington State Transportation Center - TRAC/WSDOT, Final Research Report WA-RD 659.1*, 25 pages, September, 2006.

“The Use of Weather Data to Predict Non-recurring Traffic Congestion,” D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Research Report WA-RD 655.1*, 18 pages, September, 2006.

“ITS Backbone,” D.J. Dailey, *Transportation Northwest Regional Center - TransNow(USDOT)*, Final Technical Report, 16 pages, 2006.

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“CCTV Technical report - Phase 3,” D.J. Dailey and F.W. Cathey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report WA-RD 633.1*, 41 pages, January 2006.

“Automated use of Un-Calibrated CCTV Cameras as Quantitative Speed Sensors - Phase 3,” D.J. Dailey and F.W. Cathey, *Washington State Transportation Center - TRAC/WSDOT, Final Research Report WA-RD 635.1*, 27 pages, January 2006.

“A General Simulation Model for Use with Real Freeway Data to Perform Congestion Prediction - Phase 3,” D.J. Dailey and Z.R. Wall, *Washington State Transportation Center - TRAC/WSDOT, Final Research Report WA-RD 635.1*, 27 pages, November 2005.

“AVL-Equipped Vehicles as Speed Probes,” D.J. Dailey and F.W. Cathey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report*, 40 pages, June 2005.

“Automata Model for Congestion Prediction,” Z. Wall and D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 577.1*, 52 pages, October 2003.

“Transit Vehicles as Traffic Probe Sensors,” D.J. Dailey and F.W. Cathey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 579.1*, 34 pages, October 2003.

“Algorithms for Estimating Mean Vehicle Speed Using Un-calibrated Traffic Management Cameras, T.N Schoepflin and D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 575.1*, 230 pages, October 2003.

“Arrival/Departure Prediction Using the Tri-Met AVL System,” F.W. Cathey and D.J. Dailey, *TRIMET, Portland, Oregon*, 41 pages, 2002.

“Arrival/Departure Prediction Under Adverse Conditions Using the Tri-Met AVL System, Volume II,” D.J. Dailey and F.W. Cathey, *Transportation Northwest Regional Center - TransNow(USDOT), Final Technical Report, TNW 2001-10.2*, 52 pages, June 2002.

“A Brief Report on 2001 Activities for ITS Backbone Infrastructure,” D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 543.1*, 9 pages, March 2002.

“The Use of Un-calibrated Roadside CCTV Cameras to Estimate Mean Traffic Speed,” D.J. Dailey, F.W. Cathey and S. Pumrin, *Transportation Northwest Regional Center - TransNow(USDOT), Final Technical Report, WA-RD 527.1*, 26 pages, December 2001.

“A Cellular Automata Model for Use with Real Freeway Data,” D.J. Dailey and N. Taiyab, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 537.1*, 63 pages, June 2002.

“Traffic Data Acquisition and Distribution (TDAD),” D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 484.1*, 71 pages, May 2002.

“AVL-Equipped Vehicles as Traffic Probe Sensors,” D.J. Dailey and F.W. Cathey, *Transportation Northwest Regional Center - TransNow(USDOT) and Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 534.1*, 37 pages, December 2001.

“Smart Trek: A Model Deployment Initiative,” D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 505.1*, 118 pages, May 2001.

“A Self Describing Data Transfer Methodology for ITS Applications,” D.J. Dailey and D.F. Meyers, *Washington State Transportation Center - TRAC/WSDOT and FHWA, Final Technical Report, WA-RD 463.1*, 90 pages, December 2000.

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“Video Image Processing to Create a Speed Sensor,” D.J. Dailey and L. Li, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report, WA-RD 465.1*, 48 pages, April 2000.

“Video Image Processing to Create a Speed Sensor,” D.J. Dailey and L. Li, *Transportation Northwest Regional Center - TransNow(USDOT), Final Technical Report, TNW 99-01*, 42 pages, November 1999.

“Irregularly Sampled Transit Vehicles Used as a Probe Vehicle Traffic Sensor,” D.J. Dailey and C. Elango, *Transportation Northwest Regional Center - TransNow(USDOT), Final Technical Report, TNW 99-02*, 26 pages, January 1998.

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“ITS Data Fusion,” D.J. Dailey, P. Harn, and P. Lin, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report WA-RD 410.1*, 92 pages, September 1996.

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“Automatic Transit Location System” D.J. Dailey, M.P. Haselkorn, K. Guiberson, and P. Lin, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report WA-RD 394.1*, 49 pages, February 1996.

“Real-Time Freeway Traveler Information System: Expansion, Implementation, and Evaluation,” M. Haselkorn, J. Spyridakis, D.J. Dailey, C. Miller, B. Goble, and M.A. Garner, *Washington State Transportation Center and TransNow, Final Technical Report WA-RD 385.1/TNW 95-09*, 88 pages, 1996.

“IVHS Data and Information Structure.” D.J. Dailey, M.P. Haselkorn, and S.D. Elliot, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report WA-RD 360.2*, 280 pages, March 1995.

“Investigation of GPS and GIS for Traveler Information,” D.J. Dailey, *Washington State Transportation Center - TRAC/WSDOT, Final Technical Report WA-RD 332.1*, 55 pages, March 1994.

“Improved Error Detection for Inductance Loop Sensors Using Correlation Techniques,” D.J. Dailey, *TRAC/WSDOT Final Technical Report WA-RD 300.1*, 22 pages, May 1993.

“Improved Estimates of Travel Time from Real Time Inductance Loop Sensors,” D.J. Dailey, *Transportation Northwest - TRAC/WSDOT Final Technical Report WA-RD 292.1*, 46 pages, May 1993.

“Travel Time Estimation using Cross Correlation Techniques,” D.J. Dailey, *Transportation Northwest - USDOT TNW 91-02*, 34 pages, 1991.

“Characterization of Two-Phase Flow Using Neutronic Fluctuations,” R.W. Albrecht, R.D. Crowe, D.J. Dailey, G. Kosaly, and R. Sanchez, *NUREG/CR-3141*, 1983.

### **Journals and Agencies for whom Reviews have been Performed**

IEEE Transactions on Intelligent Transportation Systems  
IEEE Transactions on Automation Science and Engineering  
IEEE Transactions on Aerospace and Electronic Systems  
IEEE Transactions on Systems, Man, and Cybernetics, B  
IEEE Transactions on Vehicular Technology  
IFAC Control Engineering Practice  
IEE Proceedings on Vision, Image and Signal Processing  
IEEE Computer Graphics and Applications Magazine  
The International Association for Pattern Recognition: Machine Vision and Applications  
ASCE Journal of Transportation Engineering  
Transportation Research B  
Transportation Research C  
Transportation Research Record  
Transportation Science  
The ITS Journal  
Journal of Information Science and Engineering, Academia Sinica of Taiwan  
National Science Foundation  
Science Foundation of Ireland  
ITS World Congress, Scientific Papers Track  
Innovation and Technology Commission, Government of the Hong Kong Special Administrative Region  
Oregon Transportation Research and Education Consortium  
California PATH  
Minnesota ITS Institute  
TransNow, USDOT  
University of Washington Royalty Research Fund

### **Active Research and Funded Projects**

“Simulation and Experimental Study of 802.11a/RA based Networking for Vehicular Management and Safety,” Transnow(US DOT), \$54,000, 2007-8.  
“Use of NexRad Radar for Traffic Impacts,” Alaska University Transportation Center, In Review 2007.  
“ITS Backbone Infrastructure,” WSDOT, \$350,000, 2006-7.  
“Improved Positioning using WiFi For Fleet Management And Traveler Information,” Transnow(US DOT), \$75,000, Sound Transit, \$120,000, 2006-7.  
“Large Simulation and Experimental Study of 802.11a/RA-based Networking for Vehicular Management and Safety,” NSF, \$399,638, 2007-2009, In Review.  
“Deployment of a Virtual Sensor System based on AVL Equipped Probes in an Operational Traffic Management System,” Transnow(US DOT), \$75,000, WSDOT, \$26,000, 2005-6.  
“ITS Backbone Infrastructure,” WSDOT, \$100,000, Transnow(US DOT), \$5,000, 2005-6.

“The Use of Weather and Weather Model Data to Predict Non-recurring Traffic Congestion,” Transnow(US DOT),\$35,000, WSDOT, \$66,000, 2005-6.

“TrafficTV: Updated for Amber Alert,” WSDOT, \$250,000, 2005-6.

“A General Automata Model for use with Real Freeway Data to Perform Congestion Prediction Phase 3,” WSDOT, \$75,000, 2005.

“Implementation of AVL Vehicles as Speed Probes for Traffic Management and Traveler Information in Addition to Performance Monitoring - Year 2,” Transnow(US DOT),\$35,000, 2004-5.

“The Use of Weather and Weather Model Data to Predict Non-recurring Traffic Congestion,” Transnow(US DOT),\$35,000, 2004-5.

“The Automated Use of Un-Calibrated CCTV Cameras as Quantitative Speed Sensors - Phase 3,” WSDOT, \$150,000, 2003-2005.

“The Use of Weather and Weather Model Data to Predict Non-recurring Traffic Congestion,” WSDOT, \$130,000, 2003-5.

“Implementation of AVL Vehicles as Speed Probes for Traffic Management and Traveler Information in Addition to Performance Monitoring,” \$125,000, WSDOT, 2003-5, Matching from Transnow(US DOT),\$41,000.

“ITS Backbone Infrastructure 03-05,” WSDOT, \$650,000, 2003-5.

“Traffic TV: Updates and Improvement Based on User Feedback,” WSDOT, \$143,000, 2002-5.

“Multi-Modal Traveler Information,” Sound Transit, \$50,000, 2004.

“Multi - Modal Busview and Mybus,” Sound Transit, \$89,000, 2003-4.

“Mybus Software Interface Project - SR99,” Sound Transit, \$149,000, 2003-4.

“A General Automata Model for Use with Real Freeway Data to Perform Congestion Prediction,” WSDOT, \$75,000, 2002-04.

“Mobile Data Communications for Bus and Rail Automatic Vehicle Location,” Sound Transit, \$199,936, 2002-3.

“Sensor Characterization,” MEDIUS Inc., \$50,000, Unrestricted Gift, 2002.

“An Intelligent Transportation System (ITS) Backbone Using .NET for Traffic Applications,” Microsoft Corp., \$40,000, Unrestricted Gift, 2002.

“ITS Backbone Operation and Enhancement,” WSDOT, \$650,500, 2001-3.

“The Use of Transit Vehicles as Speed Probes for Traffic Management and Traveler Information in addition to Performance Monitoring,” WSDOT & TRANSNOW, \$199,503, 2001-03.

“Development of a Statistical Algorithm for the Real-Time Prediction of Transit Vehicles Under Adverse Conditions,” Co-Principal Investigator, TRANSNOW in collaboration with Portland State University, \$50,407, 2000-03.

“Development of a Predictive Algorithm for Transit Vehicle Arrival,” Principal Investigator, TRIMET Portland, \$38,151, 2000.

“Real-Time Transit Information Development at The University of Washington,” Principal Investigator, Sound Transit, \$199,985, 2001.

“ITS Backbone Operation and Enhancement” WSDOT \$850,000, 1999-2001.

“Transit Vehicles as Probe Vehicles,” Principal Investigator, WSDOT,TRANSNOW(USDOT) \$175,000, 1999-2000.

“Quantitative Use of Existing Video Equipment,” Principal Investigator, WSDOT,TRANSNOW(USDOT)

\$150,000, 1999-2000.

“A Cellular Automata Model for Freeways” Principal Investigator, WSDOT \$85,000, 1999.

“The Use of Transit Vehicles for Travel Time Measures in Support of Performance Monitoring.” Principal Investigator, TRANSNOW(USDOT), WSDOT, \$149,000, 1997-8.

“Smart Trek.” Principal Investigator, FHWA, WSDOT, \$1,566,800, 1996-9.  
(Private-Public Partnership - Total Project \$15,000,000)

“Traffic Surveillance Video on the ITS Backbone.” Principal Investigator, TRANSNOW(USDOT), WSDOT, \$115,000, 1995-7.

“Seattle Smart Traveler: Enhanced Ridematching at the UW.” Principal Investigator, TRANSNOW(USDOT), WSDOT, \$135,000, 1995-7.

“Graphical Display of Real-Time Transit Coach Locations: Towards an APTS for the Puget Sound Region (BusView).” Principal Investigator, TRANSNOW(USDOT), WSDOT, \$156,000, 1995-7.

“SWIFT: Seattle Wide-area Information for Travelers - Wide Area IVHS Communications System Incorporating a High-Speed FM Broadcasting Subcarrier Data System.” Principal Investigator, FHWA, \$1,131,140, 1994-7. (Consortium of IBM, Seiko, WSDOT, Delco, Etak, King County Metro, and UW - Total Project \$7,167,540).

“PuSHME: An Operational Test of a Multi-Terrain, Heterogeneous Technology MayDay System.” Investigator, FHWA, \$240,000, 1994-7.  
(Consortium of David Evans and Associates, Inc., Motorola, PacTel, WSDOT, and UW - Total Project \$1,200,000).

“TDAD: Traffic Data Acquisition and Distribution - Integration of Traffic Operations and Traffic Data Collection.” Principal Investigator, FHWA, \$210,000, 1994-7.

“IVHS Network Backbone and Data Fusion.” Principal Investigator, FHWA, \$246,500, 1994-6.

“Design and Demonstration of a Regional IVHS Backbone.” Principal Investigator, TRANSNOW(USDOT), WSDOT, \$165,000, 1993-6.

“AVL: Automatic Vehicle Location - Integrating Transit AVL Data with State DOT Congestion Data in the Development of an Advanced Public Transportation System.” Co-Principal Investigator, TRANSNOW(USDOT), WSDOT, 1993- 6, \$137,000, 1993-6.

“Demonstration of ATIS/ATMS Data Fusion in a Regional IVHS.” Principal Investigator, WSDOT, \$125,000, 1993-6.

“Investigation of Two-Way Wireless Digital Information for ATIS/ATMS Development.” Principal Investigator, WSDOT, \$75,000, 1993-5.

“Wide-Area Client-Server Model for Accessing Structural Information.” Co-Investigator, National Library of Medicine, \$150,000, 1992-3.

“Investigation of GPS and GIS for Traveler Information.” Principal Investigator, WSDOT, Cellular One, METRO, \$95,550, 1992-3.

“Improved Estimates of Travel Time from Real-Time Inductance Loop Sensors.” Principal Investigator, TRANSNOW (USDOT) WSDOT, \$66,224, 1991-2.

“Improved Error Detection for Inductance Loop Sensors Using Correlation Techniques.” Principal Investigator, WSDOT, \$22,262, 1991-2.

“A Real-Time Motorist Information for Reducing Urban Freeway Congestion: Expansion, Implementation, and Evaluation.” Co-Investigator, WSDOT and TRANSNOW (USDOT), \$238,000, 1991.

“Sorting Research.” Investigator, IBM Corporation, \$98,381, 1991.

“Estimation of Travel Time from Real-Time Inductance Loop Sensors.” Principal Investigator, TRANSNOW (USDOT), \$71,367, 1990-1.

“Distributed Applications Using Multicast IP.” Principle Investigator, “Inkind funds” for one graduate student, ≈ \$4000, summer 1990.

### **Consulting Activities**

McCutchen, Doyle, Brown, & Enersen LLP, Expert Witness.

Latham & Watkins, LLP, Expert Witness.

Thelen Reid & Priest, LLP, Expert Witness.

Shook, Hardy & Bacon LLP., Expert Witness.

Short Course: Wireless Technologies for Intelligent Transportation Systems.

Digital Recorders Inc., Transit Arrival prediction.

Medius Inc., Onboard Vehicle Sensors and Data Fusion.

Infomove Inc., Project Cygnus:Traffic Forecasting.

Parsons Brinckerhoff Quade & Douglas, Inc., North Seattle ATMS project.

Farradyne Systems, Inc., National Transportation Control/ITS Communications Protocol project.

David Evans and Associates, Inc., Seattle-Portland Corridor Communications Architecture project.

Fluke Manufacturing, Inc., High Speed Networking.

### **Professional Society Activities**

Associate Editor, Transactions on Intelligent Transportation Systems, 2007-Present

General Chair, IEEE 10th International Conference on Intelligent Transportation Systems, Seattle, WA, 2007.

Vice President for Administrative Affairs, IEEE Intelligent Transportation Systems Society, 2005-8.

Program Committee Member, IEEE 9th International Conference on Intelligent Transportation Systems, Toronto, CA, 2006.

Program Committee Member, IEEE 7th International Conference on Intelligent Transportation Systems, Washington DC, 2004.

Program Committee Member, IEEE 6th International Conference on Intelligent Transportation Systems, Shanghai, China, 2003.

Immediate Past President, IEEE Intelligent Transportation Systems Council, 2003-4.

Member of the IEEE Technical Activities Board Periodicals Committee, 2002.

Program Committee Member, IEEE 5th International Conference on Intelligent Transportation Systems, Singapore, 2002.

President, IEEE Intelligent Transportation Systems Council, 2001-2.

IEEE Senior Member, 2001.

Program Chair, IEEE 4th International Conference on Intelligent Transportation Systems, Oakland CA, 2001.

Vice President for Publications, IEEE Intelligent Transportation Systems Council, 2000.

Computer Society Representative to the IEEE Intelligent Transportation Systems Council, 1999.

Publications Chair, IEEE Intelligent Transportation Systems Council, 1999.

Conference Committee Member, IEEE First International Conference on Intelligent Transportation Systems, Boston, MA, 1997.

Senior Member IEEE Technical Activities Board, Intelligent Transportation Systems Committee, 1998.

Secretary/Treasurer IEEE Technical Activities Board, Intelligent Transportation Systems Committee, 1996-1997.

Secretary/Treasurer, Transportation Northwest Board of Directors, 1995-1997.

Program Chairman and Co-Conference Chairman, Vehicular Navigation and Information Systems Conference, Seattle, 1995.

Member IEEE Technical Activities Board, Intelligent Transportation Systems Committee, 1994-1995.

Member, IEEE Communications Society, 1992-present.

Member, IEEE Vehicular Technology Society, 1992-present

Member, IEEE Computer Society, 1992-present.

Member, Association for Computing Machinery, 1992-present.

Member, IEEE Professional Communication Society, 1995-2004.

Member, INFORMS, Institute for Operations Research and the Management Sciences, 2004-Present.

Member, Alpha Nu Sigma Society (American Nuclear Society honor society)

### **Technology Transfer/Software Licensing**

MyBus and Busview, Digital Recorders Inc., 2000-07.

MyBus and Busview, Clever Devices Inc., 2004-07.

### **University of Washington Service Activities**

Department of Electrical Engineering Research Committee, 2002-05.

Department of Electrical Engineering Faculty Advisory Board, 2003-05.

Department of Electrical Engineering Promotion and Tenure review Committee, 2005.

Department of Electrical Engineering Computing Committee, 2006.

### **Popular Press**

CTA Bus Tracker, <http://ctabustracker.com/bustime/home.jsp>, 2007.

Wired News, "Bus Data Detects Traffic Snarls," <http://www.wired.com/news/technology/0,69991-0.html?tw=rss.index>

PC Magazine, "Mobile: Self-Driving Cars, Accelerate into the future," July 1, 2003, <http://www.pcmag.com/article2/0,4149,1130785,00.asp>

Seattle PI, "You can track your bus on the Internet," pg. 1, February 1, 2003, [http://seattlepi.nwsourc.com/transportation/106856\\_buses01.shtml](http://seattlepi.nwsourc.com/transportation/106856_buses01.shtml)

IEEE Intelligent Systems, "Mybus:Helping Bus Riders Make Informed Decisions," pg. 84, January/February 2001.

IEEE Spectrum, "Forecasting Traffic Flow," pg. 90, January 2001.

Federal Communication Week, "Firm Snaps up Smart Bus License," January 29, 2001, <http://www.civic.com/civic/articles/2001/0129/web-mybus-01-29-01.asp>

Seattle Times, "When's the bus going to get here? Check the Web," Monday, December 18, 2000,

<http://archives.seattletimes.nwsourc.com/cgi-bin/taxis/web/vortex/display?slug=busview18m&date=20001218&query=intelligent+transportation>

Los Angeles Times, "High-Tech Solutions to a Low-Tech Problem: Catching the Bus," December 11, 2000,

[http://www.latimes.com/cgi-bin/archsearch-cgi?DBQUERY=docn\(000118427\)&DATE=2000&SECT=&SORT=d%3Ah&NITEMS=25&TEMPLATE=9002](http://www.latimes.com/cgi-bin/archsearch-cgi?DBQUERY=docn(000118427)&DATE=2000&SECT=&SORT=d%3Ah&NITEMS=25&TEMPLATE=9002)

ABC News Online, "Technology Tames Traffic,"

<http://www.abcnews.com/sections/tech/DailyNews/traffic960623.html>

PBS a News Hour with Jim Lehrer, "SMART TREK," May 31, 1999,

[http://www.pbs.org/newshour/bb/transportation/jan-june99/smart\\_trek\\_5.31.html](http://www.pbs.org/newshour/bb/transportation/jan-june99/smart_trek_5.31.html)

New York Times, "Commuters Take Up Digital Arms to Battle Traffic Snarls," Technology/Circuits Section, September 3, 1998.

<http://www.nytimes.com/library/tech/98/09/circuits/articles/03traf.html>

University Week, "Move over Weather Channel: Traffic TV to cover local conditions," May 28, 1998.

[http://weber.u.washington.edu/uweek/archives/1998.05.MAY\\_28/article1.html](http://weber.u.washington.edu/uweek/archives/1998.05.MAY_28/article1.html)

Newsletter of the ITS Cooperative Deployment Network

[http://www.nawgits.com/sdd\\_dd.html](http://www.nawgits.com/sdd_dd.html)

UW 1998 Report to the State

<http://www.washington.edu/reports/state/serving.html#traffic>

University Week

[http://weber.u.washington.edu/uweek/archives/1998.10.OCT\\_08/\\_article1.html](http://weber.u.washington.edu/uweek/archives/1998.10.OCT_08/_article1.html)