

## **Randolph W. Hall**

**Professor in Epstein Department of Industrial and Systems Engineering  
Director of CREATE  
Vice President/Provost of Research (2005-2019)  
University of Southern California  
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### **Employment**

2021-present Director, Center for Risk and Economic Analysis of Threats and Emergencies, University of Southern California  
2010-2019 Vice President of Research, University of Southern California  
2005-2009 Vice Provost of Research Advancement, University of Southern California  
2005-2019 President, ICT Productions, University of Southern California  
2003-2005 Principal Investigator & co-Director, Center for Risk and Economic Analysis of Terrorist Events (CREATE – first Department of Homeland Security University Center of Excellence), University of Southern California  
2003-2005 Senior Associate Dean for Research, Viterbi School of Engineering University of Southern California  
2001-2003 Associate Dean for Research, Viterbi School of Engineering, University of Southern California  
2001-2004 Chairman, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California  
1998-2001 Principal Investigator and Director, METTRANS Center, University of Southern California (National Center for Metropolitan Transportation Research)  
1994-present Associate Professor/Professor, University of Southern California Epstein Department of Industrial and Systems Engineering  
1993-1994 Visiting Associate Professor, Marshall School of Business, University of Southern California  
1991-1993 Program Manager for Systems Engineering Partners for Advanced Transit and Highways (PATH)  
1984-1991 Assistant Professor, Industrial Engineering and Operations Research University of California at Berkeley  
1982-1984 Senior Research Engineer  
General Motors Research Laboratories

### **Education**

B.S. (Industrial Engineering & Operations Research) University of California, Berkeley 1979, Tau Beta PI, Phi Beta Kappa, Summa cum Laude  
M.S. (Civil Engineering) University of California, Berkeley 1980  
Ph.D. (Civil Engineering) University of California, Berkeley 1982  
(Minors: City and Regional Planning, Operations Research)

### **External Professional Service**

Senior Fellow, University Industry Demonstration Partnership (UIDP), 2021-  
Board Member, Alliance for Southern California Innovation, 2018-2019  
Member, National Academy Roundtable on incentivizing open science, 2019-2022  
Chair of the Board (3-year cycle), University Industry Demonstration Partnership (UIDP), 2016-2019  
University Representative, AAU/APLU Public Access to Research Data Initiative, 2018-  
Member, AAU Senior Research Officers Group, 2005-2019  
Member, AAU/APLU Science and Security Working Group, 2018-2019  
University Representative, Association of Academic Health Centers, 2005-2019  
Chair, Association of Academic Health Centers, Executive Leadership Group for Research  
Board of Directors, California Council on Science and Technology, 2007-2013  
Chair, University of California Multi-campus Research Program Award Committee, 2009  
Member, DOD Minerva Task Force, 2007  
Board of Advisors, Regenstrief Institute, Purdue University, 2007-2010  
Board member, ASEE Engineering Research Council, 2004-2007  
Editor-in-Chief, *ITS Journal*, 2000-2003  
Associate Editor, *IIE Transactions*, 2001-2005  
Chair, Transportation Network Modeling Committee, Transportation Research Board (94-98)  
Associate Editor, *Computers and Industrial Engineering* (2000-2005)  
Associate Editor, *IEEE Transactions on Intelligent Transportation Systems* (1999-2000)  
Member, Editorial Review Board, *Transportation Research B* (1993-2000)  
Member, Transportation Science outstanding Ph.D. dissertation committee (1996, 2003-  
2005, chair 2005)  
Chair PATH statewide ATMIS Coordinating Council (1991-93)  
Member, Transportation Supply Committee, Transportation Research Board  
Member, International Trade and Transportation Committee, Transportation Research  
Board (1990-1992)  
Member, IVHS America Sub-Committee for University Transportation Centers (1992-93)  
Member of Advisory Board, Project California education and training initiative (1994-96)

### **Example University Service**

Member, Health Systems Management Engineering Advisory Committee (2020-)  
Chair, Epstein Department Sustained Excellence Committee (2020-)  
Board Member, Keck Medicine of USC (2015-2019)  
Board Member, Alfred Mann Institute at USC (2015-2019)  
Chair, Conflict of Interest Review Committee (2006-2019)  
Ex-officio, University Research Committee (2005-2019)  
Chair, Council of Research Deans (2005-2019)  
Chair, University Task Force on Opportunities and Constraints in Research due to New  
Federal Funding Restrictions (2003-2004)  
Chair, Strategic Planning Committee, Aerospace and Mechanical Engineering Department  
(2002-2003)  
Chair, Chair Search Committee, Aerospace and Mechanical Engineering Department (2003)  
Chair, Internal Review Committee, Information and Operations Management Department  
(2003)  
Member, University Committee on Academic Review (2002-2004)

Member, University Strategic Planning Subcommittee on Applied Research (2003-2004)  
Member (former chair), METRANS Executive Committee (1998-2004)  
Member, University Strategic Planning Committee for Applied Research (2003-2004)

**Past Consulting Clients**

Apple, Citibank, City of Oakland, City of San Francisco, Daimler Chrysler, Eaton, ESRI, Fulbright and Jaworski, Headstart Nurseries, Institute for Healthcare Improvement, Littler Mendelson, Manna Consultants, Navigation Technologies, Navistar, Parsons, Qualcomm, PG&E, Runzheimer International, TJX

## PUBLICATIONS

### Books

1. *Queueing Methods for Services and Manufacturing*, Prentice Hall, Englewood Cliffs, NJ, 1991.
2. *Handbook of Transportation Science*, (editor), Kluwer Scientific Publishers, Norwell, MA, 1999.
3. *Handbook of Transportation Science, 2<sup>nd</sup> Edition* (editor), Kluwer Scientific Publishers, Norwell, MA, 2002.
4. *Patient Flow: Reducing Delay in Health Care Delivery* (editor), Springer, 2006; 2<sup>nd</sup> edition, 2006.
5. *Handbook of Healthcare System Scheduling* (editor), Springer, 2012.
6. *Patient Flow: Reducing Delay in Health Care Delivery* (editor), Springer, 2006; 2<sup>nd</sup> edition, 2013.

### Journal Articles (refereed)

1. "Analytical Models for Vehicle/Gap Distribution on Automated Highway Systems," (H.S. Tsao, R.W.Hall and I. Chatterjee), *Transportation Science*, V. 31, pp. 18-33, 1997.
2. "Application of Computer Integrated Transportation to Commercial Vehicle Operations," (R.W. Hall and I. Chatterjee), *Transportation Research Record*. 1537, pp. 1-9, 1996.
3. "The Architecture of Transportation Systems," (R.W. Hall) *Transportation Research*, V. 3C, N.3, pp. 129-142, 1995.
4. "Automated Highway System Field Operational Tests: Potential Sites, Configurations and Characteristics," (R.W.Hall, V. Thakker, T. Horan, J. Glazer and C. Hoene), *Transportation Research Record*, N. 1651, pp. 89-97, 1999.
5. "Bounds on Effectiveness of Driver Hours of Service Regulations for Freight Motor Carriers," R.W. Hall and A. Mukherjee, *Transportation Research E*, V. 44, pp. 298-312 (2008).
6. "Bus Dispatching at Timed Transfer Transit Stations Using Bus Tracking Technology," (M. M. Dessouky, R. Hall, A. Nowroozi, and Karen Mourikas) *Transportation Research*, V. 7C, pp.187-208, 1999.
7. "Buses as a Traffic Probes: Demonstration Project," (R.W. Hall and N. Vyas), *Transportation Research Record*, N.1731, pp. 96-103, 2000.
8. "Characteristics of Multi-Stop/Multi-Terminal Delivery Routes," (R.W.Hall) *Transportation Research*, V.25B, N.6, pp. 391-403, 1991.
9. "Comments on One Warehouse Multiple Retailer Systems with Vehicle Routing Costs," (R.W.Hall) *Management Science*, V.37, N.10, pp. 1496-1497, 1991.
10. "Comparison of Strategies for Routing Shipments Through Transportation Terminals," (R.W.Hall) *Transportation Research*, V.21A, N. 6, pp. 421-429, 1987.
11. "Concept of an Advanced Traveler Information System Testbed for the Bay Area," (A. Khattak, H. Al-Deek and R.W.Hall) *IVHS Journal*, V.2, N.1, pp. 45-71, 1994.
12. "Configuration of an Overnight Package Air Network," (R.W.Hall) *Transportation Research*, V.23A, N.2, pp. 139-149, 1989.

13. "Consolidation Strategy: Inventory, Vehicles and Terminals," (R.W.Hall) *Journal of Business Logistic*, V.8, N.2, pp. 57-73, 1987.
14. "Control of Vehicle Dispatching on a Cyclic Route Serving Truck Terminals." (R.W. Hall and V.C. Sabnani). *Transportation Research*, V.36A, pp. 257-276, 2002.
15. "Cost Effectiveness of Automated Highway Systems: A Case Study in Engineering Economic Analysis of a New Technology," (R.W. Hall) *Engineering Economist*, V. 41, N. 4, pp. 317-343, 1996.
16. "Creating the Innovative University," (R.W. Hall) *Technology and Innovation*, V. 21, pp. 1-24, 2020.
17. Decentralized Inventory Control Policies for Equipment Management in a Many-To-Many Network," (with H. Zhong). *Transportation Research*, V.36A, 849-865, 2002.
18. "Dependence Between Shipment Size and Mode in Freight Transportation," (R.W.Hall) *Transportation Science* V.19A, N.4, pp. 399-401, 1985.
19. "Design of Express Mail Services for Metropolitan Regions," (M. Khamoun and R.W.Hall) *Journal of Business Logistics* V. 17, N.2, pp. 265-302, 1996.
20. "Design of Local Area Freight Networks," (R.W.Hall) *Transportation Research*, V.27B, N.2, pp. 79-95, 1993.
21. "The Design of Real-Time Logistics Information System for Trucking Industry" (S-C. Lo and R.W. Hall). *Computers and Operations Research*, V. 35, pp. 3439-3451, 2008.
22. "Determining Vehicle Dispatch Frequency when Shipping Frequency Differs Among Suppliers," (R.W.Hall) *Transportation Research*, V.19B, N.5, pp. 421-431, 1985.
23. "Direct Versus Terminal Freight Routing on a Network with Concave Costs," (R.W.Hall) *Transportation Research*, V.21B, N.4, pp. 287-298, 1987.
24. "Discrete Models/Continuous Models," (R.W.Hall) *Omega*, V.14, N.3, pp. 213-220, 1986.
25. "Discounted Robust Stochastic Games and an Application to Queueing Control" (E. Kardes, F. Ordóñez, and R.W. Hall) *Operations Research*, March-April 2011; V. 59: pp. 365 - 382.
26. "Dispatching Regular and Express Shipments Between a Supplier and Manufacturer," (R.W.Hall) *Transportation Research*, V.23B, N.3, pp. 195-211, 1989.
27. "Distance Approximations for Routing Pickers in a Warehouse," (R.W.Hall) *IIE Transactions*, V. 25, N.4, pp. 76-86, 1993.
28. "Distribution Strategies that Minimize Transportation and Inventory Costs," (L.D. Burns, R.W.Hall, D.E. Blumenfeld and C.F. Daganzo), *Operations Research*, V.33, N.3, pp. 469-483, 1985.
29. "Domicile Selection and Risk Pooling for Trucking Networks," (R.W. Hall) *IIE Transactions*. V. 36, pp. 299-305, 2004.
30. "A Dynamic Empty Equipment and Crew Allocation Model for Long-haul Networks," (C. Caliskan and R.W. Hall) *Transportation Research*. V. 37a, pp. 405-418, 2003.
31. "Dynamic Ride-Sharing: Theory and Practice," (R.W. Hall and A. Qureshi) *ASCE Journal in Transportation Engineering*, V. 123, pp. 308-315, 1997.
32. "Effect of Capacity Concentration on Highway Corridor Performance," (R.W. Hall), *Transportation Research*, V. 31A, pp. 475-491, 1997.

33. "Effects of the Los Angeles Transit Strike on Highway Congestion," (S.-C. Lo and R.W. Hall), *Transportation Research A*, V. 40, pp. 903-917, 2006.
34. "Entrance Capacity of an Automated Highway System" (R.W. Hall, A. Nowroozi and J.Tsao) *Transportation Science*, V. 35, pp. 19-36, 2001.
35. "Evaluating the Effectiveness of Integrated Traffic Corridors: Concept and Practice," (R.W. Hall, M. Miller and A. Khattak), *IVHS Journal*, V.3, N.1, pp. 49-67, 1995.
36. "Evaluation of Priority Rules for Entrance to Automated Highways," (R.W. Hall and C. Li) V.6, 175-193, 2001.
37. "Evaluation of Transit Telephone Information at SCRTD," (R.W.Hall, E. Le Colletter and Y.B. Yim), *Transportation Research Record*, N. 1451, pp. 77-86, 1994.
38. "Expected Performance of a Queueing System with Ancillary Activities," (R.W.Hall) *Journal of the Operational Research Society*, V.40, N.8, pp. 741-750, 1989.
39. "Facility Location for an Extra-Terrestrial Production/Distribution System" (T. McKendree and R.W. Hall) *Naval Research Logistics Quarterly*, V. 52, pp. 549-559, 2005.
40. "The Fastest Path Through a Network with Random Time-Dependent Travel Times, (R.W.Hall) *Transportation Science*, V.20, N.3, pp. 182-188, 1986.
41. "Fleet Sizing and Empty Equipment Redistribution for Center-Terminal Transportation Networks," (Y.F.Du, R.W. Hall) *Management Science*, V. 43, pp. 145-157, 1997.
42. "Graphical Interpretation of the Transportation Problem," (R.W.Hall) *Transportation Science*, V.23, N.1, pp. 37-45, 1989.
43. "Graphical Models for Manpower Planning," (R.W.Hall) *International Journal of Production Research*, V.24, N.5, pp. 1267-1282, 1986.
44. "Graphical Techniques for Planning Changes in Production Capacity," (R.W.Hall) *International Journal of Production Research*, V.26, N.4, pp. 675-689, 1988.
45. "Heuristics for Selecting Facility Locations," (R.W.Hall) *Transportation and Logistics Review*, V.21, N.4, pp. 353-373, 1985.
46. "Highway/Street Interfaces and the Effects of Roadway Orientation," *ITS Journal*. V. 7, pp. 57-78, 2002.
47. "Implications of Reducing Demand Variability in an Assembly Plant," (R.W.Hall) *International Journal of Production Research*, V.24, N.4, pp. 971-989, 1986.
48. "Incident Dispatching, Clearance and Delay" (R.W. Hall), *Transportation Research*, V.36, N.3, pp. 257-276, 2002.
49. "Institutional Issues in Traveler Information Dissemination: Lessons Learned from the TravInfo Field Operational Test," (R.W. Hall) *ITS Journal*, V. 5, pp. 3-38, 1999.
50. "Inventor View on University Innovation: A Survey of National Academy of Inventors Fellows," (R.W. Hall) *Technology and Innovation*, in press (2021)
51. "Lane Capacity for an Automated Highway with Mixed Vehicle Classes," (R.W. Hall and C. Li) *ITS Journal*, V. 5, pp. 217-240 (1999)
52. "A Link-Based Variational Inequality Model for Dynamic Departure Time/Route Choice," (B. Ran, R.W. Hall and D.E. Boyce), *Transportation Research*, V. 30, pp. 31-46, 1996.
53. "Longitudinal and Lateral Throughput on an Idealized Highway," (R.W. Hall) *Transportation Science*, V. 29, N. 2, pp. 118-127, 1995.

54. "LTL Trucking in Los Angeles: Congestion Relief Through Terminal Siting," (R.W.Hall) *Transportation Research Record*, No.1320, pp. 47-57, 1991.
55. "Median, Mean and Optimum as Facility Locations," (R.W.Hall) *Journal of Regional Science*, V.28, N.1, pp. 65-81, 1988.
56. "The National System Architecture for Intelligent Transportation: Features and Implications," (R.W. Hall) *International Journal of Services, Technology and Management*. V. 1, pp. 156-173 (2000)
57. "Network Design for a Grid Hybrid Transit Service," M.M. Aldaihani, L. Quadrifoglio, M.M. Dessouky, and R.W. Hall, *Transportation Research*, V. 38A, pp. 511-530 (2004).
58. "Non-Recurrent Congestion: How Big is the Problem? Are Traveler Information Systems the Solution?" (R.W.Hall) *Transportation Research C*, V.1, N.1, pp. 89-103, 1993.
59. "A Note on Bounds for Direct Shipping Cost," (R.W. Hall) *Management Science*, V.38, N.8, pp. 1212-1214, 1992.
60. "On the Estimation of the Multinomial Probit Model," (C.F. Daganzo, Y. Sheffi and R.W.Hall), *Transportation Research*, V.16A, N.5, pp. 447-456, 1982.
61. "On the Integration of Production and Distribution: Economic Order and Production Quantity Implications," (R.W. Hall), *Transportation Research*, V. 30, 5 pp. 387-403, 1996.
62. "Optimal Holding Times at Transfer Stations," (R.W. Hall, M. Dessouky and Q. Lu) *Computers and Industrial Engineering*, V. 40, 379-397, 2001.
63. "Optimized Lane Assignments on an Automated Highway," (R.W.Hall and D. Lotspeich), *Transportation Research C*, V. 4, pp. 211-229, 1996.
64. "Optimized Lane Assignment on an Automated Highway: Dynamic Formulation and Solution by Column Generation," (R.W. Hall and C. Caliskan), *Transportation Research C*, V. 4, pp. 211-229, 1999.
65. "Organization for IVHS: Computer Integrated Transportation," (R.W.Hall, H.K. Lo and E. Minge), *Transportation Research Record* N. 1516, pp. 78-84, 1995.
66. "Passenger Delay in a Rapid Transit Station," (R.W.Hall) *Transportation Research*, V.21, N.4, pp. 65-81, 1988.
67. "Passenger Waiting Time and Information Acquisition Using Automatic Vehicle Location for Verification," (R.W. Hall), *Transportation Planning and Technology*, V. 24, 249-269, 2001.
68. "Performance and Design of Mobility Allowance Shuttle Transit (MAST) Services: Bounds on the Maximum Longitudinal Velocity," *Transportation Science*, V. 40, pp. 351-363, 2006 (L. Quadrifoglio, R. W. Hall, M. M. Dessouky).
69. "Pickup and Delivery Strategies for Overnight Carriers," (R.W.Hall) *Transportation Research*, V. 30, N. 3, pp. 173-187, 1996.
70. "Price Changes and Order Quantities: Impacts of Discount Rate and Storage Costs," (R.W.Hall) *IIE Transactions*, V.24, pp. 104-110, 1992.
71. "Properties of Vehicle Routes with Variable Shipment Sizes in the Euclidean Plane," (R.W.Hall) *Transportation Research Record*, N. 1413, pp. 122-129, 1994.
72. "A Probabilistic Model for AVCS Longitudinal Collision/Safety Analysis," (H.S. Tsao and R.W.Hall), *IVHS Journal*, V.1, N.3, pp. 261-274, 1994.

73. "Quick Estimation of Queueing Delay for Passengers Exiting a Rapid Transit Station," (R.W.Hall) *Transportation Research Record*, No.1152, pp. 11-13, 1988.
74. "Railroad Classification Yard Throughput: The Case of Multistage Triangular Sorting," (C.F. Daganzo, R.W.Hall and R. Dowling), *Transportation Research*, V.17A, N.2, pp. 95-106, 1983.
75. "Real-Time Control of Bus Transit Systems Using ITS Technologies," (M. Dessouky, R.W.Hall, L. Zhang and A. Singh) *Transportation Research*. V. 37A, p.p.145-164, 2003.
76. "Reducing Logistics Costs at General Motors," (L.D. Burns, D.E. Blumenfeld, M.C. Frick, C.F. Daganzo, and R.W.Hall), *Interfaces*, V.17, N.1, pp. 26-47, 1987.
77. "Research Opportunities in Logistics," (R.W.Hall) *Transportation Research*, V.19A, N.5, pp. 399-402, 1985.
78. "Route Choice on Freight Networks with Concave Costs and Exclusive Arcs," (R.W.Hall) *Transportation Research*, V.23B, N.3, pp. 177-194, 1989.
79. "Route Choice and Advanced Traveler Information Systems on a Capacitated/Dynamic Network," (R.W. Hall) *Transportation Research C*, V. 4, pp. 289-306, 1996.
80. "Route Selection on Freight Networks with Weight and Volume Constraints," (R.W.Hall) *Transportation Research*, V.25B, N.4, pp. 175-189, 1991.
81. "A Routing Model for Pickups and Deliveries: No Capacity Restrictions on the Secondary Items," (C.F. Daganzo and R.W.Hall), *Transportation Science*, V. 27, N.4, pp. 315-329, 1993.
82. "Scheduling Transit Railcar Maintenance and Facility Design," (R.W. Hall) *Transportation Research*, V. 34A, pp. 67-84, 2000.
83. "Site Selection and Sizing of an LRV Storage Yard," (R.W.Hall) *Transportation Research Record*, N.1266, pp. 241-246, 1991.
84. "A Static Empty Equipment Allocation Model For Long-Haul Networks With Constrained Crew Routes," (C.Caliskan and R.W. Hall) *IIE Transactions*, V. 38, pp. 947-954, 2006
85. "Stochastic Freight Flow Patterns: Implications for Fleet Optimization," (R.W. Hall) *Transportation Research*, V. 33, pp. 449-465, 1999.
86. "Students as Partners in University Innovation and Entrepreneurship," *Education + Training*, in press, 2021.
87. "Tandem Toll Booths for the Golden Gate Bridge," (R.W.Hall and C.F. Daganzo), *Transportation Research Record*, No.905, pp. 7-14, 1983.
88. "Territory Planning and Vehicle Dispatching With Driver Learning" (H. Zhong, R.W. Hall, M. Dessouky), *Transportation Science*, V. 41, pp. 74-89, 2007.
89. "Time Effectiveness of New Transportation Technologies," (R.W.Hall) *Transportation Planning and Technology*, V. 19, N. 1, pp. 1-17, 1995
90. "Trade-off Between Freight Expediting Cost and Safety Stock Inventory Costs," (D.E.Blumenfeld, R.W.Hall and W. Jordan), *Journal of Business Logistics*, V.6, N.1, pp. 79-100, 1985.
91. "Transportation with Common Carrier and Private Fleets: System Assignment and Shipment Frequency Optimization," (R.W. Hall) *IIE Transactions*, V. 27, pp. 217-225, 1995.



92. "Travel Distance Through Transportation Terminals on a Rectangular Grid," (R.W.Hall) *Journal of the Operational Research Society*, V.35, N.12, pp. 1067-1078, 1984.
93. "Travel Outcome and Performance: The Effect of Uncertainty on Accessibility," (R.W.Hall) *Transportation Research*, V.17A, N.4, pp. 275-290, 1983.
94. "Traveler Performance and Information Availability: An Experiment in Route Choice," (R.W.Hall) *Transportation Planning and Technology*, V.8, N.2, pp. 177-189, 1983.
95. "Traveler Route Choice: Travel Time Implications of Improved Information and Adaptive Decisions," (R.W.Hall) *Transportation Research*, V.17A, N.3, pp. 201-214, 1983.
96. "Truck Scheduling for Ground to Air Connectivity" (R.W. Hall), *Journal of Air Transport Management*, V. 7, pp. 331-338, 2001.
97. "University Strategic Plans, What They Say About Innovation," (R.W. Hall and J. Lulich), *Innovative Higher Education*, 2021.
98. "Use of Continuous Approximations Within Discrete Algorithms for Routing Vehicles: Experimental Results and Interpretation," (R.W.Hall) *Networks*, V. 24, N.1, pp. 43-56, 1994.
99. "Vehicle Miles for a Freight Carrier with Two Capacity Constraints," (R.W.Hall and C.F. Daganzo), *Transportation Research Record*, No.1038, 1985.
100. "Vehicle Packing," (R.W.Hall) *Transportation Research*, V.23B, N.2, pp. 103-121, 1989.
101. "Vehicle Scheduling at a Transportation Terminal with Random Delay En Route," (R.W.Hall) *Transportation Science*, V.19, N.3, pp. 308-320, 1985.
102. "Vehicle Sorting for Platoon Formation: Impacts on Highway Entry and Throughput," *Transportation Research C*, V. 13, pp. 405-420, 2005.

### **Papers Published in Conference Proceedings**

1. "An Adaptive Vehicle Routing Approach for IVHS," (H.K. Lo, B. Ran and R.W.Hall), in *IVHS American Annual Conference Proceedings*, Atlanta, GA, 1994. (refereed)
2. "The Architecture of Transportation Systems," (R.W.Hall) *Progress in Material Handling Research: 1992*, Braun-Brumfield, Inc., pp. 77-96, 1993.
3. "Capacity of Automated Highway Systems: Merging Efficiency," (R.W. Hall and H.-S. J. Tsao), *Proceedings of the 1997 American Control Conference*, pp. 2046-2050, V. 3, 1997.
4. "Design Options for Operating Fully Automated Highway Systems," (H.S. Tsao, R.W.Hall and S.E. Shladover), *Vehicle Navigation and Information Systems Conference*, 1993. (refereed)
5. "Dynamic Traveler Information and Transit Ridership," (Y.B. Yim, R.W.Hall and E. Le Colleter), *PacRim Transtech Conference*, 1993, pp. 279-285.
6. "The Market for IVHS: A Research Perspective," (R.W.Hall) *Wescon*, San Francisco, 1993 (PATH Technical Memorandum 93-2).
7. "Public and Private Roles in Delivering Traveler Information: Two Case Studies" (R.W. Hall and Y.B. Yim), in *Converging Infrastructures, Intelligent*

- Transportation and the National Information Infrastructure*, L.M. Branscomb and J.H. Keller editors, The MIT Press, Cambridge, 1996.
8. "Railroad Train Blocking for Fuel Efficiency," (R.W.Hall) *Proceedings of 23rd Annual Meeting of the Transportation Research Forum*, pp. 472-479, 1982. (refereed)
  9. "Scheduling a Work Conserving Queue with Overtime Available," (R.W.Hall) in *Modern Production Concepts*, G. Fandel and G. Zapfel (eds.), Springer Verlag, Berlin, pp. 452-469, 1991.
  9. "Scheduling Timed Transfers at Hub Terminals," (R.W.Hall and C. Chong), *Proceedings of 12th International Symposium on Transportation and Traffic Flow Theory*, 1993. (refereed).
  10. "Transportation with Common Carrier and Private Fleets: System Assignment and Shipment Frequency Optimization," (R.W.Hall) in *Progress in Material Handling and Logistics*, J.A. White and I.W. Pence (eds.), Springer Verlag, Berlin, pp. 285-302, 1991.
  11. "Transportation Management Centers for IVHS -- Survey of Existing Capabilities," (H.K. Lo, R.W.Hall and J.R. Windover), in *Proceedings of IVHS America Annual Conference*, Atlanta, GA, 1994.

### **Book Chapters**

1. "Automated Highway System Deployment: A Preliminary Assessment of Uncertainties," (R.W. Hall and H.-S. Tsao) in *Automated Highway Systems*, P. Ioannou ed., Plenum Press, New York, pp. 325-334, 1997.
2. "Information Technology and Better Health: Overcoming the Risks," in *The Transformation of Academic Health Centers*. S. Wartman, Editor. Elsevier, Amsterdam, pp. 231-238, 2015.
2. "System Configurations: Evolutionary Deployment Considerations," (R.W. Hall) in *Automated Highway Systems*, P. Ioannou ed., Plenum Press, New York, pp. 325-334, 1997.

### **Articles in Non-Refereed Journals**

1. "Accessibility in the Eighties: A Challenge to the Transportation Profession," (R.W.Hall) *ITE Journal*, V.51, N.3, pp. 46-47, 1981.
2. "Accessibility, Trade and Locational Behaviour", book review in *Journal of Regional Science*.
3. "Analyzing Decisions to Counter Terrorism," *OR/MS Today*, p. 18, February, 2007.
4. "Anticipation, Expectations and Results, A Peer Review Reviewed," (J. Freedman, R. Hall, S. Judd, J. Muniz) *NCURA Magazine*, pp. 17-19, 2011
5. "Commentary on Capacity Analysis of Traffic Flow Over a Single Lane Automated Highway System," *ITS Journal*, 1998.
6. "Facility Location and the Theory of Production," (R.W.Hall) book review in *Transportation Science*, V.24, p. 308, 1990.

7. "From Trade-offs to Trade-ups: The New Face of Queueing Theory," (R.W.Hall) *APICS*, pp. 32-33, July 1992.
8. "Information Technology for Open Science: Innovation for Research," *Educause Review*, 12/1/2020.
9. "Logistics: Opportunities for the Eighties," (R.W.Hall) *ITS Review*, 1986.
10. "LTL Trucking in Los Angeles, Congestion Relief Through Terminal Siting," (R.W.Hall) *Transportation Executive Update*, pp. 22-26, July/August 1991.
11. "Managing the Matrix," (R.W. Hall), *ASEE Prism*, October, 2004.
12. "Modeling in the Undergraduate OR/MS Curriculum," (R.W.Hall) *OR/MS Today*, June 1990.
13. "On the Road to Efficiency," (R.W.Hall and J.G. Partyka) *OR/MS Today*, June, 1997.
14. "On the Road to Integration," (R.W. Hall), *OR/MS Today*, June, 2006.
15. "On the Road to Mobility," (R.W. Hall and J.G. Partyka) *OR/MS Today*, February, 2008.
16. "On the Road to Recovery," (R.W.Hall) *OR/MS Today*, June, 2004, pp. 40-49.
17. "On the Road to Security," (R.W. Hall) *OR/MS Today*, 2002.
18. "On the Road to Service," (J.G. Partyka and R.W. Hall) *OR/MS Today*, August, 2000, pp. 26-35.
19. "Patient Flow, the New Queueing Theory for Healthcare," (R.W. Hall) *OR/MS Today*, June, 2006.
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21. "Scholarship, Liberated from Paper at Last," *Chronicle of Higher Education*, April 1, 2012,
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24. "Vehicle Routing Delivers the Goods," (J. Partyka and R.W.Hall) *OR/MS Today*, February, 2014.
25. "Vehicle Routing Software Survey: Higher Expectations Drive Transformation," (R. Hall and J. Partyka) *OR/MS Today*, V. 43, N. 1. February, 2016.
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## Reports

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2. *AHS Deployment: A Preliminary Assessment of Uncertainties*, (R.W.Hall and H.S. Tsao), PATH Working Paper 94-2, 1994.
3. *Automated Highway System Field Operational Tests for the State of California: Potential Sites, Configurations and Characteristics* (R.W. Hall, V. Thakker, T.A. Horan, J. Glazer and C. Hoene), PATH Research Report 97-45, 1997.
4. *Design and Evaluation of an Automated Highway System with Optimized Lane Assignment* (R.W. Hall and C. Caliskan), PATH Research Report 97-44, 1997.

5. *Design Options for Operating Fully Automated Highway Systems*, (Tsao, R.W.Hall and S.E. Shladover), PATH Technical Memorandum 93-3, 1993.
6. *Bay Area ATIS Testbed Plan*, (Khattak, Al-Deek, Y.B. Yim and R.W.Hall), PATH Research Report 92-2, 1992.
7. *BTS (Version 1.1) Bottleneck Traffic Simulator*, (W. Lin and R.W.Hall) PATH Working Paper 91-2, 1991.
8. *California System Architecture for Intelligent Transportation: Models for Transportation Systems Management* (R.W. Hall and V. Thakker) PATH Working Paper 98-29, 1998.
9. *California Systems Architecture Study - Part 1* (T.A. Horan, L.J. Glazer, K.S. Massey, A. Lohmann, R.W. Hall, C. Intihar, R. Ice), Claremont Graduate School Technical Memorandum, 1997.
10. *California Transportation Management Centers, Part 1. Assessment of Existing Capabilities*, (H.K. Lo, R.W.Hall and J.R. Windover), PATH Working Paper, 93-17, 1993.
11. *Capacity of Automated Highway Systems: Effect of Platooning and Barriers*, (Tsao, R.W.Hall and B. Hongola), PATH Research Report, 93-26, 1993.
12. *Commercial Vehicle Operations: Government Interfaces and Intelligent Transportation Systems* (R. Hall and C. Intihar), PATH Research Report 97-12, 1997.
13. *A Conceptual Approach for Developing and Analyzing Alternate Evolutionary Deployment Strategies for Intelligent Vehicle/Highway Systems*, (R. Al-Ayat and R.W.Hall) PATH Working Paper 94-5, 1994.
14. *DYN-OPT Users Manual* (C. Caliskan and R.W. Hall), PATH Working Paper 97-6, 1997
15. *Economies-to-Scale and Terminal Locations*, (R.W.Hall) Institute of Transportation Studies, Working Paper WP-87-1, 1987.
16. *Evaluating the Impact of ITS on Personalized Public Transit* (M. Dessouky, R.W. Hall, R. Shah, M. Aldaihani), PATH Working Paper 2001-12, 2001.
17. *Evaluation of Highway Bottlenecks*, (R.W.Hall and M. Kamoun), PATH Research Report 91-9, 1991.
18. *Evaluation of ITS Technology for Bus Transit Systems* (R.W.Hall, M.Dessouky, L.Zhang, A.Singh and V.Patel) PATH Research Report 99-38.
19. *Evaluation of ITS Technology for Bus Timed Transfers* (R. Hall, M. Dessouky, A. Nowroozi, A. Singh), PATH Research Report 97-37.
20. *Evaluation of the OCTA Transit Probe System* (R.W. Hall, N.Vyas, C.Shyani, V.Sabnani and S. Khetani) PATH Research Report 99-39.
21. *Evaluation of the Transit Information System in Southern California*, (E. Lecolleter, Y.B. Yim and R.W.Hall), PATH Research Report 93-10, 1993.
22. *An Experimental Calibration of the Multinomial Probit Model by Simulation*, (R.W.Hall) Institute of Transportation Studies, Working Paper WP-80-12, 1980.
23. *A Functional Definition of Automated Highway Systems*, (W.B. Zhang, S.E. Shladover and R.W.Hall) PATH Working Paper, 1993.
24. *The Impact of Intelligent Transportation Systems on Bus Driver Effectiveness* (D.E.Bailey and R. Hall), PATH Working Paper 97-25.
25. *Incident Dispatching, Clearance and Delay* (R.W. Hall) PATH Working Paper 2000-14.

26. Incident Management: Process Analysis and Improvement, Phase 1: Review of Procedures (R.W. Hall and Y. Mehta), PATH Working Paper 98-31.
27. INCISIM: Users Manual (H.Liu and R.W.Hall) PATH Working Paper 2000-15.
28. Intermodal Transportation Operation System (ITOS) for the State of California (R.W. Hall, C. Parekh and V. Thakker) PATH Working Paper 98-28, 1998.
29. ITS Standards: A System Management Perspective (C. Intihar and R. Hall), PATH Working Paper 97-29, 1997.
30. Lane-OPT Users Manual Version 1.0, (D Lotspeich and R.W. Hall) PATH Working Paper 96-2, 1996.
31. *Optimized Lane Assignment on an Automated Highway*, (R.W.Hall and D.Lotspeich) PATH Working Paper 96-3, 1996.
32. *Los Angeles Smart Traveler Emergency Response Evaluation*, (G. Giuliano, J. Golob and R.W. Hall), for California Dept. of Transportation, 1994.
33. Los Angeles Smart Traveler Field Operational Test Evaluation, (G. Giuliano, R.W. Hall and J.M. Golob) PATH Research Report 95-41.
34. *Optimized Lane Assignment on an Automated Highway*, (R.W.Hall and D.Lotspeich) PATH Working Paper 96-3, 1996.
35. Orange County Transit/Traffic Management Integration and Traveler Information Project: Evaluation Plan, (R. Hall and M. Hickman) PATH Working Paper 96-15, 1996.
36. Orange County Transit Probe Evaluation: Phase I Institutional Findings (R.W. Hall), PATH Working Paper 97-12.
37. *Organization for ITS: Computer Integrated Transportation, Phase 1: Results for Arterial and Highway Transportation Management Centers*, (R.W.Hall and H.K. Lo) PATH Research Report 94-24.
38. *Organizing for ITS: Computer Integrated Transportation Phase 2: Results for Commercial Vehicle Operators*, (R. Hall and I. Chatterjee), PATH Working Paper 95-14, 1995.
39. *Peak Period Truck Restrictions: Impacts on the Los Angeles Economy*, (R.W.Hall and J.G. Partyka) LogiSolve consulting report, 1991.
40. Port Operations, A Review of Practices, (T. Higgins, M. Dessouky and R. Hall) for Center for Commercial Deployment of Transportation Technologies, USC Center for Advanced Transportation Technologies, 2000.
41. *Precursor Systems Analyses of Automated Highway Systems, Activity Area P: Cost/Benefit Analysis: Volume I: Cost Benefit Analysis of Automated Highway Systems* (R.W. Hall), for Federal Highway Administration.
42. *Precursor Systems Analyses of Automated Highway Systems, Activity Area P: Cost/Benefit Analysis: Volume II: System Configurations: Evolutionary Deployment Considerations* (R.W. Hall)
43. *Precursor Systems Analyses of Automated Highway Systems, Activity Area P: Cost/Benefit Analysis: Volume VI Review of Studies on Automated Highway System Benefits and Impacts* (S. Chandramoulli and R.W. Hall), for Federal Highway Administration.
44. *Principles for Routing Freight Through Transportation Terminals*, General Motors Research Laboratories, (R.W.Hall) Research Publication, 1984.

45. *A Probabilistic Model and a Software Tool for AVCS Longitudinal Collision/Safety Analysis*, (H.S. Tsao and R.W.Hall), PATH Research Report 93-2, 1993.
46. Safety and Efficiency Tradeoff Analysis for Automated Highway System: Part 3: Longitudinal Separation on AHS: A Trade-off Between Collision Probability/Severity and Capacity (H.-S. Jacob Tsao and R. W. Hall), PATH Working Paper 97-8.
47. *Smart Corridor Evaluation Plan*, (M. Miller, R.W.Hall and A. Khattak) PATH Research Report 94-1, 1993.
48. Systematic Design for Roadway Interfaces with Application to Automated Highways (R.W. Hall) PATH Working Paper 2000-26.
49. *Time Benefits of New Transportation Technologies*, (R.W.Hall) PATH Working Paper 91-4, 1991.
50. Transit ITS Simulator (TRANS-ITS): Design Document (M. Dessouky, A. Singh, and R. Hall), PATH Working Paper 97-26.
51. *Travel Distance Through Transportation Terminals on a Rectangular Grid: Alternative Routing Strategies*, (R.W.Hall) General Motors Research Laboratories, Research Publication, 1984.
52. TravInfo Evaluation: Institutional Element, Phase 1 Results," (R.W. Hall, Y.B. Yim, B. Pfeifle and S. Weissenberger) PATH Working Paper, 1995.
53. TravInfo Evaluation: Institutional Element Phase 2 Results," (R. Hall, D. Loukakos, S. Weissenberger and Y.B. Yim), PATH Working Paper 96-14.
54. TravInfo Evaluation: The Target Study Phase 1 Results (R. Koo, Y. Yim and R. Hall), PATH Working Paper 98-24.
55. TravInfo Evaluation Traveler Response Element: TravInfo 817-1717 Caller Study Phase 1 Results (Y.Yim, R. Hall, R. Koo and M. Miller), PATH Working Paper 98-25.
56. TravInfo Evaluation: Traveler Response Element Broad Area Study (Y.B. Yim, R. Hall and S. Weissenberger), PATH Working Paper 97-9, 1997.
57. TravInfo Evaluation: Value Added Reseller (VAR) Study Phase 1 Results, PATH Working Paper 96-13, 1996.
58. *TravInfo Field Operational Test Evaluation Plan*, (R.W. Hall, Y.B. Yim, A. Khattak, M. Miller and R.W.Hall) PATH Working Paper, 95-4, 1995.
59. TravInfo Field Operational Test Traveler Information Center (TIC) Study (Technology Evaluation Element) Implementation Plan (M.A. Miller and R.W. Hall) PATH Working Paper 95-14, 1995.
60. TravInfo Field Operational Test: Work Plan for the Target, Network and Value Added Reseller (VAR) Customer Studies (Y.B. Yim, R.W.Hall, A. Skabardonis, R.Tam and S. Weissenberger), PATH Working Paper 97-14, 1997.
61. Truck Scheduling for Ground to Air Connectivity, (R.W. Hall), PATH Working Paper 2001-8, 2001.
62. *Users Guide and Design Description for the SmartPath Simulator, Version MOU 62*, (B. Hongola and R.W.Hall) PATH Working Paper, 1993.
63. User's Manual for Transit ITS Simulator (TRAN-ITS) (M. Dessouky, L.Zhang, A.Singh and R. Hall) PATH Working Paper 99-13.

## Research Grants/Contracts

### University of Southern California

- Automated Highway System Cost/Benefit Analysis, FHWA/PATH, 10/1/93-11/30/94, \$52,326 (Randolph W. Hall, PI).
- Smart Traveler Field Operation Test Evaluation, Caltrans/PATH, 10/15/93-10/14/94, \$147,391 (Gen Giuliano PI/Randolph Hall, co-PI).
- Los Angeles Smart Traveler Emergency Response Evaluation, Caltrans/FHWA, 1/17/94-7/17/94, \$170,000 (Gen Giuliano PI/Randolph Hall, co-PI).
- Computer Integrated Transportation, Caltrans/PATH, 9/1/94-8/30/95, \$43,380 (Randolph Hall, PI).
- Design and Evaluation of an AHS with Optimized Lane Assignments, Caltrans/PATH, 9/1/94-8/30/95, \$68,364 (Randolph Hall, PI).
- Intelligent Vehicle Highway System Architecture Study, FHWA/Rockwell/PATH, 2/1/95-3/31/96, \$25,000 (Randolph Hall, PI)
- National Automated Highway System Consortium, FHWA/PATH, 1/1/95-8/30/95, \$50,048 (Randolph Hall, PI)
- Decentralized Inventory Control Strategies for Fleet and Crew Allocation in the Less-than-Truckload Motor Carrier Industry," NSF, 7/1/95-6/30/97, \$140,000 (Randolph Hall, PI)
- California System Architecture, PATH/Claremont Grad School, 1/1/96-12/31/98, \$88,000 (Randolph Hall, PI)
- ITS Applications to Timed Transfers, PATH, 1/1/96-12/31/97, \$52,655 (Randolph Hall, PI)
- Orange County Transit Probe Evaluation, Caltrans, 1/1/96-6/30/99, \$208,359 (Randolph Hall, PI)
- Transit Railcar Maintenance, Caltrans, 6/1/95-3/31/96, \$42,000 (Randolph Hall, PI)
- AHS Deployment and Site Selection, PATH, 1/1/96-6/30/97, \$88,545 (Randolph Hall, PI)
- Automated Highway System Consortium, FHWA/PATH, 10/1/95-9/30/97, \$98,600 (Randolph Hall, PI)
- Center for Commercial Deployment of Transportation Technologies, DOD/Cal State Long Beach, 1/1/96-9/30/96, \$160,000 (Petros Ioannou, PI; Randolph Hall et al Co-PI)
- Efficient Transit Service Through Applications of ITS, PATH/Caltrans, 9/1/96-8/30/97, \$130,000 (Randolph Hall, PI; Maged Dessouky, Diane Bailey co-PI).
- Center for Commercial Deployment of Transportation Technologies, DOD/Cal State Long Beach, 1/1/98-9/30/98, \$500,000 (Petros Ioannou, PI; Randolph Hall et al Co-PI)
- Incident Management: Process Analysis and Improvement, PATH/Caltrans, 1/1/98-6/30/99, \$82,245, (Randolph Hall, PI).
- Application of Surveillance Data in Transportation Planning and Management, Federal Highway Administration, 8/1/98 – 7/31/99, \$49,445 (Randolph Hall, PI)
- Real-time Scheduling in Demand Responsive Transportation Services, National Science Foundation, 7/1/98 – 6/30/01, \$334,959 (Randolph Hall, PI)

METRANS, US Department of Transportation, 7/1/98 – 6/30/02, \$1,600,000 (Randolph W. Hall, PI).

METRANS, California Department of Transportation, 7/1/98 – 6/30/02, \$1,600,000 (Randolph W. Hall, PI).

The Automated Highway/Street Interface, PATH, 1/1/00-11/30/01, \$116,894 (Randolph W. Hall, PI)

Evaluating the Impact of ITS on Personalized Public Transit, PATH, 1/1/00 – 12/31/00, \$70,827 (Maged Dessouky, PI; Randolph W. Hall, co-PI)

ATIS for Ground to Air Connectivity, PATH, 1/1/00 – 6/31/02, \$84,852 (Randolph W. Hall, PI; Maged Dessouky, co-PI).

Transportation in the Next Millennium, Southern California’s Place in the World, USC SC/W Program, 7/1/99 – 6/30/00, \$10,000 (Randolph W. Hall, PI).

Dynamic Cargo Assignment and Route Planning in the Trucking Industry, National Science Foundation, 1/1/02-12/31/02, \$99,933 (Randolph W. Hall, PI, Petros Ioannou, Maged Dessouky, co-PI).

NSF Workshop on Real-time Vehicle Routing, National Science Foundation, 1/1/02 – 9/30/02, \$15,000 (Randolph W. Hall, PI)

Automated Highway Deployment Strategies, PATH, 1/1/03 – 6/30/04, \$98,036 (Randolph W. Hall, PI).

Moving Slot Concept for Automated Highway Control. PATH, 9/1/02 – 6/30/03, \$25,000 (Randolph W. Hall, PI).

Center for Risk and Economic Analysis of Terrorism Events. DHS (2004-2007), \$12,000,000 (Randolph W. Hall, PI; Detlof von Winterfeldt co-PI).

Collaborative to Improve Patient Flow Through Efficient Service Delivery and Resource Utilization, LA County Department of Health Services, 7/1/2004 – 12/31/2004, \$100,000 (Randolph W. Hall, PI).

Collaborative to Improve Patient Flow Through Efficient Service Delivery and Resource Utilization, LA Care, 3/1/2005 \$200,000 (Randolph W. Hall, PI). (funded via gift)

SNS Transportation Plan for Emergency Medical Supplies (Randolph W. Hall, PI), \$75,000, 7/1/05-1/31/06 (Randolph W. Hall, PI).

National Center for Foreign Animal and Zoonotic Disease Defense, \$554,000, 5/1/2005-9/30/2007 (Randolph W. Hall, PI, B. Neches, Naj Meshkati, co-PI).

Hospital Operations Improvement, California Healthcare Foundation, \$250,000, 2006-2008 (Randolph W. Hall, PI).

Management Engineering in Safety Net Hospitals, \$232,497, 8/1/2008-7/31/2009 (Randolph W. Hall, PI).

Challenge Grant: Innovator Grant Program, \$675,000, 11/01/2013 – 6/30/2017 (Randolph W. Hall, PI)

The Rose Hills Foundation Innovator Grant Program, \$1,000,934, 6/30/2016 – 6/30/2021 (Randolph W. Hall, PI).

Integrated Modeling of Healthcare Capacity and Patient Needs to Intervene Against Human Transmitted Viral Disease,” \$41,700, 8/1/2020-7/31/2021, Zumberge Special Solicitation (Randolph W. Hall, PI)

University of California at Berkeley



Intelligent Vehicle Highway Systems: System Architecture, FHWA/Rockwell, 10/1/93-10/1/94, \$91,000 (Randolph Hall project leader/proposal author; Adib Kanafani, PI).

TravInfo Field Operational Test Evaluation, FHWA, 1/1/93-12/31/95, \$420,000 (Randolph Hall project leader/proposal author; Adib Kanafani, PI).

Automated Highway Systems Human Factors, FHWA/Honeywell, 10/1/92-3/31/96, \$132,751 (Randolph Hall project leader/proposal author; Adib Kanafani, PI).

Evaluation of Dynamic Transit Information Systems: Southern California Regional Transit District, Caltrans, 1992, \$75,000 (Randolph Hall, PI).

IVHS System Architecture, Caltrans, 1992, \$140,000 (Randolph Hall, PI).

Design of Express Mail Systems, US DOT, 1991-92, \$22,000 (Randolph Hall, PI).

Bottleneck Evaluation Model, Caltrans, 1990-91, \$55,000 (Randolph Hall, PI).

Integration of Discrete and Continuous Transportation Models, Institute of Transportation Studies, 1989-90, \$19,000 (Randolph Hall, PI).

Reduction of Road Delays Incurred by Trucking Companies, US DOT, 1989-90, \$25,000 (Randolph Hall, PI).

Freight Routing Procedures, Institute of Transportation Studies, 1987-89, \$40,000 (Randolph Hall, PI).

Vehicle Capacity Utilization and Carrier Expansion, Institute of Transportation Studies, 1986-87, \$20,000 (Randolph Hall, PI).

Terminal Location, Vehicle Routing and Carrier Expansion, Institute of Transportation Studies, 1985-86, \$19,000 (Randolph Hall, PI).

## Ph.D. Theses Supervised

James Campbell	Terminal Location Strategies for Expanding Freight Carriers (University of Missouri, St. Louis)
Ya Feng Du	Fleet Sizing and Empty Equipment Redistribution for Transportation Networks (Conway Transportation Service)
Douglas Popken	Multi-Attribute Multicommodity Flows in Transportation Networks
Michael Racer Cenk Caliskan	Decentralized Freight Routing (Memphis State University) Fleet Management Models for Longhaul Freight with Cyclic Constraints (University of Delaware, <u>winner CLM Dissertation Prize, 2000</u> )
Hongsheng Zhong	Territory Planning and Vehicle Dispatching with Stochastic Customers and Demand (United Parcel Service, honorable mention, Dantzig Dissertation prize, 2002)
Boontariga Kaseemson	Vehicle Routing with Time Windows and Driver Learning (Chiang Mai University)
Apichat Chayanupatkul	Freight Routing and Containerization in a Package Network that Accounts for Sortation Constraints and Costs, 2004
Chinan Chin	A Slot Model for Highway Flow Optimization Through Entry, Exit and Flow Control, 2004
Shih Lo	Integrated Model for Highway-Based Travel Time Forecasting with Application to Truck Transportation, 2004 (National Taiwan University of Science and Technology)
Erim Kardes	Discounted Robust Stochastic Games with Applications to Homeland Security and Flow Control (CREATE, Post-Doc)
<u>Committee Member</u>	
Anthony Han	One-to-Many Distribution of Nonstorable Items: Approximate Analytical Models
Lee Han	Traffic Flow Characteristics of Signalized Arterials Under Disturbance Conditions
Chaug-Ing Hsu	Density, Accessibility and Urban Transportation Technology
Chawn-Yaw Jeng	Routing Strategies for an Idealized Airline Network
Francesc Robuste	Analysis of Baggage Handling Operations in Airports
Mounira Taleb-Ibrahimi	Modeling and Analysis of Container Storage in Ports
Y.B. Yim	Transportation Design Options for Changing Cities
Joe Clougherty	International Aviation Liberalization
Kenneth McGraw	Scheduling of Chemical Processing with Fixed Batch Size and Both Earliness and Tardiness Penalties
Shin Lee	Evaluation of Policy Alternatives to Alleviate Transportation-Related Pollution

Seonghil Cho	Estimation of Origin-Destination Matrices from Link Traffic Counts and User Equilibrium Link Information
Alper Sen	Inventory and Pricing Models for Perishable Products
Tom McKendree	Technical and Operational Assessment Of Molecular Nanotechnology For Space Operations
Hsi-Hwa Hu	Transportation Patterns of the Elderly
Hiroshi Ochiuni	Essays on Supply Chain Management, 2008

Postdoctoral Students Supervised, current position

Haitham Al-Deek	University of South Florida
Onur Bakir	Post-doctoral Associate, USC
Mark Hickman	University of Arizona
Assad Khattak	University of North Carolina
Hong Lo	Hong Kong University of Science and Technology
Terrence O'Sullivan	University of Akron
Bin Ran	University of Wisconsin
Jacob Tsao	San Jose State University
Y.B. Yim	Deceased