

# VIRGINIA P. SISIOPIKU, Ph.D.

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## Education

1991-1994	University of Illinois at Chicago	Chicago, IL	Ph.D. Civil Engineering
1989-1991	University of Illinois at Chicago	Chicago, IL	M.S. Civil Engineering
1983-1988	Aristotle University of Thessaloniki	Greece	B.S. Civil Engineering

## Professional Interests

Intelligent Transportation Systems, Transportation Systems Security, Traffic Flow Theory and Operations, Motorized and Non-Motorized Transportation Safety, and Traffic Simulation and Modeling.

## Positions Held

2002-present	Associate Professor, Transportation Program Director. The University of Alabama at Birmingham, Department of Civil, Construction, and Environmental Engineering (CCEE), Birmingham, AL
2002-2003	Adjunct Associate Professor. Michigan State University, Department of Civil and Environmental Engineering, E. Lansing, MI
1995-2002	Assistant Professor. Michigan State University, Department of Civil and Environmental Engineering, E. Lansing, MI
1994-1995	Adjunct Assistant Professor. Illinois Institute of Technology, Department of Civil Engineering, Chicago, IL
1994-1995	Associate Research Scientist. University of Illinois at Chicago, Department of Electrical Engineering and Computer Science, Chicago, IL
1994-1995	Transportation Specialist. P/R Michaels Associates, LTD. Chicago, IL
1989-1994	Research Assistant. University of Illinois at Chicago and Illinois Department of Transportation, Chicago, IL
1992-1993	Research Fellow. Federal Highway Administration, McLean, VA
1991-1992	Teaching Assistant. University of Illinois at Chicago, Chicago, IL

## Other Appointments Held

2006-present	Senior Scientist, Faculty Appointment at the UAB Injury Control Research Center, Birmingham, AL
2003-present	Member of the UAB Center for Disaster Preparedness, Department of Emergency Medicine, School of Medicine, Birmingham, AL
2002-present	Adjunct Associate Professor, Full Member of Graduate Faculty, University of Alabama in Huntsville, Department of Civil and Environmental Engineering, Huntsville, AL
2002-present	Transportation Program Director, Department of Civil and Environmental Engineering, University of Alabama at Birmingham, Birmingham, AL

## Funded Research Grants<sup>1</sup>

### PI/CO-PI Responsibilities

1. Implementing Active Traffic Management Strategies in the U.S., A. Sullivan (PI) and **V.P. Sisiopiku** (co-PI), University Transportation Center for Alabama, 1/1/08-12/31/08. Total: \$72,444.
2. Transit Modeling and Mitigating Traffic Congestion, S. Melouk (PI), B. Keskin, P. Componation, G. Harris, P. Farrington, M. Anderson, and **V.P. Sisiopiku** (Co-PIs), University Transportation Center for Alabama, 1/1/08-12/31/08. Total: \$159,965.
3. Funding Student Professional Development Activities, M. Anderson (PI), **V. P. Sisiopiku**, D. Turner (Co-PIs), University Transportation Center for Alabama, 7/1/08-2/28/09. Total: \$24,332.
4. Study of the Impacts from One- to Two-way Street Conversion, **V.P. Sisiopiku** (PI), National Science Foundation (NSF), UAB ADVANCE Scholars Program, 6/4/07-6/30/08. Total: \$30,000.
5. Enhancing Research and Training in Transportation Engineering, **V.P. Sisiopiku** (PI), University of Alabama at Birmingham, 6/11/07-10/1/08. Total: \$10,000.
6. Traffic Counting Services for the Regional Planning Commission, A. Sullivan (PI) and **V.P. Sisiopiku** (co-PI), Regional Planning Commission of Greater Birmingham, 5/8/07-11/30/07. Total: \$15,000.
7. Bridge Weigh-in-Motion (B-WIM) System Testing and Evaluation, W.A. Hitchcock (PI), Uddin N., **V.P. Sisiopiku**, J. Kirby, T. Abu-Amra, J. Richardson, and H.A. Toutanji (co-PIs), University Transportation Center for Alabama, 5/1/07-10/31/08. Total: \$289,051.
8. Managed Lanes: Current Status and Future Opportunities, **V.P. Sisiopiku** (PI), A. Sullivan (Co-PI), University Transportation Center for Alabama, 1/1/07-6/30/08. Total: \$268,210.
9. Use of Traffic Responsive Signals to Address Weather Related and Non-Recurring Congestion, A. Sullivan (PI), **V.P. Sisiopiku** and R.W. Peters (co-PIs), University Transportation Center for Alabama, 1/1/07-12/31/07. Total: \$101,567.
10. Traffic Signal Systems on Oversaturated Arterials, S. L. Jones (PI), **V.P. Sisiopiku**, M. Anderson (Co-PIs), University Transportation Center for Alabama, 1/1/07-5/31/08. Total: \$150,000.
11. Funding Student Professional Development Activities, M. Anderson (PI), **V. P. Sisiopiku**, D. Turner (Co-PIs), University Transportation Center for Alabama, 7/1/07-2/28/08. Total: \$24,332.
12. Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for I-65, **V.P. Sisiopiku** (PI), A. Sullivan (Co-PI), Alabama Department of Transportation, 8/1/06-3/31/08. Total: \$149,986.
13. Transit System Security: Planning, Design, and Institutional Issues, **V.P. Sisiopiku** (PI), National Science Foundation (NSF), UAB ADVANCE Scholars Program, 6/1/06-8/31/07. Total: \$20,000.
14. Review of Urban Transit Systems in Alabama, M. Anderson (PI), **V. P. Sisiopiku**, S. Jones (Co-PIs), University Transportation Center for Alabama, 6/1/06-11/30/06. Total: \$20,721.
15. Transportation Facilities Management under Emergencies, **V.P. Sisiopiku** (PI), R.W. Peters (Co-PI), University Transportation Center for Alabama, 1/1/06-12/31/06. Total: \$100,000.
16. Dynamic Traffic Assignment Options, **V.P. Sisiopiku** (PI), National Science Foundation (NSF), UAB ADVANCE Program, 12/15/05-8/31/06. Total: \$10,000.
17. Student Funding to Attend TRB Conference, M. Anderson (PI), **V. P. Sisiopiku**, D. Turner (Co-PIs), University Transportation Center for Alabama, 5/1/06-2/28/07. Total: \$24,332.
18. Dynamic Traffic Assignment Applications for Transit, **V.P. Sisiopiku** (PI), K. Mouskos and N. Parker (Co-PIs), Federal Transit Administration through the Great Urban Serving Universities Program, 9/1/05-7/1/07. Total: \$160,073.
19. Alternate Financing Sources for Alabama Highways, Robert McLeod (PI), Walter Robbins, T. Rizk, **V.P. Sisiopiku** (Co-PIs), University Transportation Center for Alabama, 1/1/05-5/31/06. Total: \$99,966.
20. Design and Safety of Modern Roundabouts, **V.P. Sisiopiku** (PI), National Science Foundation (NSF), UAB ADVANCE Program, 9/28/04-9/28/05. Total: \$20,000.
21. Transportation Engineering Students Professional Development, M. Anderson (PI), **V. P. Sisiopiku**, D.

<sup>1</sup> Amounts listed refer to total project funds and may include match.

- Turner (Co-PIs), University Transportation Center for Alabama, 5/1/05-2/28/06. Total: \$25,772.
22. Exploration of Advanced Technologies for Enhancing Pedestrian Safety, **V.P. Sisiopiku** (PI), University of Alabama at Birmingham, 8/15/04-8/15/05. Total: \$15,926.
  23. Transportation Automotive Fuel Cell Vehicle Model, Design and Build Program, F.H. Fouad (PI), J. Goldman, S. Jones, R. W. Peters, **V.P. Sisiopiku**, and A. Sullivan (Co-PIs), Federal Transit Administration, 6/1/04-12/31/07. Total: \$3,991,348.
  24. Applications of Freeway Ramp Metering in Alabama, **V.P. Sisiopiku** (PI), A. Sullivan (Co-PI), University Transportation Center for Alabama, 1/1/04-12/31/04. Total: \$100,000.
  25. Student Funding for Professional Development, M. Anderson (PI), **V. P. Sisiopiku**, D. Turner (Co-PIs), University Transportation Center for Alabama, 1/1/04-1/31/05. Total: \$25,701.
  26. Development of a Statewide Traffic Signal Design/Timing Manual and Online Guide, S. Jones (PI), A. Sullivan, **V.P. Sisiopiku** (Co-PIs), Alabama Department of Transportation, 12/1/03-6/30/05. Total: \$126,602.
  27. Multidisciplinary Commercial Motor Vehicle Safety Research Program, F. Fouad (PI), **V.P. Sisiopiku**, R. Peters, D. Schwebel, and N. Uddin (Co-PIs), U.S. Department of Transportation, 9/15/03-9/30/05. Total: \$273,255.
  28. U.S. Highway 280 Access Management Alternatives Analysis and Visualization, S. Jones (PI), **V.P. Sisiopiku**, A. Shih (Co-PIs), Regional Planning Commission of Greater Birmingham, 8/1/03-7/31/04. Total: \$92,933.
  29. Intermodal Management System Update and Integration of Environmental Justice Elements into the Transportation Planning Process, S. Jones (PI), **V.P. Sisiopiku**, A. Sullivan (Co-PIs), Regional Planning Commission of Greater Birmingham, 9/1/03-3/31/05. Total: \$61,956.
  30. Access Management Training, University Transportation Center for Alabama, **V.P. Sisiopiku** (PI), 7/15/03-7/15/04. Total: \$20,728.
  31. Determining Aggressive Driver Characteristics and Behaviors in Traffic, D. Akin (PI), **V.P. Sisiopiku** (Co-PI), Turkish Prime Ministry, State Institute of Planning, 4/1/03-12/31/05. Total: \$20,000.
  32. Student Funding for Professional Development, M. Anderson (PI), **V.P. Sisiopiku**, Lindly J. (Co-PI), University Transportation Center for Alabama, 1/1/03-1/31/04. Total: \$24,064.
  33. Regional Traffic Simulation for Emergency Preparedness, **V.P. Sisiopiku** (PI), S. Jones (Co-PI), University Transportation Center for Alabama, 1/1/03-1/31/04. Total: \$104,110.
  34. Use of Cell-Phone Location Data in Estimating O-D Matrices in Urban Travel Demand Forecasting, D. Akin (PI), D. Kucur, **V.P. Sisiopiku** (Co-PIs), Gebze Institute of Technology, 7/15/02-12/31/03. Total: \$3,500.
  35. Global Assessment of Hydrogen Based Technologies, F. Fouad (PI), R. Peters, S. Jones, S. Clark, **V.P. Sisiopiku** (Co-PIs), U.S. Department of Energy, 8/1/02-8/31/07. Total: \$990,469.
  36. Promoting Walkable Communities, **V.P. Sisiopiku** (PI), Michigan Department of Community Health, 3/1/02-9/30/02. Total: \$20,000.
  37. Building an Active Community Environment, R. Wilkerson (PI), **V.P. Sisiopiku** (Co-PI), Jackson Community Foundation, Consumers Energy Foundation, and Foote Hospital, 1/1/02-9/30/02. Total: \$38,550.
  38. Community Walk Alert Program, **V.P. Sisiopiku** (PI), Office of Highway Safety Planning, 10/1/01-9/30/02. Total: \$20,000.
  39. Field Test of Variable Speed Limits in Work Zones (in Michigan), J. Grossklaus (PI), W.C. Taylor, R. Lyles, **V.P. Sisiopiku** (co-PIs), Federal Highway Administration, USDOT, 10/1/01-2/28/03. Total: \$648,403.
  40. ATMS Evaluation in South Michigan, W. C. Taylor (PI), **V.P. Sisiopiku** (Co-PI), Michigan Department of Transportation (MDOT), 61-7899, 4/26/01-3/30/02. Total: \$53,170.
  41. Safe Ways to School for Michigan Children, **V.P. Sisiopiku** (PI), Office of Highway Safety Planning, 5/4/01-9/30/02. Total: \$18,578.
  42. Evaluation of Costs and Revenues from Electronic Red Light Running Enforcement, **V.P. Sisiopiku** (PI), Case Center's Management of Technology and Innovation Program (MSU), 1/1/01-5/15/01. Total: \$12,423.

43. Pedestrian Safety: A Building Block for Safe Communities, **V.P. Sisiopiku** (PI), Office of Highway Safety Planning, 10/15/00-9/30/01. Total: \$25,000.
44. Parking on the State Trunkline System, **V.P. Sisiopiku** (PI), Michigan Department of Transportation (MDOT), 2/1/00-8/30/00. Total: \$30,527.
45. System Community Walk Alert Safety Program, **V.P. Sisiopiku** (PI), Office of Highway Safety Planning, 11/15/99-9/30/00. Total: \$30,000.
46. Walkable Communities Pedestrian Safety Program, **V.P. Sisiopiku** (PI), Office of Highway Safety Planning, 12/15/98-9/30/99. Total: \$31,834.
47. Evaluation of Michigan ITS Deployment (Phase 2), W. C. Taylor (PI), **V.P. Sisiopiku** (Co-PI), Michigan Department of Transportation (MDOT), 61-9438, 1/1/99-12/31/00. Total: \$38,600.
48. Assessment of Wireless Communications Issues With Respect to Advanced Rural Transportation Systems, **V.P. Sisiopiku** (PI), Federal Highway Administration (FHWA), 9/15/98-9/15/99. Total: \$35,212.
49. An Evaluation of Speed Control Techniques in Work Zones, R. Lyles (PI), **V.P. Sisiopiku** (Co-PI), Michigan Department of Transportation, 3/1/98-12/31/98. Total: \$79,913.
50. Grand River Avenue (M-43) Pedestrian Study, **V.P. Sisiopiku** (PI), Michigan Department of Transportation, 1/1/98-12/31/98. Total: \$61,037.
51. Application and Design of Loons at Narrow Median Crossovers, **V.P. Sisiopiku** (PI), Great Lakes Center for Truck and Transit Research, 9/1/97-6/30/98. Total: \$47,764.
52. Work Zone Speed Study, R. Lyles (PI), **V.P. Sisiopiku** (Co-PI), Michigan Department of Transportation, 7/1/97-6/30/98. Total: \$70,086.
53. Evaluation of the Use of Roundabouts, **V.P. Sisiopiku** (PI), All-University Research Initiation Grants Program, 05/15/97-08/15/98. Total: \$14,881.
54. Collection and Analysis of Data to Perform an Assessment of the Effectiveness of the ATMS Deployment in Alleviating Congestion in Southeastern Michigan, W. C. Taylor (PI), **V.P. Sisiopiku** (Co-PI), Michigan Department of Transportation, 4/1/96-4/1/98. Total: \$103,220.
55. Southfield Freeway (M-39) Congestion Analysis, **V.P. Sisiopiku** (PI), Michigan Department of Transportation (MDOT), 61-9406, 10/11/95-12/31/96. Total: \$41,441.
56. International Advances in Transportation Methods and Technologies, **V.P. Sisiopiku** (PI), GAPS Program, International Studies and Programs, Michigan State University, 5/16/96-12/16/96, \$12,000.
57. Commercial Vehicle Operations, **V.P. Sisiopiku** (PI), Federal Highway Administration, 9/1/95-9/1/96. Total: \$34,848.
58. Travel Time Estimation based on Closed-Loop System Detector Output, **V.P. Sisiopiku** (PI), N. Roupail (Co-PI), Federal Highway Administration, FHWA/DTFH61-92-P-40029, 09/01/92-02/28/93. Total: \$14,058.

### **Investigator Responsibilities**

59. Use of Benchmarking Techniques for Comparisons between Transit Services in Great Cities, E. Beimborn (PI), M. Greenwald (Co-PI); Federal Transit Administration through the Great Cities Coalition Urban Transportation Initiative, 7/15/03-7/14/04. (UAB subcontract award: \$3,500).
60. Application of Neural Networks to Data Fusion: A Feasibility Study, (P. C. Nelson, PI); TRB IDEA Program; National Research Council, 9/1/94-8/31/95. Total: \$96,788.
61. Baseline Performance Analysis of CTA Bus Routes 3 & 79, (R. M. Michaels, PI); US Department of Transportation, Volpe National Transportation Systems Center, 2/1/94-6/30/94. Total: \$24,936.
62. Conduct of Focus Groups to Provide Criteria for Public Education on the Kennedy Expressway Reversible Lane Control System, (R. M. Michaels, PI); Illinois Department of Transportation (IDOT), 3/1/94-8/31/94. Total: \$23,742.
63. Design of an Advanced Driver and Vehicle Advisory Navigation Concept (ADVANCE II), (N. M. Roupail, PI); Illinois Universities Transportation Research Consortium, 7/1/92-9/30/93. Total: \$397,311.
64. Design of an Advanced Driver and Vehicle Advisory Navigation Concept (ADVANCE I), (D. E. Boyce, PI); Illinois Universities Transportation Research Consortium, 7/25/91-9/30/92. Total:

\$339,000.

65. Calibration and Validation of Capacity Analysis Procedures for Left Turn Lanes in Illinois, (N. M. Rouphail, PI); Illinois Department of Transportation, 7/1/90-12/31/92. Total: \$151,574.
66. Validation of the 1985 HCM Procedures for Capacity and Level of Service of Left-Turn Lanes in Illinois, (N. M. Rouphail, PI); Illinois Department of Transportation, 7/1/89-6/30/90. Total: \$50,000.

## Other Funded Activities

67. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), May 2003, \$2,995.
68. Mervyn H. Sterne Library Faculty Grant for Collection Development (**V.P. Sisiopiku**, PI), University of Alabama at Birmingham, April 2003, \$1,929.
69. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), DDEFFP-02-X-00303, December 2001, \$2,655.
70. Division of Civil & Mechanical Systems (CMS), NSF Directorate for Engineering (**V.P. Sisiopiku**), WEE 2001, October 2001, \$500.
71. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, June 2000, \$750.
72. Engineering International Programs Funds (**V.P. Sisiopiku**); Institute for Global Engineering Education, Michigan State University, July 2000, \$780.
73. Engineering International Programs Funds (**V.P. Sisiopiku**); Institute for Global Engineering Education, Michigan State University, June 1998, \$940.
74. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, October 1998, \$630.
75. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, June 1998, \$500.
76. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), DDEFFP-95-X-00713, August 1995, \$1,780.

## Publications

### Theses Published

1. **Sisiopiku, V.P.** (1994). *Travel Time Estimation From Loop Detector Data for Advanced Traveler Information Systems Applications*, Ph.D. Thesis.
2. **Sisiopiku, V.P.** (1991). *Capacity Analysis Models for Exclusive Left-Turn Lanes*, M.S. Thesis.
3. **Sisiopiku, V.P.** (1988). *A Feasibility Study on the Application of a Light Rail System in Thessaloniki Metropolitan Area*, B.S. Thesis.

### Journal Papers

1. Jones S.L. and **Sisiopiku, V.P.** (2007). "Safety at Isolated High-Speed Signalized Intersections: Synthesis". *ASCE Journal of Transportation Engineering*, Vol. 133, No. 9, September 2007, pp. 523-528.
2. **Sisiopiku, V.P.**, Byrd, J.E., and Chittoor A. (2007). "Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities". *Journal of the Transportation Research Board, Transportation Research Record (TRR)*, No. 2002, Washington, D.C., pp. 117-124.
3. **Sisiopiku, V.P.** Li, X., Mouskos, K. C., Kamga, C., Barrett, C., and Abro, A.M. (2007). "Dynamic Traffic Assignment Modeling for Incident Management". *Journal of the Transportation Research Board, Transportation Research Record (TRR)*, No. 1994, Washington, D.C., pp. 110-116.
4. **Sisiopiku, V.P.** (2007). "Application of Traffic Simulation Modeling for Improved Emergency Preparedness Planning". *ASCE Journal of Urban Planning*, Vol. 133, No. 1, March Issue, pp. 51-60.
5. **Sisiopiku, V.P.**, Rousseau, A., Fouad, F.H., and Peters, R.W. (2006). "Technology Evaluation of

- Hydrogen Light-Duty Vehicles”. *ASCE Journal of Environmental Engineering*, Vol. 132, No. 6, June Issue, pp. 568-574.
6. Tao, R., Wei H., Wang Y., and **Sisiopiku, V.P.** (2005). “Modeling Speed Disturbance Absorption Following State-Control Action-Expected Chains: Integrated Car-Following and Lane-Changing Scenarios”. *Journal of the Transportation Research Board, Transportation Research Record (TRR) No. 1934*, Washington, D.C., pp. 83-93.
  7. **Sisiopiku, V.P.**, and Elliot, J.R. (2005). “Active Warning Systems: A Synthesis”, *ASCE Journal of Transportation Engineering*, Vol. 131, No. 3, March 2005, pp. 205-210.
  8. **Sisiopiku, V.P.**, and Akin, D. (2003). “Pedestrian Behaviors at and Perceptions towards Various Pedestrian Facilities: An Examination Based on Observation and Survey Data”, *Transportation Research, Part F, Vol. 6, Issue 4*, December 2003, pp. 249-274.
  9. **Sisiopiku, V.P.**, and Oh, H. (2001). “Evaluation of Roundabout Performance Using SIDRA”, *ASCE Journal of Transportation Engineering*, Vol. 127, No. 2, March/April Issue, pp. 143-150.
  10. **Sisiopiku, V.P.**, and Oh, H. (2001). “Stay on These Roads -ITS Applications for Winter Maintenance in the USA”, *Traffic Technology International*, June/July 2001, Surrey, UK, p. 78-83.
  11. Yang, Q., **Sisiopiku, V.P.**, Arnold, J.A., Pisano, P., and Nelson, G. (2000). “Assessment of Rural ITS Wireless Communications Solutions”, *Journal of the Transportation Research Board, Transportation Research Record (TRR) 1739*, Washington, D.C., pp. 51-58.
  12. **Sisiopiku, V.P.**, and Patel, H. (1999). “Study of the Impact of Police Enforcement on Motorists Speeds”, *Journal of the Transportation Research Board, TRR 1693*, Washington, D.C., pp. 31-36.
  13. Zhou, M., and **Sisiopiku, V.P.** (1997). “On the Relationship between Volume to Capacity Ratios and Accident Rates”, *Transportation Research Record 1581*, Washington, D.C., pp. 47-52.
  14. **Sisiopiku, V.P.**, Roupail, N.M., and Santiago, A. (1994). “Analysis of the Correlation between Arterial Travel Time and Detector Data from Simulation and Field Studies”, *Transportation Research Record 1457*, Washington, D.C., pp. 166-173.
  15. **Sisiopiku, V.P.**, and Roupail, N.M. (1994). “Towards the Use of Detector Output for Arterial Link Travel Time Estimation: A Literature Review”, *Transportation Research Record 1457*, Washington, D.C., pp. 158-165.

#### **Conference Proceedings Papers (Refereed, 3 to 5 reviewers)**

16. **Sisiopiku, V.P.**, and Cavusoglu O. (2007). “Implementation of High Occupancy Vehicle Lanes”. Proceedings of the 2007 Huntsville Simulation Conference, Huntsville, AL
17. **Sisiopiku, V.P.**, Peters R.W., and Fouad F. H. (2007). “Emissions Associated with Various Driving Cycles for Light-Duty Vehicles”, Proceedings of the 2007 Huntsville Simulation Conference, Huntsville, AL
18. **Sisiopiku, V.P.**, and Waid, J.C. (2007). “The Potential of Vehicle Mileage Road User Fee as Alternate Financing Option for State Highways”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
19. **Sisiopiku, V.P.** Li, X., Mouskos, K. C., Kanga, C., Barrett, C., and Abro, A.M. (2007). “Dynamic Traffic Assignment Modeling for Incident Management” Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
20. Akin, D., and **Sisiopiku, V.P.** (2007). “Pedestrian Crossing Compliance Characteristics At-grade Signalized Crosswalks: Case study in a Downtown-university Campus Environment”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
21. **Sisiopiku, V.P.**, Byrd, J.E., and Chittoor A. (2007). “Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
22. Akin, D., and **Sisiopiku, V.P.** (2007). “Modeling Interactions between Pedestrians and Turning-vehicles at Signalized Crosswalks Operating under Combined Pedestrian-Vehicle Interval”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
23. Waid, J.C., and **Sisiopiku, V.P.** (2007). “Alternate Financing Sources for Alabama Highways: The

- Heavy-Truck Road User Fee”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
24. Robinson, C. A., Jones, S. L., **Sisiopiku, V.P.**, and Anderson M. (2007). “Transportation Project Selection and Prioritization Methodologies for Small and Medium Sized Planning Agencies”, Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  25. **Sisiopiku, V.P.**, and Abro A.B. (2006). “Assessment of Transit Operations in Birmingham, Alabama”. Proceedings of the 2006 Huntsville Simulation Conference, Huntsville, AL.
  26. Byrd, J.E., and **Sisiopiku, V.P.** (2006). “Assessment of Pedestrian Facilities on the Basis of Level of Service”. Proceedings of the TRB 5th International Symposium on Highway Capacity and Quality of Service, Yokohama, Japan.
  27. **Sisiopiku, V.P.**, Rousseau, A, Fouad, F., and Peters, R.W. (2006). “An Assessment of Vehicular Energy Use by Hydrogen and Gasoline Powertrains for a Mid-Size Passenger Car”, Proceedings of the 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  28. **Sisiopiku, V.P.**, and Byrd J.E. (2006). “Comparison of Level of Service Methodologies for Pedestrian Sidewalks”, Proceedings of the 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  29. **Sisiopiku, V.P.**, and Tang, X. (2005). “Prioritization of ITS Options based on Commercial Vehicle Crash Reduction and Cost-Benefit Assessment”. Proceedings of the 2005 Truck & Bus Safety & Security Symposium, Alexandria, VA.
  30. Tao, R., Wei, H., Wang, Y., and **Sisiopiku, V.P.** (2005). “Modeling Speed Disturbance Absorption Following State-Control Action-Expected Chains: Integrated Car-Following and Lane-Changing Scenarios”. Proceedings of the 84<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  31. **Sisiopiku, V.P.**, and Tang, X. (2004). “Safety Impacts of Intelligent Transportation Systems Technologies on Commercial Vehicle Operation”. Proceedings of the 11<sup>th</sup> World Congress on Intelligent Transport Systems, Nagoya, Aichi, Japan.
  32. **Sisiopiku, V.P.**, Sullivan, A., Patharkar, S., Tang, X., and Jones, S. (2004). “Traffic Simulation Modeling for Emergency Preparedness Planning”, Proceedings of the 2004 ITS Safety and Security Conference, Miami, FL.
  33. **Sisiopiku, V.P.** (2004). “Intelligent Transportation Systems Applications for Increased Pedestrian Safety”, Proceedings of the 2004 ITS Safety and Security Conference, Miami, FL.
  34. **Sisiopiku, V.P.**, and Aylsworth-Bonzelet, L. (2003). “Application of Loops at Directional Cross-overs”, Proceedings of the 82<sup>nd</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  35. **Sisiopiku, V.P.**, Zhang, X., and Elwart, J.J. (2002). “Assessment of Red Light Running Camera Enforcement Technology”, Proceedings of the 81<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  36. **Sisiopiku, V.P.**, Zhang, X., and Virkler, M.R. (2002). “Pedestrian Level of Service and Quality of Operations Assessment Methods”, Proceedings of the 81<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C.
  37. **Sisiopiku, V.P.** (2001). “Winter Maintenance - ITS Options”, Proceedings of the 4<sup>th</sup> International IEEE Conference on Intelligent Transportation Systems, Oakland, CA.
  38. **Sisiopiku, V.P.** (2001). “Variable Speed Limit Control: Technologies and Practice”, Proceedings of the 11<sup>th</sup> Annual Meeting of the Intelligent Transportation Society of America, Miami Beach, FL.
  39. **Sisiopiku, V.P.**, and Oh, H. (2001). “Application of Intelligent Transportation Systems for Winter Maintenance”, Proceedings of the 80<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
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  42. Oh H., and **Sisiopiku, V.P.** (2000). “Probabilistic Models for Pedestrian Capacity and Delay at Roundabouts”, *Transportation Research Circular E-C018*, pp. 459-470.

43. Yang, K., and **Sisiopiku, V.P.** (2000). "Rural ITS Communications - Wireless Options", Proceedings of the 3<sup>rd</sup> Annual IEEE Conference on Intelligent Transportation Systems, Dearborn, MI.
44. **Sisiopiku, V.P.**, Yang, Q., and Soussan, D. (2000). "Wireless Information Transmission Services for Intelligent Transportation Systems Applications", Proceedings of the 10<sup>th</sup> Annual Meeting of ITS America, Boston, MA.
45. Yang, Q., **Sisiopiku, V.P.**, Arnold, J.A., Pisano, P., and Nelson, G. (2000). "Assessment of Rural ITS Wireless Communications Solutions". Proceedings of the 79<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
46. Oh, H., and **Sisiopiku, V.P.** (2000). "A New Concept for Local Traffic Responsive Ramp Metering", Proceedings of the 79<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
47. **Sisiopiku, V.P.**, and Akin, D. (2000). "Assessment of Pedestrian Crossing Options". Proceedings of the 79<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
48. Yang, Q., **Sisiopiku, V.P.**, and Pisano, P. (1999). "Assessment of Advanced Rural Transportation Systems Wireless Communications Requirements", Proceedings of the 6<sup>th</sup> World Congress on Intelligent Transport Systems, Toronto, Canada.
49. Abdel-Rahim A., Taylor, W.C., and **Sisiopiku, V.P.** (1999). "Analysis of Adaptive Signal Control Strategies in Urban Corridors", Proceedings of the 6<sup>th</sup> World Congress on Intelligent Transport Systems, Toronto, Canada.
50. **Sisiopiku, V.P.**, Lyles, R.W., Krunz, M., Yang, Q., Akin, D., and Abbasi, M. (1999). "Study of Speed Patterns in Work Zones", Proceedings of the 78<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
51. **Sisiopiku, V.P.**, and Akin, D. (1999). "Pedestrian Perceptions toward Various Pedestrian Treatments", Proceedings of the 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
52. Abbasi, M., **Sisiopiku, V.P.**, and Taylor, W.C. (1999). "Development and Testing of a Freeway Recurring Congestion Measure", Proceedings of the 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
53. Abbasi, M., Taylor, W.C., and **Sisiopiku, V.P.** (1999). "Development of a Data Sampling Plan to Measure Freeway Recurring Congestion", Proceedings of the 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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56. Abbasi, M., and **Sisiopiku, V.P.** (1996). "Intelligent Transportation Systems Initiatives for Commercial Vehicle Safety Enhancement in the U.S.A.". Proceedings of the 29<sup>th</sup> International Symposium on Automotive Technology and Automation, Florence, Italy, pp. 317-325.
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#### **Conference Proceedings Papers (Abstract and/or paper review, 1 to 2 reviewers)**

58. Waid J.C., **Sisiopiku, V.P.**, Sullivan, A.J., Mouskos K., Barrett C., and Conner G. (2008) "Lane Reversal Operations for Hurricane Evacuations", To appear in the Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR.
59. **Sisiopiku, V.P.**, Chemmannur J., Toutanji H.A., Zhao H., Hitchcock W.A., Richardson J.A., Uddin N., Salama T., and Kirby J. "The U.S. Experience With New Generation Weigh-In-Motion Systems", To appear in the Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR.
60. **Sisiopiku, V.P.**, Mouskos K., Barrett C., Abro A.M., and Parker N. (2008) "Evaluation of Transit

Operations Using a Regional Dynamic Traffic Assignment and Simulation Approach”, To appear in the Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR.

61. Anderson M., **Sisiopiku, V.P.**, and Jones S. (2008). “Traffic Signals on Oversaturated Corridors”, To appear in the Proceedings of the 49th Annual Transportation Research Forum, Fort Worth, TX.
62. **Sisiopiku, V.P.**, and Byrd, J.E., and (2007). “Pedestrian Level of Service Comparison”. Proceedings of the World Conference on Transport Research, Berkeley, CA.
63. **Sisiopiku, V.P.**, Waid, J.C., and Rizk T. (2007). “Comparison of Financing Options for Transportation-Related Projects”. Proceedings of the World Conference on Transport Research, Berkeley, CA.
64. **Sisiopiku, V.P.**, Chaukar, A., and Hitchcock, W. (2007). “Transit System Operations under Emergency Conditions”. Proceedings of the Transport Chicago 2007 Conference, Chicago, IL.
65. **Sisiopiku, V.P.**, Anderson, M., Berryman, R. and Jones, S. (2007). “Implementation of Transit Capacity and Quality of Service Manual Procedures for Transit Systems Evaluation in Alabama”. Proceedings of the Transport Chicago 2007 Conference, Chicago, IL.
66. Robinson, C. A., Jones, S. L., **Sisiopiku, V.P.**, and Anderson M. (2006). “Comparison and Evaluation of Simplified Transportation Project Selection and Prioritization Methodologies for Use by Small and Medium Sized Planning Agencies”. Proceedings of TRB’s Tools of the Trade Conference on Transportation Planning for Small and Medium Sized Communities, Nashville, TN.
67. Mouskos, K. C., **Sisiopiku, V.P.**, Li, X., Abro, A. M., Kamga, C., Ziliaskopoulos A., and Barrett, C. (2006). “Dynamic Traffic Assignment Applications for Incident Management”. Proceedings of the 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece.
68. **Sisiopiku, V.P.** (2006). “Analysis of Benefits and Costs from Ramp Metering Implementation”. Proceedings of the 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece.
69. **Sisiopiku, V.P.**, and Li, X. (2006). “Overview of Dynamic Traffic Assignment Options”. Proceedings of the 2006 Transportation Simulation Symposium (TSS 06), Spring Simulation Multiconference 2006, Huntsville, AL.
70. **Sisiopiku, V.P.**, and Jasti, S.P. (2005). “Performance Evaluation of Hydrogen Vehicle Technology”. Proceedings of the 2005 Huntsville Simulation Conference, Huntsville, AL.
71. Byrd, J.E., and **Sisiopiku, V.P.** (2005). “Comparison of Urban Interchange Options”. Proceedings of the 2005 Huntsville Simulation Conference, Huntsville, AL.
72. **Sisiopiku, V.P.** (2005). “Advanced Technology Options for Enhancing Pedestrian Safety”, Proceedings of the 53<sup>rd</sup> Annual Meeting of the Institute of Transportation Engineers District 5, Savannah, GA- **Winner of the Best Sponsored Technical Paper Award**.
73. **Sisiopiku, V.P.**, and Gunda V.P. (2005). “Modern Roundabouts: Design and Safety Considerations”. Proceedings of the 2005 ITE Annual Meeting and Exhibit, Las Vegas, NV.
74. **Sisiopiku, V.P.**, Das, A., and Sullivan, A. (2004). “Birmingham Area Ramp Metering Study”. Proceedings of the 2004 Huntsville Simulation Conference, Huntsville, AL.
75. Dillavou, M., Shih, A.M., Ramanip, P., **Sisiopiku, V.P.**, Jones, S.L., and Sullivan, A. (2004). “Development of a High Performance 3-D Visualization Tool for CORSIM”. Proceedings of the 2004 Huntsville Simulation Conference, Huntsville, AL.
76. **Sisiopiku, V.P.**, Tang, X., Jones S.L. (2004). “Using CORSIM for Emergency Response Planning”. Proceedings of the 2004 ITE Annual Meeting and Exhibit, Lake Buena Vista, FL.
77. Akin, D., **Sisiopiku, V.P.**, and Eryilmaz, Y. (2004). “Integration of Urban Transit Modes for Creating a Sustainable Transportation System in Large Cities of Developing Countries”. Proceedings of the WCTR 2004 Conference, Istanbul, Turkey.
78. Akin, D., and **Sisiopiku, V.P.** (2004). “A Statistical Approach in Modeling Interactions between Pedestrians and Turning-Vehicles at Signalized Crosswalks”, Proceedings of the WCTR 2004 Conference, Istanbul, Turkey.
79. **Sisiopiku, V.P.** (2004). “Regional Simulation Model for Emergency Preparedness”. Proceedings of the WCTR 2004 Conference, Istanbul, Turkey.
80. Akin D., **Sisiopiku, V.P.**, and Eryilmaz Y. (2004). “Full Integration of Istanbul’s Metro System with

- Rubber-Tire Transit". Proceedings of the WCTR 2004 Conference, Istanbul, Turkey.
81. **Sisiopiku, V.P.**, and Tang, X. (2004). "Access Management Techniques and Issues". Proceedings of the Transport Chicago 2004 Conference, Chicago, IL.
  82. **Sisiopiku, V.P.** (2003). "The Role of Intelligent Transportation Systems in Addressing Homeland Security Challenges", Proceedings of the 2003 Society of Women Engineers National Conference, Birmingham, AL.
  83. **Sisiopiku, V.P.** (2003). "Engineering Methods for Designing Safe Pedestrians Facilities", Proceedings of the 15th Workshop of the International Cooperation on Theories and Concepts in Traffic Safety (ICTCT), Vancouver, Canada.
  84. **Sisiopiku, V.P.**, and Jasti, S.P.S. (2003). "Addressing Security Issues in Public Transit", Proceedings of the Transport Chicago 2003 Conference, Chicago, IL.
  85. Tao, R., and **Sisiopiku, V.P.** (2002). "Characteristics of Driver Behavior in the Presence of Advanced Traveler Information Systems", ASCE Proceedings of the 2002 International Conference on Traffic and Transportation Studies, Guilin, China.
  86. **Sisiopiku, V.P.**, and Cruzado, I. (2002). "Safe Ways to School", Proceedings of the Sustainable City 2002 Conference, Segovia, Spain.
  87. **Sisiopiku, V.P.** (2002). "Pedestrian Crossing Compliance: Estimation Methods and Behavioral Analysis", Proceedings of the Transport Chicago 2002 Conference, Chicago, IL.
  88. **Sisiopiku, V.P.** (2001). "Implications of Cellular Telephony to Traffic Safety", Proceedings of the XIV Workshop of the International Cooperation on Theories and Concepts in Traffic Safety (ICTCT), Caserta, Italy.
  89. **Sisiopiku, V.P.** (2001). "On-Street Parking on State Roads", Proceedings of the 2001 ITE International Conference, Chicago, IL.
  90. **Sisiopiku, V.P.**, and Papaioannou, P. (2000). "Recommended Actions for the Development of Safe Pedestrian and Bicycle-Friendly Communities", Proceedings of the XIII Workshop of the International Cooperation on Theories and Concepts in Traffic Safety (ICTCT), Corfu, Greece, pp. 175-181.
  91. Akin D., and **Sisiopiku, V.P.** (2000). "Estimating Crossing Compliance at Pedestrian Crosswalks", Proceedings of the 70<sup>th</sup> ITE Annual Meeting, Nashville, TN.
  92. Yang, Q., **Sisiopiku, V.P.**, Arnold, J.A., Pisano, P., and Nelson, G. (2000). "Assessment of Rural ITS Wireless Communications Solutions", *Public Roads*, Mar/Apr 2000, p. 46, Washington, D.C. (project summary).
  93. **Sisiopiku, V.P.** (2000). "Creating Walkable Communities: The Michigan Example", Proceedings of the 70<sup>th</sup> ITE Annual Meeting, Nashville, TN.
  94. Tao, R., and **Sisiopiku, V.P.** (2000). "A Comparison of Traffic Assignment Models for ITS Applications", ASCE Proceedings of the 2<sup>nd</sup> International Conference on Traffic and Transportation Studies, Beijing, China, pp. 154-161.
  95. Akin, D., and **Sisiopiku, V.P.** (2000). "Study of Pedestrians' Perceptions and Preferences", Proceedings of the 2000 ITE International Conference, Irvine, CA.
  96. Yang, Q., **Sisiopiku, V.P.**, Pisano P., and Arnold, J. (1999). "Assessment of Multiple Wireless Solutions for Rural Intelligent Transportation Systems Applications", Proceedings of the Rural Advanced Technology and Transportation Systems International Conference, Flagstaff, AZ.
  97. **Sisiopiku, V.P.**, and Yang, Q. (1998). "Communication Issues in Commercial Vehicle Operations", Proceedings of the 31st International Symposium on Automotive Technology and Automation (ISATA), Dusseldorf, Germany, pp. 39-44.
  98. **Sisiopiku, V.P.** (1997). "Congestion Analysis of Southfield Freeway -- A Case Study", Proceedings of the Traffic Congestion and Traffic Safety in the 21st Century ASCE Conference, Chicago, Illinois, pp. 556-562.
  99. **Sisiopiku, V.P.** (1997). "Intermodalism Issues in the Freight Transportation Industry", Proceedings of the 8th IFAC Symposium on Transportation Systems '97, Chania, Greece, pp. 247-252.
  100. **Sisiopiku, V.P.**, and Abbasi, M. (1996). "Performance Assessment of FRESIM Model in Simulating Ramp Metering Schemes", Proceedings of the 66<sup>th</sup> Annual Meeting of the Institute of Transportation Engineers, Minneapolis, Minnesota, pp. 116-120.

101. **Sisiopiku, V.P.**, Palacharla, P., and Nelson, P.C. (1994). "Fuzzy Reasoning Model for Converting Loop Detector Data into Travel Times". Proceedings of the 27<sup>th</sup> International Symposium on Advanced Transportation Applications, Aachen, Germany, pp. 373-380.

## Other Publications

### Technical Reports

1. **Sisiopiku, V.P.** (2007). *Transit Systems Security: Planning, Design, and Institutional Issues*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.
2. **Sisiopiku, V.P.**, Abro A.M., Mouskos K., Parker N., and Barrett C. (2007). *Dynamic Traffic Assignment Applications to Transit*, Final Report to the Federal Transit Administration and the Urban Serving Universities Program.
3. **Sisiopiku, V.P.**, Li X., Abro A.M., and Peters R.W. (2007). *Transportation Facilities Management under Emergencies*, Final Report to the University Transportation Center for Alabama.
4. Anderson, M., Berryman R., Jones S.L., and **Sisiopiku, V.P.** (2007). *Review of Urban Transit Systems in Alabama*, Final Report to the University Transportation Center for Alabama.
5. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2007). *Seminar and TRB Conference Attendance: Year 3*, Final Report to the University Transportation Center for Alabama.
6. **Sisiopiku, V.P.** (2006). *Dynamic Traffic Assignment Options and Opportunities*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.
7. **Sisiopiku, V.P.**, Waid J., Rizk, T., McLeod, R., and Robins, W. (2006). *Alternate Financing Sources for Alabama Highways*, Technical Report to the University Transportation Center for Alabama.
8. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2006). *Seminar and TRB Conference Attendance: Year 3*, Final Report to the University Transportation Center for Alabama.
9. Jones, S.L, Sullivan, A.J., Shinde, S., and **Sisiopiku, V.P.** (2006). *Statewide Traffic Signal Design and Timing Manual*, Technical Report to the Alabama Department of Transportation.
10. **Sisiopiku, V.P.** (2005). *Design and Safety of Modern Roundabouts*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.
11. **Sisiopiku, V.P.** (2005). *Exploration of Advanced Technologies for Enhancing Pedestrian Safety*, Final Report to the Graduate School, the University of Alabama at Birmingham.
12. **Sisiopiku, V.P.**, Das, A., and Sullivan, A. (2005). *Applications of Freeway Ramp Metering in Alabama*, Technical Report to the University Transportation Center for Alabama.
13. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2005). *Student Seminar and TRB Conference Attendance II*, Final Report to the University Transportation Center for Alabama.
14. **Sisiopiku, V.P.** (2004). *Access Management Training*, Technical Report to the University Transportation Center for Alabama.
15. **Sisiopiku, V.P.**, Jones, S., Sullivan, A., Patharkar, S., and Tang, X. (2004). *Regional Traffic Simulation for Emergency Preparedness*, Technical Report to the University Transportation Center for Alabama.
16. Anderson, M., Lindley, J., and **Sisiopiku, V.P.** (2004). *Student Seminar and TRB Conference Attendance*, Final Report to the University Transportation Center for Alabama.
17. **Sisiopiku, V.P.** (2002). *Promoting Walkable Communities*, Final Report to the Michigan Department of Community Health.
18. Wilkerson, R. and **Sisiopiku, V.P.** (2002). *Building an Active Community Environment*, Final Report to the Jackson Community Foundation.
19. **Sisiopiku, V.P.**, Elwart, J., and Zhang, X. (2001). *Red Light Traffic Camera Technology, User Manual*.
20. **Sisiopiku, V.P.**, Cruzado, I., and Morales, H. (2000). *Parking on the State Trunkline System*, Technical Report to the Michigan Department of Transportation.
21. Lyles, R.W., and **Sisiopiku, V.P.** (1999). *An Evaluation of Speed Control Techniques in Work Zones*, Technical Report to the Michigan Department of Transportation.

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23. Taylor, W.C., **Sisiopiku, V.P.**, Abbasi, M., Saif, M., and Wang, Y. (1999) *Evaluation of the ATMS Deployment in Southeastern Michigan*.
24. **Sisiopiku, V.P.**, and Oh, H. (1998). *Evaluation of the Use of Roundabouts*, Technical Report to the Office of Research and Graduate Studies, Michigan State University.
25. Lyles, R.W., **Sisiopiku, V.P.**, Abbasi, M., Akin, D., Krunz, M., and Yang, Q. (1998). *1998 Work Zone Speed Study*, Technical Report to the Michigan Department of Transportation.
26. Aylsworth-Bonzelet, L., and **Sisiopiku, V.P.** (1998). *The Operation and Design of Loops at Narrow Median Crossovers*, Technical Report to the Great Lake Center for Truck and Transit Research.
27. Lyles, R.W., **Sisiopiku, V.P.**, Akin, D., Krunz, M., and Abbasi, M. (1997). *Work Zone Speed Study*, Technical Report to the Michigan Department of Transportation.
28. **Sisiopiku, V.P.** (1996). *Congestion Analysis of Southfield Freeway*, Technical Report to the Michigan Department of Transportation.
29. Berka, S., Tarko, A., Roupail, N.M., **Sisiopiku, V.P.**, and Lee, D. (1995). *Data Fusion Algorithm for ADVANCE Release 1.5*, ADVANCE Working Paper Series #37 Report, Tasks TRF-DF-106 and TRF-DF-108.
30. **Sisiopiku, V.P.**, Roupail, N.M., and Tarko, A. (1994). *Estimating Travel Times on Freeway Segments*, ADVANCE Working Paper Series #32 Report, Task TRF-DF-101.
31. **Sisiopiku, V.P.**, Palacharla P., and Nelson, P.C. (1994). *Fuzzy Reasoning Model for Converting Loop Detector Data into Travel Times*, ADVANCE Working Paper Series #38 Report.
32. **Sisiopiku, V.P.**, and Roupail, N.M. (1994). *Travel Time Estimation from Loop Detector Data for Advanced Traveler Information Systems Applications*, Technical Report to the Illinois Department of Transportation in Support of the ADVANCE Project.
33. Michaels, R.M., **Sisiopiku, V.P.**, and Sriraj, P.S. (1994). *Baseline Performance Analysis of Chicago Transportation Authority (CTA) Bus Routes 3 and 79*, Technical Report to the Volpe National Transportation Systems Center, Cont. No. 45-6166.
34. **Sisiopiku, V.P.** (1993). *Arterial Link Travel Time Estimation Based on Loop Detector Output*, Technical Report to the Federal Highway Administration, No. FHWA/ DTFH61-92-P-40029.
35. Roupail, N., Tarko, A., and **Sisiopiku V.P.** (1993). *Proposed Data Fusion for ADVANCE Release 1.5*, ADVANCE Working Paper Series #30 Report.
36. **Sisiopiku, V.P.**, and Roupail, N.M. (1993). *Exploratory Analysis of the Correlations between Arterial Link Travel Times and Detector Data from Simulation and Field Studies*, ADVANCE Working Paper Series #25 Report.
37. Roupail, N.M., and **Sisiopiku, V.P.** (1993). *Travel Time and Loop Detector Output Analysis on Dundee Road Closed-Loop Signal System*, ADVANCE Working Paper Series #24 Report.
38. **Sisiopiku, V.P.**, and Roupail, N.M. (1993). *Review of Alternative Procedures for Using Loop Detector Output to Estimate Arterial Link Travel Times*, ADVANCE Working Paper Series #23 Report.
39. Roupail, N.M., Magnuson, M., and **Sisiopiku, V.P.** (1991). *Validation of 1985 HCM Procedures for Capacity and LOS of Left Turn Lanes in Illinois*, Technical Report to the Illinois Department of Transportation, No. FHWA/IDOT/RC-012, Springfield.

### Selected Conference Presentations

1. “Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for Hurricane Evacuations on I-65”. 2008 SDITE Annual Meeting, Charleston, S.C., 2008.
2. “Implementation of Managed Lanes in Birmingham, Alabama”. 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.
3. “Emissions Associated with Various Driving Cycles for Light-Duty Vehicles”, 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.

4. "Comparison of Traffic Simulation Delay to Actual Delay". 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.
5. "Bridge Weigh-in-Motion Application in Alabama", Research Issues in Freight Transportation Conference, Washington, D.C., 2007.
6. "Traditional and Innovative Approaches for Financing Highways", 66<sup>th</sup> Annual Meeting of the Southeastern Association of State Highway and Transportation Officials (SASHTO), Huntsville, AL, 2007.
7. "Transit System Operations under Emergency Conditions". Transport Chicago 2007 Conference, Chicago, IL, 2007.
8. "Implementation of Transit Capacity and Quality of Service Manual Procedures for Transit Systems Evaluation in Alabama". Transport Chicago 2007 Conference, Chicago, IL, 2007.
9. "Dynamic Traffic Assignment and the VISTA Model". Alabama Chapter of the American Planning Associations (APA) Annual Conference, Auburn, AL, 2007.
10. "New Technologies for Engineering Tomorrow's Transportation Infrastructure", Society of Women Engineers 2007 Region D Conference, Tuscaloosa, AL, 2007.
11. "Level of Service Methodologies for Sidewalk Assessment", Alabama Section Institute of Transportation Engineers Spring Meeting, Montgomery, AL, 2007.
12. "The Potential of Vehicle Mileage Road User Fee as Alternate Financing Option for State Highways", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
13. "Pedestrian Crossing Compliance Characteristics At-grade Signalized Crosswalks: Case study in a Downtown-university Campus Environment", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
14. "Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
15. "Alternate Financing Sources for Alabama Highways: The Heavy-Truck Road User Fee", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
16. "Transit Operations in Birmingham, Alabama and the Potential Impact of Signal Priority Implementation", UTCA Research Symposium, Tuscaloosa, AL, 2006.
17. "Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for I-65", UTCA Research Symposium, Tuscaloosa, AL, 2006.
18. "Assessment of Transit Operations in Birmingham, Alabama". Huntsville Simulation Conference, Huntsville, AL, 2006.
19. "Available Options for Financing Highways", Institute of Transportation Engineers, Alabama and Deep South Section Annual Meeting 2006, Gulf Shores, AL, 2006.
20. "Dynamic Traffic Assignment Applications for Incident Management". 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece, 2006.
21. "Analysis of Benefits and Costs from Ramp Metering Implementation". 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece, 2006.
22. "Overview of Dynamic Traffic Assignment Options", Transportation Simulation Symposium, Spring Simulation Multiconference 2006, Huntsville, AL, 2006.
23. "Comparison of Level of Service Methodologies for Pedestrian Sidewalks", 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2006.
24. "An Assessment of Vehicular Energy Use by Hydrogen and Gasoline Powertrains for a Mid-Size Passenger Car", 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2006 (poster presentation).
25. "Comparative Analysis of Roundabouts and Conventional Intersection Designs", 82<sup>nd</sup> Annual Meeting of the Alabama Academy of Science, Birmingham, AL, 2005.
26. "Advanced Technology Options for Enhancing Pedestrian Safety", 53<sup>rd</sup> Annual Meeting of the Institute of Transportation Engineers District 5, Savannah, GA, 2005.
27. "Modern Roundabouts: Design and Safety Considerations", 2005 ITE Annual Meeting and Exhibit, Las Vegas, NV, 2005.

28. "Assessment of Ramp Metering Strategies", 2<sup>nd</sup> Annual UTCA Transportation Research Symposium, Birmingham, AL, 2004.
29. "Integration of Urban Transit Modes for Creating a Sustainable Transportation System in Large Cities of Developing Countries". WCTR 2004 Conference, Istanbul, Turkey, 2004 (poster presentation).
30. "A Statistical Approach in Modeling Interactions between Pedestrians and Turning-Vehicles at Signalized Crosswalks", WCTR 2004 Conference, Istanbul, Turkey, 2004.
31. "Regional Simulation Model for Emergency Preparedness". WCTR 2004 Conference, Istanbul, Turkey, 2004.
32. "Access Management Techniques and Issues". Transport Chicago 2004 Conference, Chicago, IL, 2004 (poster presentation).
33. "Traffic Simulation Modeling for Emergency Preparedness Planning", 2004 ITS Safety and Security Conference, Miami, FL, 2004.
34. "Intelligent Transportation Systems Applications for Increased Pedestrian Safety", 2004 ITS Safety and Security Conference, Miami, FL, 2004.
35. "Access Management Training", 1<sup>st</sup> Annual UTCA Transportation Research Symposium, Birmingham, AL, 2003.
36. "The Role of Intelligent Transportation Systems in Addressing Homeland Security Challenges", 2003 Society of Women Engineers National Conference, Birmingham, AL, 2003.
37. "Engineering Methods for Designing Safe Pedestrians Facilities", 15<sup>th</sup> Workshop of the International Cooperation on Theories and Concepts in Traffic Safety (ICTCT), Vancouver, Canada, 2003.
38. "Estimating Origin-Destination Matrices Using Location Data from Cell Phones", 49<sup>th</sup> Annual North American Meeting of the Regional Science Association International, San Juan, PR, 2002.
39. "Pedestrian Level of Service and Quality of Operations Assessment Methods", 81<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2002 (poster presentation).
40. "On-Street Parking on State Roads", ITE International Conference, Chicago, IL, 2001.
41. "Application of Intelligent Transportation Systems for Winter Maintenance", Transportation Research Board Annual Meeting, Washington, D.C., 2001.
42. "A Modified ALINEA Ramp Metering Model", 80<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2001.
43. "Assessment of Rural ITS Wireless Communications Solutions", 80<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2001.
44. "Estimating Crossing Compliance at Pedestrian Crosswalks", 70<sup>th</sup> ITE Annual Meeting, Nashville, TN, 2000.
45. "Creating Walkable Communities: The Michigan Example", 70<sup>th</sup> ITE Annual Meeting, Nashville, TN, 2000.
46. "Study of Pedestrians' Perceptions and Preferences", 2000 ITE International Conference, Irvine, CA, 2000.
47. "Study of the Impact of Police Enforcement on Motorists Speeds", 78<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1999.
48. "Assessment of Advanced Rural Transportation Systems Wireless Communications Requirements", 6<sup>th</sup> World Congress on Intelligent Transport Systems, Toronto, Canada, 1999.
49. "Analysis of Adaptive Signal Control Strategies in Urban Corridors", 6th World Congress on Intelligent Transport Systems, Toronto, Canada, 1999.
50. "Review and Evaluation of Incident Detection Methods", 5<sup>th</sup> World Congress on Intelligent Transport Systems, Seoul, Korea, 1998.
51. "Communication Issues in Commercial Vehicle Operations", 31<sup>st</sup> International Symposium on Automotive Technology and Automation (ISATA), Dusseldorf, Germany, 1998.
52. "Congestion Analysis of Southfield Freeway -- A Case Study", Traffic Congestion and Traffic Safety in the 21st Century ASCE Conference, Chicago, Illinois, 1997.
53. "Intermodalism Issues in the Freight Transportation Industry", 8<sup>th</sup> IFAC Symposium on Transportation Systems '97, Chania, Greece, 1997.
54. "School Bus Safety at Railroad Crossings", 1996 Michigan Traffic Safety Summit, Lansing, MI, 1996.

55. "Performance Assessment of FRESIM Model in Simulating Ramp Metering Schemes", 66th Annual Meeting of the Institute of Transportation Engineers, Minneapolis, Minnesota, 1996.
56. "Intelligent Transportation Systems Initiatives for Commercial Vehicle Safety Enhancement in the U.S.A.", 29<sup>th</sup> International Symposium on Automotive Technology and Automation, Florence, Italy, 1996.
57. "Analysis of the Correlation between Arterial Travel Time and Detector Data from Simulation and Field Studies", 74<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1995.
58. "Towards the Use of Detector Output for Arterial Link Travel Time Estimation: A Literature Review", 74<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1995.

## Honors and Awards

- Received the UAB President's Excellence in Teaching Award, April 2007.
- 2007 ITE Wilbur S. Smith Distinguished Transportation Educator Award nominee.
- Received the NSF-sponsored UAB ADVANCE Scholar Award, May 2006.
- Selected to be listed in the Global Directory of Who's Who, 2005.
- Received the NSF-sponsored UAB ADVANCE Faculty Research Award, December 2005.
- Selected for inclusion in the AcademicKeys Who's Who in Engineering Education (WWEE): <http://Engineering.academickeys.com/index.php>
- Winner of the Best Sponsored Technical Paper Award, Southern District of Institute of Transportation Engineers (ITE), April 2005.
- Member of Tau Beta Pi, the Engineering Honors Society, since April 2005.
- Nominated for the UAB President's Excellence in Teaching Award, March 2005.
- Selected to be featured in the Who's Who in Science and Engineering, Marquis Who's Who, 8<sup>th</sup> Edition, 2005-2006.
- Received the NSF-sponsored UAB ADVANCE Junior Faculty Research Award, September 2004.
- Acknowledgement Award, NIH/NIDDC-Charles R. Drew University, August 2004.
- Featured as Honored Member of Strathmore's Who's Who, May 2004.
- Initiated as faculty member of the Chi Epsilon, the Civil Engineering Honors Society, April 2004.
- Received the Dwight David Eisenhower Faculty Fellowship Award, Federal Highway Administration (FHWA), Washington, D.C., 2003.
- Received the Dwight David Eisenhower Faculty Fellowship Award, Federal Highway Administration (FHWA), Washington, D.C., 2002.
- Featured in the Who's Who in the World, Marquis Who's Who, 19<sup>th</sup> Edition, 2002.
- Featured in the Who's Who in Science and Engineering, Marquis Who's Who, 4<sup>th</sup> Edition, 1998-1999.
- Featured in the Who's Who of American Women, Marquis Who's Who, 21<sup>st</sup> Edition, 1999.
- Received the Dwight David Eisenhower Faculty Fellowship Award, Federal Highway Administration (FHWA), Washington, D.C., August 1995.
- Awarded the 1993-94 Illinois Section ITE Technical Paper Award; Illinois Section Institute of Transportation Engineers, Chicago, Illinois, April 1994.
- Received the 1992 Grant Show Memorial Scholarship; Illinois Association of Highway Engineers, Palatine, Illinois, June 1992.
- Awarded a 1992 Federal Highway Administration Grant for Research Fellowship, McLean, Virginia, May 1992.
- Winner of the Outstanding Student Paper National Award, Institute of Transportation Engineers, Washington D.C., September 1991.
- Winner of the ITE District IV Student Paper Award; North Central Section Institute of Transportation Engineers, Minneapolis, Minnesota, June 1991.
- Received the Helen Overly Scholarship; Women's Transportation Seminar National Scholarship, Seattle, Washington, April 1991.
- Winner of the Women's Transportation Seminar Scholarship, Greater Chicago Chapter, Chicago,

Illinois, March 1991.

## Teaching Experience

### **Course Developer and Instructor for:**

- **Transportation Engineering**, Undergraduate
- **Highway Operations**, Undergraduate
- **Traffic Flow Theory**, Graduate
- **Non-Motorized Transportation Design and Planning**, Graduate
- **Highway and Traffic Safety**, Graduate
- **Simulation Models for Transportation Applications**, Graduate
- **Intelligent Transportation Systems**, Graduate
- **Public Transportation Systems**, Graduate

### **Facilitator for:**

- **Transportation Engineering Seminar**, Graduate  
Current issues and research developments in transportation engineering, traffic operations, transportation planning and systems analysis.
- **Distance Learning (IITS) Courses in Transportation**  
These include: Traffic Engineering Operations, Geometric Design of Roadways, Urban and Transportation Planning, Planning and Design of Airport Facilities, Pavement Design, Pavement Rehabilitation, and Traffic Safety.

## Graduate Advising

### **Ph.D. Advisees Graduated. Chairperson Responsibilities**

1. **Charles Robinson**, Fall 2006, UAB. Ph.D. Dissertation: Managerial Decision-Making Models and their Applicability to the Transportation Project Selection and Prioritization Process.
2. **Ruihua Tao**, Spring 2003, MSU. Ph.D. Dissertation: Speed Disturbance Absorption and Traffic Stability.
3. **Heung-Un Oh**, Spring 2000, MSU. Ph.D. Dissertation: Study of Freeway Merge Bottlenecks and Development of New Local Traffic Responsive Ramp Metering Strategy.
4. **Darcin Akin**, Spring 2000, MSU. Ph.D. Dissertation: Evaluation of Pedestrian Crosswalks in an Urban Environment.
5. **Abbasi Mousa**, May 1998, MSU. Ph.D. Dissertation: Development and Testing of a Freeway Recurring Congestion Measure.

### **M.S.C.E. Advisees Graduated. Chairperson Responsibilities**

1. **Amar S. Chaukar**, Fall 2007 UAB. M.S. Thesis: Transit Operations under Emergency Conditions.
2. **Abdul Muqueet Abro**, Spring 2007 UAB. M.S. Thesis: Impact of Signal Preemption on Transit Performance.
3. **Asha Chittoor**, Fall 2006 UAB. M.S. Project: Design, Safety and Performance of HOV Lanes.
4. **Santosh Shanmugam**, Fall 2006 UAB. M.S. Project: Alternatives Analysis of a Congested Suburban Arterial Using AIMSUN.
5. **Xuping Li**, Summer 2006, UAB. M.S. Thesis: Dynamic Traffic Assignment for Incident Management
6. **Johnnie C. Waid**, Spring 2006, UAB. M.S. Thesis: Alternative Financing Sources for Alabama Highways
7. **Veera Gunda**, Fall 2005, UAB. M.S. Thesis: Design and Safety of Modern Roundabouts.
8. **Kapilkumar P. Sharma**, Fall 2005, UAB. M.S. Thesis: Implementation of Assess Management around Interstate Interchanges.

9. **Vishal Patil**, Summer 2005, UAB. M.S. Thesis: Experimental Tanker Truck Design for Increased Safety.
10. **Xiaohong Tang**, Spring 2005, UAB. M.S. Thesis: Evaluation of Safety Benefits of Intelligent Transportation Systems for Commercial Motor Vehicle Operations.
11. **Jonathan Byrd**, Spring 2005, UAB. M.S. Thesis: Assessment of Pedestrian Facilities on the Basis of Level of Service.
12. **Anirban Das**, Spring 2005, UAB. M.S. Thesis: Assessment of Ramp Metering Strategies.
13. **Sreenu Prakash S. Jasti**, Fall 2004, UAB. M.S. Thesis: Performance Evaluation of Hydrogen Vehicle Technology.
14. **Sameer Patharkar**, Spring 2004, UAB. M.S. Project: Regional Traffic Simulation for Emergency Preparedness.
15. **Alauddin Khan**, Fall 2002, MSU. M.S. Project: Improving Pedestrian Safety at Unsignalized Road Crossings.
16. **Xuesong Zhang**, Spring 2002, MSU. M.S. Project: Methods for Improving Pedestrian Safety.
17. **Nadia Kholodova**, Spring 2001, MSU. M.S. Project: Application of ITS Technologies for Improving Traffic Circulation in the Vicinity of a Work Zone.
18. **Qingyan Yang**, Fall 1999, MSU. M.S. Thesis: Assessment of Rural ITS Wireless Communications' Solutions.
19. **Haseeb Ghumman**, Fall 1999, MSU. M.S. Project: The Analysis of Signalized Intersections on a Major Arterial for Both Existing Conditions and Future Growth Impacts.
20. **Farhan Haider**, Spring 1999, MSU. M.S. Project: Evaluation of Effectiveness of Motorcycle Safety Equipment.
21. **Krunz Main**, Fall 1998, MSU. M.S. Project: Study of Motorists Speeds at Work Zones.
22. **Jong-Suk Park**, May 1997, MSU. M.S. Project: Investigating the Potential Application of Catastrophe Theory to Traffic Flow Theory.
23. **Hitesh Patel**, December 1996, MSU. M.S. Project: Effect of Police Presence on Freeway Speed Choices.

### **Current Advising. Chairperson Responsibilities**

1. **Ozge Cavusoglu** (M.S., expected graduation: Spring 2008). M.S. Thesis: Assessment of Managed Lanes Options.
2. **Jugnu Chemmannur** (M.S., expected graduation: Spring 2008). M.S. Thesis: Study of the Impacts from One- to Two-way Street Conversion.
3. **Abhishek Acharya** (M.S., expected graduation: Summer 2008). M.S. Thesis: Modeling of Oversaturated Conditions in Arterial Networks.
4. **Michael Shinouda** (M.S., expected graduation: Summer 2008). M.S. Thesis: Active Management Options
5. **Suman R. Surabhi** (M.S., expected graduation: Spring 2008). M.S. Thesis: Use of Traffic Responsive Signals to Address Weather Related and Non-Recurring Congestion.
6. **Shrikanth Mamidipalli** (M.S., expected graduation: Fall 2008). M.S. Thesis: Management of Traffic Data
7. **Germin Fadel** (M.S., expected graduation: Summer 2009).
8. **Sujit Rathi** (M.S., expected graduation: Summer 2009).

### **Public Service**

2007-present	Member, ALSITE Meeting Arrangements, Technical Program & Site Selection Committee
2007-present	Member, ALSITE Student Services and Education Committee
2006-present	Member, Society for Modeling and Simulation International
2005	Workshop Organizer and Host, Dynamic Traffic Assignment Workshop, Birmingham, AL
2005-present	Member, Alabama Academy of Science, Engineering and Computer Sciences Section
2004-present	Member, Access Management Committee, Research Subcommittee, Transportation

	Research Board
2004	Conference Organizer, 2004 Spring ALSITE Meeting, Birmingham, AL
2003-present	Member, Bicycle/Pedestrian Advisory Committee, RPCGB
2002-present	Member, UTCA Technology Transfer Steering Committee
2002-present	Member, Alabama ITE Student Chapter Task Force
2001-2002	Treasurer, Odyssey School of Greek Culture and Language, Lansing, MI
2000-2002	Chair, Non-Motorized Transportation Action Group for the State of Michigan
1997- 2000	Chair, Pedestrian Safety Action Group, Michigan Safety Management System
1998-1999	Chair, Students Affairs Committee, Intelligent Transportation Society of Michigan
1997-present	Member, Highway Capacity and Quality of Service Committee, Pedestrians Subcommittee, Transportation Research Board
1999-2002	Member, Evaluation Committee, Consortium for ITS Training and Education
1998-2002	Member, Michigan Safety Management System Steering Committee
1995-2002	Member, Intelligent Transportation Society of Michigan
1995-2002	Member, 2-Wheeled and Special Use Vehicle Group, MI Safety Management System
1994-1995	Member, ITS Technical Committee-ITE Illinois Section
1991-1996	Member, Women's Transportation Seminar
1990-present	Associate Member, Institute of Transportation Engineers
1996-1999	Member, American Society of Engineering Education
1996-1998	Member, Faculty-Professional Women's Association
1991-present	Member, Hellenic Institute of Transportation Engineers
1996-1998	Member, Sigma Xi, the Scientific Research Society
1996-present	Invited reviewer for the following publications: <ul style="list-style-type: none"> <li>▪ Microcomputers in Civil Engineering</li> <li>▪ Journal of Computer-Aided Civil &amp; Infrastructure Engineering</li> <li>▪ Vehicle Systems Dynamics</li> <li>▪ Journal of Computing in Civil Engineering</li> <li>▪ Journal of Transportation Research Board</li> <li>▪ Transportation Research, Part C: Emerging Technologies</li> <li>▪ IEEE- ITS Transactions</li> <li>▪ ASCE Journal of Transportation Engineering</li> <li>▪ PWS Publishing Company</li> <li>▪ Journal of ITS- Planning, Operations and Technology</li> <li>▪ Transportation Science</li> <li>▪ International Journal of Modelling and Simulation</li> <li>▪ Journal of Intelligent Transportation Systems</li> </ul>

### Institutional Service

2007-present	Chair, Dupuis Scholarship Committee, The University of Alabama at Birmingham
2007-2008	Member, 2008 ADVANCE Symposium Advisory Committee
2007-present	Member, School of Engineering Search Committee for Chair of Electrical and Computer Engineering
2007-present	Member, Department of Civil, Construction, and Environmental Engineering Interim Review Committee for Drs. Salama and Kirby
2007-present	Member, Department of Civil, Construction, and Environmental Engineering Search Committee for faculty search
2007-present	School of Engineering representative to the Commission on Status of Women, The University of Alabama at Birmingham
2007-present	Advisory Board Member, UAB University Transportation Center
2006-present	Affirmative Action Officer, School of Engineering, The University of Alabama at Birmingham
2006-present	Diversity Contact, School of Engineering, The University of Alabama at Birmingham

- 2006-present Chair, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham
- 2006-present Faculty Advisor, UAB Society of Women Engineers (SWE)
- 2005-2007 Member, Dupuis Executive Committee, The University of Alabama at Birmingham
- 2004-present Member, UAB ADVANCE Advisory Board, The University of Alabama at Birmingham
- 2004-2005 Member, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham
- 2004 Member, Search Committee for Faculty in Transportation Engineering, Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham
- 2004-present Member, Diversity Committee, School of Engineering, The University of Alabama at Birmingham
- 2004-present Coordinator, Civil and Environmental Engineering Certificate Programs, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham
- 2003-present Director, Transportation Laboratory, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham
- 2003-present Web Administrator, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham
- 2003-present Member, The University of Alabama at Birmingham, Center for Disaster Preparedness Department of Emergency Medicine, School of Medicine, Birmingham, AL
- 2002-present Coordinator, Transportation Program Curriculum, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham
- 2002-present Faculty Advisor, UAB Institute of Transportation Engineers Student Chapter
- 2002-present Member, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham
- 2000-2001 Member, Search Committee for Faculty in Civil Engineering, Department of Civil and Environmental Engineering, Michigan State University
- 2000-2002 Member, University Committee on Academic Governance, Michigan State University
- 2000-2002 Member, Academic Council, Michigan State University
- 2000-2002 Member, Faculty Council, Michigan State University
- 1999-2002 Member, Diversity Initiatives Advisory Committee, College of Engineering, Michigan State University
- 1995-2002 Member, Women's Advisory Committee to the Dean of Engineering, College of Engineering, Michigan State University (Chairperson 1997-1999)
- 1996-1998 Member, Graduate Studies Committee, Department of Civil and Environmental Engineering, Michigan State University (Chairperson 1998-1999)
- 1996-1999 Member, Affirmative Action Advisory Committee, College of Engineering, Michigan State University
- 1995 Member, Automotive Research Initiative, College of Engineering, Michigan State University
- 1995-2002 Faculty Advisor, Hellenic and Cypriot Association, Michigan State University
- 1995-1996 Member, Search Committee for Faculty in Civil Engineering, Department of Civil and Environmental Engineering, Michigan State University
- 1995 Member, Search Committee for Highway Traffic Safety Programs Director, Department of Civil and Environmental Engineering, Michigan State University.