

JAMES F. CAMPBELL

Professor and Chair
 Supply Chain & Analytics Department
 College of Business Administration
 University of Missouri-St. Louis
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 St. Louis, MO USA 63130-4499
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ACADEMIC EXPERIENCE

Professor of Supply Chain & Analytics	1999-Present
Chair, Supply Chain & Analytics Department (Formerly Logistics & Operations Management Department)	2015-Present
Ph.D. Program Director	2014-2016
Research Associate, International Business Institute	2006- Present
Area Coordinator, Management Science & Information Systems	1997-1999
Associate Professor of Management Science & Information Systems	1993-1999
Assistant Professor of Management Science & Information Systems	1987-1993
College of Business Administration, University of Missouri-St. Louis	
Ph.D., Industrial Engineering and Operations Research	1987
Minors: Computer Science and Electrical Engineering Systems	
M.S., Industrial Engineering and Operations Research	1983
University Of California, Berkeley	
B.S., Systems Science and Mathematics	1981
Washington University, St. Louis, Missouri	

AWARDS

Keynote Speaker, VIII International Workshop on Locational Analysis and Related Problems 2017, Segovia, Spain	2017
Anheuser Busch Excellence in Teaching Award	2013
Nominated for Best Paper Award at the 46 th Hawaii International Conference on Systems Sciences (HICSS) in the Decision Analytics track	2013
Best Paper Award at the 40 th Hawaii International Conference on Systems Sciences (HICSS) in the Decision Technologies and Service Sciences track	2007
Douglas E. Durand Award for Research Excellence	2005
Fulbright Senior Scholar Award	2000
Five month research visit to CSIRO in Melbourne, Australia.	

INSTRUCTION

Courses Taught:

Business Logistics Systems (SCMA 6330, SCMA 4330)
 Production and Operations Management (SCMA 5320)
 Advanced Supply Chain and Operations Management (SCMA 3320)
 Visualization & Analytics (LOGOM 6395, LOGOM 4398)
 Algorithms & Analytics (LOGOM 6395, LOGOM 4398)
 Advanced Operations Research Topics (LOGOM 6354)
 Management Science Methods (LOGOM 6350, LOGOM 4350)
 Introduction to Geographic Information Systems (BA 5301)
 Introduction to Operations Management (LOGOM 3320)
 Research Seminar in LSCM (LOGOM 7390 – Doctoral course)
 Continuous Approximation Modeling & Location Analysis (Special Topics in Logistics & Supply Chain Management) (LOGOM 7393 – Doctoral course)
 UMSL Professional MBA - Operations and Supply Chain Management
 Doing Business Globally – “Securing Resources, Servicing Markets” (Executive iMBA program for Seinajoki University of Applied Sciences, Finland)
 Global Supply Chain Management (for Jaingsu, China Entrepreneur training program)

Recent Independent Study Courses:

The Wine Supply Chain, Nathan Stalter, 2018
 The Dairy Industry Supply Chain in the US and India, Aditi Tapriya, 2017
 Digital Currencies, Pim Boonstra, 2017
 Vendor Selection, Abigail Price, 2017
 Mistake Proofing, Brendt McDonald, 2017
 Product Allocation for Coca-Cola Vending, J.D. Nicks, 2016
 Container on Barge, Susan Janik, 2016
 The Driver Shortage, Michael Graham, 2016
 A Comparison of Supply Chain Ranking Methodologies, Tommy Starr, 2015

Internships Supervised For Students At:

Unyson Logistics; Boeing; Graybar; Nidec Motor Corporation; DHL Supply Chain; The Little Bit Foundation; Ingersoll Rand; Edgewell; Novus International; Fastenal Company; ABB; Unigroup; Flight Safety; The Resource Group; H-J Enterprises; Tom Lange, Company; Dow Screw Products, Inc.; Unigroup Worldwide, Inc.; Express Scripts; Sunset Transportation

PUBLICATIONS: Refereed Articles and Book Chapters

60. Otto, A., Agatz, N., Campbell, J., Golden, B., Pesch, E. “Optimization approaches for civil applications of unmanned aerial vehicles (UAVs) or aerial drones: A survey”, *Networks* DOI: 10.1002/net.21818, 2018.
59. Millstein, M.A., Campbell, J.F. “Total Hockey Optimizes Omnichannel Facility Locations”, *Interfaces*, in press, 2018.

58. Campbell, J.F., “Comments on: Continuous Approximation Models in Freight Distribution Management”, *TOP* 25, 43-437, 2017.
57. Yang, L. Li, H, Campbell, J.F., Sweeney II, D.C. “Integrated Multi-Period Dynamic Inventory Classification and Control”, *International Journal of Production Economics* 189, 86-96, 2017.
56. Camargo, R.S., Miranda, G., O' Kelly, M.E., Campbell, J.F., “Formulations and Decomposition Methods for the Incomplete Hub Location Problem With and Without Hop-Constraints”, *Applied Mathematical Modelling* 51, 274-301, 2017.
55. Konur, D., Monfared, S., Campbell, J.F. “Economic and Environmental Considerations in A Stochastic Inventory Control Model with Order Splitting under Different Delivery Schedules Among Suppliers”, *Omega: The International Journal of Management Science* 71, 46-65, 2017.
54. Peker, M., Kara, B.Y., Campbell, J.F. and Alumur, S.A., “Spatial Analysis of Single Allocation Hub Location Problems”, *Networks and Spatial Economics* 16(4), 1075–1101, 2016.
53. Ellegood, W.A., Campbell, J.F. and North, J., “Continuous Approximation Models for Mixed Load School Bus Routing”, *Transportation Research Part B* 77, 182–198, 2015.
52. O'Kelly, M.E., Campbell, J.F., de Camargo, R.S. and de Miranda, Jr., G., “Multiple Allocation Hub Location Model with Fixed Arc Costs”, *Geographical Analysis* 47 (1), 73–96, 2015.
51. Campbell, J.F., North, J.W. and Ellegood, W.A. “Modeling Mixed Load School Bus Routing”, in H-J. Sebastian, P. Kaminsky, T. Muller (eds.) *Quantitative Approaches in Logistics and Supply Chain Management*, Series: Lecture Notes in Logistics, Springer International Publishing, Switzerland, 3-30, 2015.
50. Sasaki, M., Campbell, J.F., Krishnamoorthy, M. and Ernst, A., “A Stackelberg Hub Arc Location Model for a Competitive Environment”, *Computers and Operations Research* 47, 27-41, 2014.
49. Sweeney, K., Campbell, J.F., Sweeney, D., “Impact of Shipper’s Choice on Transportation System Congestion and Performance: Integrating Random Utility with Simulation”, *Transportation Journal* 53(2), 143-179, 2014.
48. Campbell, J.F., Langevin, A., and Perrier, N., “Advances in Vehicle Routing for Snow Plowing”, in A. Corberan and G. Laporte (eds.) *Arc Routing: Problems, Methods, and Applications*, MOS-SIAM Series on Optimization, SIAM, Philadelphia, 321-350, 2014.
47. Chan, C.K., Lee, Y.C.E. and Campbell, J.F., “Environmental Performance – Impacts of Vendor-buyer Coordination”, *International Journal of Production Economics* 145, 683-695, 2013.
46. Campbell, J. F., “A Continuous Approximation Model for Time Definite Many-to-Many Transportation”, *Transportation Research Part B* 54, 100-112, 2013.
45. Campbell, J.F., O'Kelly, M.E. “Twenty-Five Years of Hub Location Research”, *Transportation Science* 46 (2), 153-169, 2012.

44. Smith, L.D. and Campbell, J.F. "Editorial" for special issue: "New Perspectives on Revenue Management in Transportation Services", *International Journal of Revenue Management* Vol. 6, Nos. 1-2, 1-4, 2012.
43. Perrier, N., Campbell, J.F., Gendreau, M. and Langevin, A., Vehicle Routing Models and Algorithms for Winter Road Spreading Operations, in *Hybrid Algorithms for Service, Computing and Manufacturing Systems: Routing and Scheduling Solutions*, J.R. Montoya-Torres, A.A. Juan, L. Huaccho, J. Faulin and G. Rodriguez-Verjan, eds. IGI-Global, Hershey, Pennsylvania, 15-45, 2012.
42. Sweeney, D.C. II, Campbell, J.F. and Mundy, R.A. "Teaching Supply Chain and Logistics Management through Commercial Software", *International Journal of Logistics Management* 21, 293-308, 2010.
41. Campbell, J.F. "Hub Location for Time Definite Transportation", *Computers & Operations Research* 36, 3107-3116, 2009.
40. Smith, L.D., Sweeney, D.C. II, and Campbell, J.F. "Simulation of Alternative Approaches to Relieving Congestion at Locks in a River Transportation System", *Journal of the Operational Research Society* 60, 519-533, 2009.
39. Perrier, N., Langevin, A. and Campbell, J.F. "The Sector Design and Assignment Problem for Snow Disposal Operations", *European Journal of Operational Research* 189,508-525, 2008.
38. Smith, L.D., Campbell, J.F., and Mundy, R. "Modeling Net Rates for Expedited Freight Services", *Transportation Research E* 43, 192-207, 2007.
37. Perrier, N., Langevin, A. and Campbell, J.F. "A Survey of Models and Algorithms for Winter Road Maintenance System Design. Part III: Vehicle Routing and Depot Location for Spreading", *Computers & Operations Research* 34, 211-257, 2007.
36. Perrier, N., Langevin, A. and Campbell, J.F. "A Survey of Models and Algorithms for Winter Road Maintenance System Design: Part IV: Vehicle Routing and Fleet Sizing for Plowing and Snow Disposal", *Computers & Operations Research* 34, 258-294, 2007.
35. Perrier, N., Langevin, A. and Campbell, J.F. "A Survey of Models and Algorithms for Winter Road Maintenance. Part I: System Design for Spreading and Plowing", *Computers & Operations Research* 33, 209-238, 2006.
34. Perrier, N., Langevin, A. and Campbell, J.F. "A Survey of Models and Algorithms for Winter Road Maintenance. Part II: System Design for Snow Disposal", *Computers & Operations Research* 33, 239-262, 2006.
33. Campbell, J.F., Ernst, A. and Krishnamoorthy, M. "Hub Arc Location Problems: Part I - Introduction and Results", *Management Science* 51, 1540-1555, 2005.
32. Campbell, J.F., Ernst, A. and Krishnamoorthy, M. "Hub Arc Location Problems: Part II - Formulations and Optimal Algorithms", *Management Science* 51, 1556-1571, 2005.

31. Riopel, D., Langevin, A., and Campbell, J.F. "The Network of Logistics Decisions", in A. Langevin and D. Riopel (eds.). *Logistics Systems: Design and Optimization*, Springer, New York, 1-38, 2005.
30. Campbell, J.F. "Strategic Network Design for Motor Carriers", in A. Langevin and D. Riopel (eds.). *Logistics Systems: Design and Optimization*, Springer, New York, 245-278, 2005.
29. Smith, L.D., Campbell, J.F., and Mundy, R. "Basing Rate Adjustments for Motor Carriers on Statistical Evidence", *Journal of Transportation Management* 15(1), 1-13, 2004.
28. Campbell, J.F., Stiehr, G., Ernst, A. and Krishnamoorthy, M., "Solving Hub Arc Location Problems on a Cluster of Workstations", *Parallel Computing* 29, 555-574, 2003.
27. Campbell, J.F. and Langevin, A. "Sector Design for Snow Removal and Disposal in Urban Areas", *Socio-Economic Planning Science* 36, 183-200, 2002.
26. Campbell, J.F., Ernst, A. and Krishnamoorthy, M. "Hub Location Problems", in Z. Drezner and H. Hamacher (eds.). *Facility Location: Applications and Theory*, Springer-Verlag, Heidelberg, Germany, 373-408, 2002.
25. Campbell, J.F. Labelle, A. and Langevin, A. "A Hybrid Urban Travel Distance Approximation for a GIS-based Decision Support System", *Journal of Business Logistics* 22, 165-181, 2001.
24. Smith, L.D., Subramanian, A., Campbell, J.F., Bird, D. and Nelson, A.C. "Strategic Planning for Municipal Information Systems: Lessons from a Large US City", *American Review of Public Administration* 31(2), 139-157, 2001.
23. Campbell, J.F. and Langevin, A. "Roadway Snow and Ice Control", in M. Dror (Ed.) *Arc Routing: Theory, Solutions, and Applications*, Kluwer Academic Publishers, Norwell, Massachusetts, 389-418, 2000.
22. Campbell, J.F. and Langevin, A. "A survey of arc routing applications for roadway snow and ice control", Cahiers du GERAD, 1999.
21. Subramanian, A., Smith, L.D., Nelson, A.C., Campbell, J.F. and Bird, D. "Strategic Planning for Data Warehousing", *Information & Management* 33, 99-113, 1997.
20. Campbell, J.F. "Introduction", *Location Science* 4, 121-123, 1996. (Introduction to special issue on hub location for which I served as guest editor.)
19. Campbell, J.F. "Hub Location and the p -Hub Median Problem", *Operations Research* 44, 923-935, 1996.
18. Langevin, A., Mbaraga, P. and Campbell, J. F. "Continuous Approximation Models in Freight Distribution: An Overview", *Transportation Research* 30B, 163-188, 1996.
17. Campbell, J. F. and Langevin, A. "The Snow Disposal Assignment Problem", *Journal of the*

- Operational Research Society* 46, 919-929, 1995.
16. Campbell, J. F. and Langevin, A. "Operations Management for Urban Snow Disposal", *Transportation Research* 29A, 359-370, 1995.
 15. Campbell, J. F. "Peak Period Large Truck Restrictions and a Shift to Off-Peak Operations: Impact on Truck Emissions and Performance", *Journal of Business Logistics* 16(2), 227-248, 1995.
 14. Campbell, J. F. "Using Small Trucks to Circumvent Large Truck Restrictions: Impacts on Truck Emissions and Performance Measures", *Transportation Research* 29A, 445-459, 1995.
 13. Campbell, J.F. "Integer Programming Formulations of Discrete Hub Location Problems", *European Journal of Operational Research* 72, 387-405, 1994.
 12. Campbell, J.F. "A Survey of Network Hub Location", *Studies in Locational Analysis* 6, 31-49, 1994.
 11. Campbell, J.F. "Continuous and Discrete Demand Hub Location Problems", *Transportation Research* 27B, 473-482, 1993.
 10. Campbell, J.F., "One-to-Many Distribution with Transshipments: An Analytic Model", *Transportation Science* 27, 330-340, 1993.
 9. Campbell, J.F. "Location-Allocation for Distribution to a Uniform Demand with Transshipments", *Naval Research Logistics* 39, 635-649, 1992.
 8. Campbell, J.F. "Location and Allocation for Distribution Systems with Transshipments and Transportation Economies of Scale", *Annals of Operations Research* 40, 77-99, 1992.
 7. Campbell, J.F. "Selecting Routes to Minimize Urban Travel Time", *Transportation Research* 26B, 261-274, 1992.
 6. Campbell, J.F. and Joshi, K. "Materials Receiving Capacity and Inventory Management", *OMEGA, The International Journal of Management Science* 19, 559-566, 1991.
 5. Joshi, K. and Campbell, J.F. "Managing Inventories in a JIT Environment", *International Journal of Purchasing and Materials Management* 27(2), 32-36, 1991.
 4. Campbell, J.F. "Freight Consolidation and Routing with Transportation Economies of Scale", *Transportation Research* 24B, 345-361, 1990.
 3. Campbell, J.F. "Locating Transportation Terminals to Serve an Expanding Demand", *Transportation Research* 24B, 173-192, 1990.
 2. Campbell, J.F. "Designing Logistics Systems by Analyzing Transportation, Inventory and Terminal Cost Tradeoffs", *Journal of Business Logistics* 11, 159-179, 1990.

1. Kahng, J.K., Jeng, C.Y., Campbell, J.F. and May, A.D. “Developing Segmentwide Traffic Responsive Freeway Entry Control”, *Transportation Research Record* 957, 5-13, 1984.

PUBLICATIONS: Refereed Articles under review

- Campbell, J.F., Corberan, A., Plana, I., Sanchis, J.M. “Drone Arc Routing Problems”, *Networks*, under review, 2018.
- Alumur, S.A., Campbell, J.F., Contreras, I., Kara, B.Y., Marianov, V. and O’Kelly, M.E. “On Modeling Hub Location Problems”, *Computers & Operations Research*, under review, 2018.
- Chan, C.K., Man, N., Fang, F, Campbell, J.F. “Supply Chain Coordination with Reverse Logistics: A Vendor/Recycler-Buyer Synchronized Cycles Model”, *Omega: The International Journal of Management Science*, under review, 2018.
- Ellegood, W., Solomon, S., North, J., Campbell, J.F. “School Bus Routing Problem: Contemporary Trends and Research Directions”, *Omega: The International Journal of Management Science*, under review, 2018.
- Yang, L., Li, H., Campbell, J.F. “Integrated Inventory Management to Maximize Order Fulfillment Measures”, *Journal of Business Logistics*, under revision, 2017.
- Sweeney, K.D., Sweeney II, D.C., Campbell, J.F., “The Performance of Priority Dispatching Rules in a Complex Job Shop: A Study on the Upper Mississippi River”, to be submitted to *International Journal of Production Economics*.

PUBLICATIONS: Research Reports, Book Reviews, Proceedings and Other Works

- Campbell, J.F., Sweeney II, D.C., Zhang, J., Pan, D. “Strategic Design for Delivery with Linked Transportation Assets: Trucks and Drones - Final Report”, Institute for Transportation, Iowa State University, Ames, IA, January 2018.
- Campbell, J.F., Sweeney II, D.C., Strategic Design for Delivery with Linked Transportation Assets: Trucks and Drones Tech Transfer Summary, MTC (Midwest Transportation Center), Iowa State University, Ames, IA, January 2018,
- Campbell, J.F., “Strategic Design of Drone Delivery Systems”, Proceedings of the VIII International Workshop on Locational Analysis and Related Problems, Segovia, Spain, Sept. 29, 2017, M. Baldomero-Naranjo, I. Espejo-Miranda, L. I. Martínez-Merino, A. M. Rodríguez-Chía and D. Ruiz-Hernández, eds. ISBN:978-84-697-5263-0, 2017.
- Campbell, J.F., Sweeney II, D.C., Zhang, J., “Strategic Design for Delivery with Trucks and Drones”, Supply Chain & Analytics Report SCMA-2017-0201, College of Business Administration, University of Missouri-St. Louis, St. Louis, MO, 2017.

- Camargo, R.S., Miranda, G., O' Kelly, M.E., Campbell, J.F., "Formulations and Decomposition Methods for the Incomplete Hub Location Problem With and Without Hop-Constraints", *Optimization Online*, http://www.optimization-online.org/DB_HTML/2016/08/5575.html.
- Konur, D., Campbell, J.F., Monfared, S., "Effects of Sourcing Decisions in a (Q,R) Model Under Carbon Trading", *Proceedings of the 2017 Industrial and Systems Engineering Research Conference*, K. Coperich, E. Cudney, H. Nembhard, eds., 2017.
- Campbell, J.F. Miranda, Jr., G., Camargo, R.S., O'Kelly, M.E. "Hub Location and Network Design with Fixed and Variable Costs", *Proceedings of the 48th Annual Hawaii International Conference on System Sciences*, Computer Society Press, 1059-1067, 2015.
- Konur, D. and Campbell, J.F. "Analysis of Carbon Emission Regulations in Supply Chains with Volatile Demand", Center for Transportation Infrastructure and Safety/NUTC Program, Missouri University of Science and Technology, Report NUTC R358/R359, July 2014.
- Campbell, J.F. "Modeling Economies of Scale in Transportation Hub Networks", *Proceedings of the 46th Annual Hawaii International Conference on System Sciences*, Computer Society Press, 1154-1163, 2013.
- Campbell, J.F. and Nickerson, J., "Optimal Arrangements for Assembling a Network in an Emergency", *Proceedings of the 44th Hawaii International Conference on System Sciences (HICSS-44)*, 10 pages, CD-ROM, IEEE Computer Society, January 2011.
- Perrier, N., Campbell, J.F., Gendreau, M. and Langevin, A., *Vehicle Routing Models and Algorithms for Winter Road Spreading Operations*, CIRRELT-2010-53, Universite de Montreal, Montreal, Canada, 2010.
- Campbell, J.F., "Designing Hub Networks with Connected and Isolated Hubs", *Proceedings of the 43rd Hawaii International Conference on System Sciences (HICSS-43)*, 10 pages, CD-ROM, IEEE Computer Society, January 2010.
- Campbell, J.F., "Designing Hub Networks with Connected and Isolated Hubs", *Odysseus 2009 (International Workshop on Freight Transportation and Logistics) Proceedings*, 3 pages, CD-ROM, Cesme, Turkey, May 26-29, 2009.
- Sasaki, M., Campbell, J.F., Ernst, A.T., and Krishnamoorthy, M., "Hub Arc Location with Competition", Nanzan-TR-2009-02, Technical Report of the Nanzan Academic Society, Japan, 2009. <http://www.seto.nanzan-u.ac.jp/msie/nas/tech-report/NANZAN-TR-2009-02.pdf>
- Sasaki, M., Campbell, J.F., Krishnamoorthy, M. and Ernst, A.T., "Designing Hub and Spoke Transportation Systems for a Competitive Environment", *International Conference of Industrial Engineering and Systems Management (IESM 2009) Proceedings*, 10 pages, CD-ROM, Montreal, Canada, May 13-15, 2009.
- Campbell, J.F., Smith, L.D., and Sweeney II, D.C. "A Robust Strategy for Managing Congestion at Locks on the Upper Mississippi River", *Proceedings of the 42nd Hawaii International Conference on System Sciences (HICSS-42)*, 10 pages, CD-ROM, IEEE Computer Society,

January 2009.

- Smith, L.D., Nauss, R.M., Campbell, J.F., and Sweeney II, D.C. “Triangulation of Modeling Methodologies for Strategic Decisions in an Inland Waterway Transportation System”, *Proceedings of the 42nd Hawaii International Conference on System Sciences (HICSS-42)*, 10 pages, CD-ROM, IEEE Computer Society, January 2009.
- Smith, L.D., Sweeney II, D.C., Campbell, J.F. and Nauss, R.M. “Simulation of Operating Procedures and Infrastructure Changes in the Upper Mississippi Navigation System”, *Proceedings of the 2008 Spring Simulation Multiconference*, Ottawa, Canada, 2008, 231-238.
- Campbell, J.F., Smith, L.D., Sweeney II, D.C., Mundy, R. and Nauss, R.M. “Decision Tools for Reducing Congestion at Locks on the Upper Mississippi River”, *Proceedings of the 40th Hawaii International Conference on System Sciences (HICSS-40)*, 10 pages, CD-ROM, IEEE Computer Society, January 2007.
- Smith, L.D., Sweeney II, D.C., and Campbell, J.F. “A Simulation Model to Evaluate Decision Rules for Lock Operations on the Upper Mississippi River”, *Proceedings of the 40th Hawaii International Conference on System Sciences (HICSS-40)*, 10 pages, CD-ROM, IEEE Computer Society, January 2007.
- Smith, L.D., Campbell, J.F., and Mundy, R. “Modeling Revenues for Expedited Freight Services”, *Proceedings of the Western Decisions Sciences Institute Conference*, Waikoloa, Hawaii, April 11-15, 2006.
- Mundy, R.A. and Campbell, J.F., *Management Systems for Inland Waterway Traffic Control*, Volume I: *Identification and Evaluation of Alternatives for Managing Lock Traffic on the Upper Mississippi River*, Final Report, Center for Transportation Research and Education, Iowa State University, Ames, Iowa, November, 2005.
- Mundy, R.A. and Campbell, J.F., *Management Systems for Inland Waterway Traffic Control*, Volume II: *Vessel Tracking for Managing Traffic on the Upper Mississippi River*, Final Report, Center for Transportation Research and Education, Iowa State University, Ames, Iowa, November, 2005.
- Sweeney, D., Campbell, J.F. and Mundy, R. “Teaching with Commercial Logistics and Supply Chain Software”, *Proceedings of the Thirty-Fourth Annual Supply Chain Management Educators Conference*, San Diego, California, October 23, 2005.
- Campbell, J.F., Ernst, A. and Krishnamoorthy, M. “Models and Algorithms for Locating Hub Arcs”, *Proceedings 15th National ASOR Conference*, (Gold Coast, Australia, 4-7 July 1999), 269-283, 1999.
- Campbell, J.F., Ernst, A. and Krishnamoorthy, M. “New Models for Hub Location in Transportation Networks”, *3rd Congrès international de génie industriel/International Industrial Engineering Conference - Actes/Proceedings*, Vol. III, 2063-2072, Presses Internationales Polytechnique, May 1999.

- Riopel, D., Langevin, A. and Campbell, J.F. *Integrating Logistics in Concurrent Product and Process Design*, GERAD Report G-98-13, GERAD-HEC Montreal, Montreal, Canada, 1998.
- Riopel, D., Langevin, A. and Campbell, J.F. *Processus décisionnel des fonctions logistiques*, GERAD Report G-98-16, GERAD-HEC Montreal, Montreal, Canada, 1998.
- Riopel, D., Langevin, A. and Campbell J.F. "Integrating Logistics in Concurrent Product and Process Design", *Proceedings of the 2nd International Conference on Engineering Design and Automation*, H.R. Parsaei, M. Gen, Y. Tsujimura, H.R. Leep, J.P. Wong, eds., Integrated Technology Systems, Inc., Louisville, Kentucky, 1998.
- Campbell, J.F. "Snowfighting with GIS: Route Planning Applications", Report prepared for URISA '97, Toronto, Canada, http://www.psrgroup.on.ca/WP_URISA.htm, 1997.
- Smith, L. Douglas, Campbell, J.F., Subramanian, A., Bird, D.A. and Nelson, A.C. "Strategic Planning for Municipal Information Systems: Methodology, Application and Results", *Proceedings of the Twenty-Sixth Annual Meeting of the Western Decision Sciences Institute*, Richard L. Jenson, ed., 505-506, 1997.
- Book review of *Gravity Models for Spatial Interaction Behavior*, by A. Sen and T. Smith, *Transportation Research* 31A, 349-350, 1997.
- Campbell, J.F. "An Interdisciplinary Approach to GIS for Business Schools", *Business Geographics for Educators and Researchers Proceedings* 30 May 1996, 35-44.
- Subramanian, A., Smith, L. D., Nelson, A. C., Campbell, J.F., and Bird, D. "Strategic Planning for Data Warehousing in the Public Sector", *Proceedings of the Twenty-Ninth Annual Hawaii International Conference on System Sciences*, 454-461, 1996.
- Nauss, R., Campbell, J.F. and Ronen, D. *Research Productivity at Business Schools in the Big 10, Big 8 and the State of Missouri*, Center for Business & Industrial Studies report CBIS 95-06-03, University of Missouri - St. Louis, St. Louis, Missouri, 1995.
- Campbell, J.F. ArcView 2 Layout (map product) and descriptive text, p. 255-257 in *Inside ArcView*, by S. Hutchinson and L. Daniel, OnWord Press, Santa Fe, New Mexico, 1995.
- Labelle, A., Langevin, A., and Campbell, J.F. "Optimisation du deneigement: design des secteurs et affectations aux sites de deversement", *Congrès international de genie industriel de Montreal/International Industrial Engineering Conference - Actes/Proceedings*, Vol. III, 1865-1874, Editions de l'Ecole Polytechnique, October 1995.
- Campbell, J.F. and Langevin, A. "Managing Urban Snow Removal and Disposal Operations", *Proceedings of the Triennial Symposium on Transportation Analysis*, Tristan II, 851-855, Capri, Italy, June, 1994.
- Campbell, J.F. and Langevin, A. "Dénéigement urbain: le problème de l'affectation de la neige aux sites de déversement", *Cahiers du GERAD*, 1994.

Campbell, J.F. and Langevin, A. “La gestion des opérations de déneigement”, Cahiers du GERAD, 1994.

Campbell, J.F. Book review of *Transportation Networks: A Quantitative Treatment*, by Dusan Teodorovic, *Transportation Research* 25A, 150-152, 1991.

Campbell, J.F., Walter, J.E., Smith, L.D. et al. *Impact of the Proposed Expansion of Lambert Airport upon Instructional Processes and Finances of the Pattonville School District*, Report prepared for the Pattonville School District, The Center for Business and Industrial Studies, UM-St. Louis, July, 1990.

Campbell, J.F., Babcock, P.S., May, A.D. “Frecon2 User's Guide”, Institute of Transportation Studies Research Report, University of California, Berkeley, 1984.

PRESENTATIONS (since 2000)

Yang, L., Li, H., Campbell, J.F. “Optimizing Order Fulfillment Performance through Integrated Inventory Management”, CSCMP 2018 Academic Research Symposium, accepted for presentation, September 30, 2018.

Campbell, J.F. “Strategic Design for Hybrid UAV-Truck Delivery Systems”, UAV Payload Delivery Working Group (UPDWG) Roundtable Discussion Webinar, June 26, 2018.

Campbell, J.F. “Drone Expert Panel & Demonstration”, Transportation Club of UMSL and Transportation Research Forum, St. Louis, MO, March 21, 2018.

Campbell, J.F., Sweeney II, D.C., Zhang, J. “Delivery with Trucks and Drones”, INFORMS National Meeting, Houston, TX, October 22, 2017.

Campbell, J.F., “Strategic Design of Drone Delivery Systems”, VIII International Workshop on Locational Analysis and Related Problems, Segovia, Spain, Sept. 29, 2017.

Campbell, J.F., “Strategic Design for Delivery with Trucks and Drones”, University of Edinburgh, Edinburgh, Scotland, May 12, 2017.

Campbell, J.F., “Better Modeling Hub Location Problems”, University of Valencia, Valencia, Spain, May 24, 2017.

Campbell, J.F., Sweeney II, D.C., Zhang, J. “Strategic Design for Delivery with Trucks and Drones”, INFORMS National Meeting, Nashville, TN, November, 2016.

Campbell, J.F. and Alumur, S. “Modeling Hub Location Problems”, INFORMS National Meeting, Nashville, TN, November, 2016.

Yang, L., Li, H., Campbell, J.F. and Sweeney II, D.C., “Integrating Inventory Classification And Control Decisions To Maximize Order Fulfillment Measures”, INFORMS National Meeting, Nashville, TN, November, 2016.

- Konur, D., Campbell, J.F., Monfared, S., “Economic And Environmental Considerations In A Stochastic Inventory Control Model With Order Splitting Under Different Delivery Schedules Among Carriers”, INFORMS National Meeting, Nashville, TN, November, 2016.
- Campbell, J.F., Sweeney II, D.C., Zhang, J. “Strategic Design for Delivery with Trucks and Drones”, CSCMP Educator’s Conference, Orlando, FL, September 2016.
- Millstein, M., Campbell, J.F., “Omni-channel Warehouse Location with Competition: Application to a US Sporting Goods Retailer”, CSCMP Educator’s Conference, Orlando, FL, September 2016.
- Campbell, J.F. “Incorporating Analytics & Big Data in the SC Curriculum”, 4th Annual SCM Director's Conference, Santa Clara University, March 2015
- Campbell, J.F. Miranda, Jr., G., Camargo, R.S., O’Kelly, M.E. “Hub Location and Network Design with Fixed and Variable Costs”, 48th Annual Hawaii International Conference on System Sciences (HICSS), Kauai, Hawaii, January, 2015.
- “Modeling Hub Location and Network Design with Fixed and Variable Costs”, INFORMS National Meeting, San Francisco, CA, November, 2014. (J.F. Campbell, G. de Miranda, Jr., R.S. de Camargo, M.E. O’Kelly)
- “Continuous Approximation Models for Mixed Load School Bus Routing”, 8th Workshop on Logistics & Supply Chain Management, Berkeley, California, October 4, 2013. (J.F. Campbell, W. Ellegood and J. North)
- “Modeling Economies of Scale for Transportation Hub Location”, EURO/INFORMS International Conference, Rome, Italy, July 3, 2013.
- “Modeling Economies of Scale for Transportation Hub Location”, EWGLA XX Meeting, EURO Working Group on Locational Analysis, Ankara Turkey, April 17-19, 2013.
- “Modeling Economies of Scale in Transportation Hub Networks”, 46th Annual Hawaii International Conference on System Sciences (HICSS), Maui, HI, January 7-10, 2013.
- “Economies of Scale in Hub Location Problems”, INFORMS National Meeting, Phoenix, AZ, October, 2012.
- “Continuous Approximation Modeling for Mixed Load School Bus Routing”, INFORMS National Meeting, Phoenix, AZ, October, 2012. (W. Ellegood, J.F. Campbell and J. North; presentation by W. Ellegood)
- “A Hybrid Algorithm for the Mixed Load School Bus Routing Problem”, INFORMS National Meeting, Phoenix, AZ, October, 2012. (J. North, J.F. Campbell and W. Ellegood; presentation by J. North)

- “Embedding Shippers’ Preferences in a Simulation Model of a Congested Segment of the Upper Mississippi River”, 53rd Annual Transportation Research Forum, Tampa, FL, March 2012 (K. Sweeney, D. Sweeney, J.F. Campbell; presentation by K. Sweeney)
- “Competitive Hub Arc Network Design for Airlines”, EWGLA XIX (European Working group on Location Analysis), Nantes, France, October 13, 2011.
- “25 Years of Hub Location”, EWGLA XIX (European Working group on Location Analysis), Nantes, France, October 12, 2011.
- “Design of Competing Transportation Hub Networks”, 7th workshop on Workshop on Logistics and Supply Chain Management, Berkeley, CA., October 4, 2011.
- “Competitive Stackelberg Hub Location”, IFORS 2011 conference, Melbourne, Australia, July 11, 2011.
- “Optimizing Transportation Hub Location and Hub Network Design”, Math & CS Colloquium talk, UM St. Louis, January 11, 2011.
- “Hub Location & Hub Network Design”, invited presentation for *Spring School on Supply Chain and Transportation Network Design*, HEC Montreal, Canada, May 14, 2010.
- “Designing Hub Networks with Connected and Isolated Hubs”, Odysseus 2009 (International Workshop on Freight Transportation and Logistics), Cesme, Turkey, May 29, 2009.
- “Designing Hub and Spoke Transportation Systems for a Competitive Environment”, Invited presentation at International Conference of Industrial Engineering and Systems Management (IESM 2009), Montreal, Canada, May 15, 2009.
- “New Directions in Hub Location Research for Transportation Systems”, Invited presentation at University of Illinois Industrial and Enterprise Systems Engineering seminar, University of Illinois, April 28, 2009.
- “Hub Location for Time Definite Transportation”, INFORMS Annual Meeting, Washington, D.C., October 2008.
- “Hub Location for Time Definite Transportation”, ISOLDE XI (International Symposium on Locational Decisions), Santa Barbara, California, July 2008.
- “Simulation of Operating Procedures and Infrastructure Changes in the Upper Mississippi Navigation System” 2008 Spring Simulation Multiconference, Ottawa, Canada, April 2008.
- “Managing Congestion at Locks on the Upper Mississippi River (UMR)”, 5th Workshop on Logistics and Supply Chain Management, Berkeley, California, October 2007.
- “Modeling and Managing Congestion at Locks on the Upper Mississippi River”, Auckland University of Technology, Auckland, New Zealand, July 2007.

- “Decision Tools for Reducing Congestion at Locks on the Upper Mississippi River”, Hawaii International Conference on System Sciences (HICSS-40), Waikoloa, Hawaii, January 2007.
- “A Simulation Model to Evaluate Decision Rules for Lock Operations on the Upper Mississippi River”, Hawaii International Conference on System Sciences (HICSS-40), Waikoloa, Hawaii, January 2007.
- “Modeling Revenues for Expedited Freight Services”, Western Decisions Sciences Institute Meeting, Waikoloa, Hawaii, April 2006.
- “Geographic Information Systems for Tracking Vessels on the Inland Waterways”, NETS (Navigation Economic Technologies) Symposium, Salt Lake City, Utah, January 13, 2006.
- “The Network of Logistics Decisions”, INFORMS National Meeting, San Francisco, California, November, 2005.
- “Teaching with Commercial Logistics and Supply Chain Software”, Thirty-Fourth Annual Supply Chain Management Educators Conference, San Diego, California, October 23, 2005.
- “Geographic Information Systems for Tracking Vessels on the Inland Waterways” and “Vessel Tracking Prototype for the UMR”, Final study conference for project “Geographic Information Systems for Tracking Vessels on the Inland Waterways”, Center for Transportation Studies, University of Missouri – St. Louis, St. Louis, Missouri, June 15, 2005.
- “The Network of Logistics Decisions”, International Colloquium for the 25th Anniversary of GERAD, Montreal, Canada, May11-13, 2005.
- “Strategic Design of Hub Networks for Trucking”, International Colloquium for the 25th Anniversary of GERAD, Montreal, Canada, May11-13, 2005.
- “Panel on Challenges and Future Trends of OR Methods in Logistics”, International Colloquium for the 25th Anniversary of GERAD, Montreal, Canada, May11-13, 2005.
- “Hub Location and Network Design for Trucking”, Tippie Transportation Seminar Series, University of Iowa, Iowa City, IA, April 2005.
- “Strategic Network Design for Time Definite Trucking”, TRISTAN V (Triennial Symposium on Transportation Analysis), Le Gosier, Guadeloupe, June 2004.
- “Hub Location and Network Design for Time Definite Trucking”, CORS/INFORMS International Meeting, Banff, Canada, May 2004.
- “Models for Managing Effective Rates for Time Definite Trucking”, CORS/INFORMS International Meeting, Banff, Canada, May 2004.
- “Strategic Analyses for Trucking: Evaluating Acquisitions and Simplified Rates”, GERAD, Montreal, Canada, March, 2003.

- “Hub Arc Location Problems”, ISOLDE IX, St. Andrews, New Brunswick, Canada, June, 2002.
- “Hub Arc Location Problems,” INFORMS International Meeting, Kahului, Hawaii, July 2001.
- “Solving Hub Arc Location Problems”, INFORMS National Meeting, San Antonio, Texas, November 2000.
- “Snowfighting with Operations Research”, CSIRO Operations Research Group, Melbourne, Australia, April 4, 2000; School of Mathematics Seminar, University of South Australia, Adelaide, Australia, April 14, 2000.
- “New Models for Hub Location and Network Design”, Centre in Statistical Science and Industrial Mathematics, Queensland University of Technology, March 1, 2000; School of Mathematics Seminar, University of South Australia, April 14, 2000; Australian Society for Operations Research, Melbourne Chapter, April 19, 2000.

GRANTS

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|---|---------|
| U.S. DEPARTMENT OF TRANSPORTATION USDOT/OST-R AND MIDWEST
TRANSPORTATION CENTER, UMSL, CONTRACT DTRT13-G-UTC37 | 2016-17 |
| “Strategic Design for Delivery with Linked Transportation Assets: Trucks and Drones”,
Investigators: J.F. Campbell, D. Sweeney (\$50,000) | |
| RESEARCH GRANTS COUNCIL OF HONG KONG | 2013 |
| “Sustainable Supply Chain with Stochastic Demands”, Investigators: C.K. Chan, PI
(Hong Kong Polytechnic University), J.F. Campbell, A. Langevin, E. Lee (HK\$600,000) | |
| U.S. DEPARTMENT OF TRANSPORTATION | 2013 |
| “UMSL - S&T collaboration: Analysis of Carbon Emission Regulations in Supply
Chains with Volatile Demand” (\$9,483) | |
| INTERDISCIPLINARY INTERCAMPUS RESEARCH PROGRAM, UNIVERSITY OF
MISSOURI | 2013 |
| “Analysis of Carbon Emission Regulations in Supply Chains with Volatile Demand”,
Investigators: D. Konur (Missouri S&T) and J.F. Campbell (\$47,061) | |
| UNIVERSITY OF MISSOURI RESEARCH BOARD | 2011 |
| “Optimizing School Bus Routing in Missouri” (\$14,076) | |
| RESEARCH GRANTS COUNCIL OF HONG KONG | 2011 |
| “Vendor-buyer Coordination Strategies for the Design of Efficient and Sustainable Supply Chains”,
Investigators: C.K. Chan, PI (Hong Kong Polytechnic University), J.F. Campbell, A. Langevin) | |
| L3 GSI, INC. FOR U.S. AIR MOBILITY COMMAND AT SCOTT AIR FORCE BASE | 2007 |
| “Tanker Deployment Planning for Aerial Refueling” (\$66,491.25) | |

U.S. GEOLOGICAL SURVEY (U.S. ARMY CORPS OF ENGINEERS) “Geographic Information Systems for Tracking Vessels on the Inland Waterways” (\$139,922)	2004–2005
UM-ST. LOUIS RESEARCH AWARD “Network Design for Time Definite Trucking”	2004
UNIVERSITY OF ALABAMA GREATER CITIES UNIVERSITIES TRANSPORTATION INITIATIVE PROGRAM Theme 5a – Technology Transfer from Private to Public Transportation Providers	2001-2002
UM-ST. LOUIS RESEARCH AWARD “Improved Models of Hub Location and Network Design”	2000
NSERCC (NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA) “Processus décisionnels génériques et systèmes intégrés d'aide à la decision en logistique” (joint proposal with eight co-investigators)	1996–1998
CITY OF ST. LOUIS “Preparation of a Multi-Year Strategic Plan for Municipal Information Systems” (Co-investigator with L.D. Smith, PI)	1995
QUEBEC STUDIES GRANT PROGRAM “Decision Support for Snow Disposal in Montreal”	1993
WELDON SPRING FUND, UNIVERSITY OF MISSOURI “Large Truck Restrictions and Urban Traffic Congestion: Analytical Models”	1991–1992
UM-ST. LOUIS SUMMER RESEARCH FELLOWSHIP “Facility Location in Zones Containing High Speed Roadways”	1990
PATTONVILLE SCHOOL DISTRICT, MISSOURI “Impact of the Proposed Expansion of Lambert Airport upon Instructional and Finances of the Pattonville School District”	1989-1990 Processes

CONTRACT RESEARCH

CLIF BAR INC. 2005 Network Analysis and Warehouse Location Study	
FORWARD AIR CORP. Pricing Analysis and Freight Rate Modeling for Expedited Trucking	2000-2003

PROGRAM DEVELOPMENT

Led the reorganization and rebranding of the department to Supply Chain & Analytics, including creation of a departmental Advisory Board	2015-2018
2013 Logistics Doctoral Consortium, University of Arkansas, Fayetteville, AR, Roundtable participant	2013
Logistics & Supply Chain Management Ph.D. Committee Chair 2010-2011	2006-2011
Led efforts to establish the Ph.D. emphasis in Logistics & Supply Chain Management	2004-2006
Coordinated efforts and played a major role to establish the Graduate Certificate and MBA emphasis in Logistics & Supply Chain Management	2000-2002
Led efforts to establish the Ph.D. in Business Administration with an emphasis in Information System as MSIS Area Coordinator	1998-1999

SERVICE ACTIVITIES

Associate Editor, *Transportation Science*, 2011 – present
 Associate Editor, *Transportation Research – Part B: Methodological*, 2015 – present
 Associate Editor, *OMEGA - The International Journal of Management Science*, 2009 – present
 Editorial Advisory Board, *International Journal of Revenue Management*, 2007 – present
 Editorial Review Board, *Journal of Business Logistics*, 2010 – present
 Editorial Advisory Board, *Transportation Research – Part B: Methodological*, 1999 – 2015.

Guest Editor, *Networks* special issue on “Drone Delivery Systems” (Campbell, J.F. and Agatz, N.), to appear, 2018.
 Guest Editor, *Computers & Operations Research* special section on “New Advances in Hub Location” (Campbell, J.F. and Alumur., S.A.), to appear, 2018.
 Guest Editor, *International Journal of Revenue Management* special issue on “New Perspectives on Revenue Management in Transportation Services” (Smith, L.D. and Campbell, J.F.) Vol. 6, Nos. 1-2, 2012.
 Guest Editor, *Location Science* special issue on hub facility location, Vol. 4, No. 3, 1996.
 Editor, *Proceedings of the 26th Annual Meeting of the Midwest Decision Sciences Institute*, May 1995.
 “UPS-SOLA Dissertation Award” committee member, 2005, 2007 (INFORMS Section on Location Analysis biennial dissertation award)
 Aeronautics and Surface Transportation Subgroup member, St. Louis Task Force on Critical Technologies, 1993.
 Program Committee member - TIMS College on Location Analysis, 1991-92.

Other reviews:

National Science Foundation (NSF), USA
 Natural Sciences & Engineering Research Council of Canada (NSERC)
 Research Grants Council of Hong Kong

Israel Science Foundation
 CSIRO (Commonwealth Scientific & Industrial Research Organization), Mathematical and
 Information Sciences, Australia
 Australian Department of Education, Science and Training
 The Research Council of Norway
 Sultan Qaboos University, Sultanate of Oman
 Publishers: Prentice Hall, John Wiley & Sons, McGraw Hill

Dissertation/Thesis Committees

Juan Zhang, Ph.D. Candidate, University of Missouri – St. Louis, 2015-18. (Dissertation Committee chair)
 Deng Pan, Ph.D. Candidate, University of Missouri – St. Louis, 2015-18. (Dissertation Committee chair)
 Dorothy (Liu) Yang, Ph.D. University of Missouri – St. Louis, 2013-16. (now with Purdue University)
 Aldis Jakubovskis, Ph.D. University of Missouri – St. Louis, 2013-15. (now with University of Missouri)
 William A. Ellegood, Ph.D. University of Missouri – St. Louis, 2013-14. (Dissertation Committee co-chair; now with Sam Houston State University)
 Brian Schaefer, Ph.D., Missouri University of Science & Technology (Engineering Management Department), Rolla, MO, 2013-2014. (now with Llamasoft)
 Jiang Yuan, M.Phil., Hong Kong Polytechnic University, Hong Kong, 2008.
 Jamie Ebery, Ph.D., Monash University, Melbourne, Australia, 2000.
 Sandra Arango, Ph.D., University of Missouri – St. Louis, 1999.
 Jacquelline Goerck, Ph.D., University of Missouri – St. Louis, 1996.
 Alain Labelle, M.S., Ecole Polytechnique de Montreal, Montreal, Canada, 1995.

Conference Responsibilities

Scientific Committee, ISOLDE XIV, International Symposium on Locational Decisions), Toronto, CA, July 2017.
 Scientific Committee, EWGLA XXIII (European Working Group on Location Analysis), Malaga, Spain, September, 2016.
 International Advisory Board, 3rd International Workshop on Successful Strategies in Supply Chain Management, Hong Kong, January 6-8, 2016.
 International Workshop Committee, 9th workshop on Workshop on Logistics and Supply Chain Management, Berkeley, California, October 5-7, 2015.
 International Workshop Committee, 8th workshop on Workshop on Logistics and Supply Chain Management, Berkeley, California, October 3-4, 2013.
 Stream Organizer (with S. Alumur and I. Contreras), XXVI EURO - INFORMS Joint International Conference, Rome, Italy, July 2013.
 Scientific Committee, EWGLA XX (European Working Group on Location Analysis), Ankara, Turkey, April, 2013.
 Scientific Committee, ISOLDE XII (International Symposium on Locational Decisions), Japan, July 2012.
 Track Organizer (with I. Contreras), 25th European Conference on Operational Research (EURO XXV), Vilnius, Lithuania, July 2012.

International Workshop Committee, 7th workshop on Workshop on Logistics and Supply Chain Management, Berkeley, California, October 4, 2011.

Scientific Committee, EWGLA XIX (European Working group on Location Analysis), Nantes, France, October 12, 2011.

International Advisory Board, 2nd International Workshop on Successful Strategies in Supply Chain Management, Hong Kong, January 7-9, 2009

Program Co-chair - IFORS specialized international conference on Operations Research and Engineering Design, St. Louis, Missouri, October 24-27, 1995.