

Antonio Páez

PROFESSOR

School of Earth, Environment and Society, McMaster University, 1280 Main St West, Hamilton, Ontario, Canada L8S 1S4

+1 905 525 9140 | paezha@mcmaster.ca | experts.mcmaster.ca/display/paezha | 0000-0001-6912-9919 | 2897251 | paezha | paezha

About me

- I trained in civil engineering before being adopted into geography.
- My areas of interest are spatial analysis, spatial statistics, transportation, travel behavior, cities.
- At this rate my only hope of being recognized is as most promising oldest researcher in my discipline.

Education

Tohoku University

PHD Sendai, Japan

1997-2000

- Thesis Title: Applied Statistical Analysis of Geographically Detailed Data with Emphasis on Spatial Effects

Tohoku University

M.Sc. Sendai, Japan

1995-1997

- Thesis Title: Evaluation of Environmental Changes Caused by Urbanization

Instituto Tecnológico y de Estudios Superiores de Monterrey

B.ENG. Monterrey, Mexico

1989-1993

Academic Employment

School of Earth, Society and Environment, McMaster University

PROFESSOR Hamilton, Canada

July 2014-present

School of Earth, Environment and Society, McMaster University

ASSOCIATE PROFESSOR Hamilton, Canada

July 2007-June 2014

School of Geography and Earth Sciences, McMaster University

ASSISTANT PROFESSOR Hamilton, Canada

July 2002-June 2007

Center for Northeast Asian Studies, Tohoku University

RESEARCH FELLOW-LECTURER Sendai, Japan

October 2000-March 2002

Dept. of Civil Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey

INSTRUCTOR-TOPOGRAPHICAL SURVEY LABORATORY Monterrey, Mexico

January 1993-December 1993

Employment in Industry

Peer-Reviewed Journal Articles

1. Whalen, K., & Paez, A. (2021). Student perceptions of reflection and the acquisition of higher-order thinking skills in a university sustainability course [Journal Article]. *Journal of Geography in Higher Education*, 45(1), 108-127. <https://doi.org/10.1080/03098265.2020.1804843>
2. Pereira, R. H. M., Braga, C. K. V., Servo, L. M., Serra, B., Amaral, P., Gouveia, N., & Paez, A. (2021). Geographic access to COVID-19 healthcare in Brazil using a balanced float catchment area approach [Journal Article]. *Social Science & Medicine*, 273. <https://doi.org/10.1016/j.socscimed.2021.113773>
3. Paez, A., Lopez, F. A., Menezes, T., Cavalcanti, R., & Rocha Pitta, M. G. da. (2021). A spatio-temporal analysis of the environmental correlates of COVID-19 incidence in Spain [Journal Article]. *Geographical Analysis*, 53(3), 397-421. <https://doi.org/10.1111/gean.12241>
4. Paez, A. (2021). Open spatial sciences: An introduction [Journal Article]. *Journal of Geographical Systems*, 23(4), 467-476. <https://doi.org/10.1007/s10109-021-00364-4>
5. Paez, A. (2021). Reproducibility of research during COVID-19: Examining the case of population density and the basic reproductive rate from the perspective of spatial analysis [Journal Article]. *Geographical Analysis*. <https://doi.org/10.1111/gean.12307>

6. Lira, B. M., & Paez, A. (2021). Do drivers dream of walking? An investigation of travel mode dissonance from the perspective of affective values [Journal Article]. *Journal of Transport & Health*, 20. <https://doi.org/10.1016/j.jth.2021.101015>
7. Higgins, C. D., Paez, A., Kim, G., & Wang, J. (2021). Changes in accessibility to emergency and community food services during COVID-19 and implications for low income populations in hamilton, ontario [Journal Article]. *Social Science & Medicine*, 291. <https://doi.org/10.1016/j.socscimed.2021.114442>
8. Eldeeb, G., Mohamed, M., & Paez, A. (2021). Built for active travel? Investigating the contextual effects of the built environment on transportation mode choice [Journal Article]. *Journal of Transport Geography*, 96. <https://doi.org/10.1016/j.jtrangeo.2021.103158>
9. Doulabi, S., Hassan, H. M., Ferguson, M. R., Razavi, S., & Paez, A. (2021). Exploring the determinants of older adults' susceptibility to pedestrians' incidents [Journal Article]. *Accident Analysis and Prevention*, 155. <https://doi.org/10.1016/j.aap.2021.106100>
10. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Paez, A. (2021). Correlates of bicycling trip flows in hamilton, ontario: Fastest, quietest, or balanced routes? [Journal Article]. *Transportation*. <https://doi.org/10.1007/s11116-021-10197-1>
11. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Paez, A. (2021). Using environmental audits and photo-journeys to compare objective attributes and bicyclists' perceptions of bicycle routes [Journal Article]. *Journal of Transport & Health*, 22. <https://doi.org/10.1016/j.jth.2021.101092>
12. Desjardins, E., Apatu, E., Razavi, S. D., Higgins, C. D., Scott, D. M., & Paez, A. (2021). "Going through a little bit of growing pains": A qualitative study of the factors that influence the route choice of regular bicyclists in a developing cycling city [Journal Article]. *Transportation Research Part F-Traffic Psychology and Behaviour*, 81, 431–444. <https://doi.org/10.1016/j.trf.2021.06.005>
13. Victoriano, R., Paez, A., & Carrasco, J.-A. (2020). Time, space, money, and social interaction: Using machine learning to classify people's mobility strategies through four key dimensions [Journal Article]. *Travel Behaviour and Society*, 20, 1–11. <https://doi.org/10.1016/j.tbs.2020.02.004>
14. Sarlas, G., Paez, A., & Axhausen, K. W. (2020). Betweenness-accessibility: Estimating impacts of accessibility on networks [Journal Article]. *Journal of Transport Geography*, 84. <https://doi.org/10.1016/j.jtrangeo.2020.102680>
15. Romero, F., Gomez, J., Paez, A., & Manuel Vassallo, J. (2020). Toll roads vs. Public transportation: A study on the acceptance of congestion-calming measures in madrid [Journal Article]. *Transportation Research Part a-Policy and Practice*, 142, 319–342. <https://doi.org/10.1016/j.tra.2020.11.001>
16. Paez, A., Hassan, H., Ferguson, M., & Razavi, S. (2020). A systematic assessment of the use of opponent variables, data subsetting and hierarchical specification in two-party crash severity analysis [Journal Article]. *Accident Analysis and Prevention*, 144. <https://doi.org/10.1016/j.aap.2020.105666>
17. Paez, A., Anjum, Z., Dickson-Anderson, S. E., Schuster-Wallace, C. J., Martin Ramos, B., & Higgins, C. D. (2020). Comparing distance, time, and metabolic energy cost functions for walking accessibility in infrastructure-poor regions [Journal Article]. *Journal of Transport Geography*, 82. <https://doi.org/10.1016/j.jtrangeo.2019.102564>
18. Jamal, S., Mohiuddin, H., & Paez, A. (2020). How do the perceptions of neighborhood conditions impact active transportation? A study in rajshahi, bangladesh [Journal Article]. *Transportation Research Part D-Transport and Environment*, 87. <https://doi.org/10.1016/j.trd.2020.102525>
19. He, L., Paez, A., Jiao, J., An, P., Lu, C., Mao, W., & Long, D. (2020). Ambient population and larceny-theft: A spatial analysis using mobile phone data [Journal Article]. *Isprs International Journal of Geo-Information*, 9(6). <https://doi.org/10.3390/ijgi9060342>
20. Cupido, K., Jevtic, P., & Paez, A. (2020). Spatial patterns of mortality in the united states: A spatial filtering approach [Journal Article]. *Insurance Mathematics & Economics*, 95, 28–38. <https://doi.org/10.1016/j.insmatheco.2020.08.003>
21. Whelan, K., & Paez, A. (2019). Development of a new framework to guide, assess, and evaluate student reflections in a university sustainability course [Journal Article]. *Teaching & Learning Inquiry-the Issotl Journal*, 7(1), 55–77. <https://doi.org/10.20343/teachlearninqu.7.1.5>

22. Paez, A., Lopez, F., Ruiz, M., & Camacho, M. (2019). Inducing non-orthogonal and non-linear decision boundaries in decision trees via interactive basis functions [Journal Article]. *Expert Systems with Applications*, 122, 183–206. <https://doi.org/10.1016/j.eswa.2018.12.041>
23. Paez, A., Higgins, C. D., & Vivona, S. F. (2019). Demand and level of service inflation in floating catchment area (FCA) methods [Journal Article]. *Plos One*, 14(6). <https://doi.org/10.1371/journal.pone.0218773>
24. Paez, A. (2019). Using spatial filters and exploratory data analysis to enhance regression models of spatial data [Journal Article]. *Geographical Analysis*, 51(3), 314–338. <https://doi.org/10.1111/gean.12180>
25. Martin, B., & Paez, A. (2019). Individual and geographic variations in the propensity to travel by active modes in vitoria-gasteiz, spain [Journal Article]. *Journal of Transport Geography*, 76, 103–113. <https://doi.org/10.1016/j.jtrangeo.2019.03.005>
26. Arranz-Lopez, A., Soria-Lara, J. A., Witlox, F., & Paez, A. (2019). Measuring relative non-motorized accessibility to retail activities [Journal Article]. *International Journal of Sustainable Transportation*, 13(9), 639–651. <https://doi.org/10.1080/15568318.2018.1498563>
27. Lopez, F. A., Paez, A., Carrasco, J. A., & Ruminot, N. A. (2017). Vulnerability of nodes under controlled network topology and flow autocorrelation conditions [Journal Article]. *Journal of Transport Geography*, 59, 77–87. <https://doi.org/10.1016/j.jtrangeo.2017.02.002>
28. Lopez, F. A., & Paez, A. (2017). Spatial clustering of high-tech manufacturing and knowledge-intensive service firms in the greater toronto area [Journal Article]. *Canadian Geographer-Geographe Canadien*, 61(2), 240–252. <https://doi.org/10.1111/cag.12326>
29. He, L., Paez, A., & Liu, D. (2017). Built environment and violent crime: An environmental audit approach using google street view [Journal Article]. *Computers Environment and Urban Systems*, 66, 83–95. <https://doi.org/10.1016/j.compenvurbsys.2017.08.001>
30. He, L., Paez, A., & Liu, D. (2017). Persistence of crime hot spots: An ordered probit analysis [Journal Article]. *Geographical Analysis*, 49(1), 3–22. <https://doi.org/10.1111/gean.12107>
31. Rojas, C., Paez, A., Barbosa, O., & Carrasco, J. (2016). Accessibility to urban green spaces in chilean cities using adaptive thresholds [Journal Article]. *Journal of Transport Geography*, 57, 227–240. <https://doi.org/10.1016/j.jtrangeo.2016.10.012>
32. Moniruzzaman, M., & Paez, A. (2016). An investigation of the attributes of walkable environments from the perspective of seniors in montreal [Journal Article]. *Journal of Transport Geography*, 51, 85–96. <https://doi.org/10.1016/j.jtrangeo.2015.12.001>
33. Lopez, F. A., Matilla-Garcia, M., Mur, J., Paez, A., & Ruiz, M. (2016). A note on the SG(m) test [Journal Article]. *Journal of Geographical Systems*, 18(1), 87–96. <https://doi.org/10.1007/s10109-015-0221-7>
34. Roofigari-Esfahan, N., Paez, A., & Razavi, S. N. (2015). Location-aware scheduling and control of linear projects: Introducing space-time float prisms [Journal Article]. *Journal of Construction Engineering and Management*, 141(1). [https://doi.org/10.1061/\(asce\)co.1943-7862.0000916](https://doi.org/10.1061/(asce)co.1943-7862.0000916)
35. Neto, R. S., Duarte, G., & Paez, A. (2015). Gender and commuting time in sao paulo metropolitan region [Journal Article]. *Urban Studies*, 52(2), 298–313. <https://doi.org/10.1177/0042098014528392>
36. Moniruzzaman, M., Paez, A., Scott, D., & Morency, C. (2015). Trip generation of seniors and the geography of walking in montreal [Journal Article]. *Environment and Planning a-Economy and Space*, 47(4), 957–976. <https://doi.org/10.1068/a130070p>
37. Moniruzzaman, M., Chudyk, A., Paez, A., Winters, M., Sims-Gould, J., & McKay, H. (2015). Travel behavior of low income older adults and implementation of an accessibility calculator [Journal Article]. *Journal of Transport & Health*, 2(2), 257–268. <https://doi.org/10.1016/j.jth.2015.02.006>
38. He, L., Paez, A., Liu, D., & Jiang, S. (2015). Temporal stability of model parameters in crime rate analysis: An empirical examination [Journal Article]. *Applied Geography*, 58, 141–152. <https://doi.org/10.1016/j.apgeog.2015.02.002>
39. Goetzke, F., Gerike, R., Paez, A., & Dugundji, E. (2015). Social interactions in transportation: Analyzing groups and spatial networks [Journal Article]. *Transportation*, 42(5), 723–731. <https://doi.org/10.1007/s11116-015-9643-9>

40. Farber, S., Ruiz Marin, M., & Paez, A. (2015). Testing for spatial independence using similarity relations [Journal Article]. *Geographical Analysis*, 47(2), 97–120. <https://doi.org/10.1111/gean.12044>
41. Wheeler, D. C., Paez, A., Spinney, J., & Waller, L. A. (2014). A bayesian approach to hedonic price analysis [Journal Article]. *Papers in Regional Science*, 93(3), 663–683. <https://doi.org/10.1111/pirs.12003>
42. Reyes, M., Paez, A., & Morency, C. (2014). Walking accessibility to urban parks by children: A case study of montreal [Journal Article]. *Landscape and Urban Planning*, 125, 38–47. <https://doi.org/10.1016/j.landurbplan.2014.02.002>
43. Poulou, T., Elliott, S. J., Paez, A., & Newbold, K. B. (2014). Building obesity in canada: Understanding the individual-and neighbourhood-level determinants using a multi-level approach [Journal Article]. *Geospatial Health*, 9(1), 45–55. <https://doi.org/10.4081/gh.2014.5>
44. Moniruzzaman, M., Paez, A., & Morency, C. (2014). Compliance potential mapping: A tool to assess potential contributions of walking towards physical activity guidelines [Journal Article]. *Bmc Public Health*, 14. <https://doi.org/10.1186/1471-2458-14-511>
45. Farber, S., Bartholomew, K., Li, X., Paez, A., & Habib, K. M. N. (2014). Assessing social equity in distance based transit fares using a model of travel behavior [Journal Article]. *Transportation Research Part a-Policy and Practice*, 67, 291–303. <https://doi.org/10.1016/j.tra.2014.07.013>
46. Whalen, K. E., Paez, A., & Carrasco, J. A. (2013). Mode choice of university students commuting to school and the role of active travel [Journal Article]. *Journal of Transport Geography*, 31, 132–142. <https://doi.org/10.1016/j.jtrangeo.2013.06.008>
47. Scott, D. M., Dugundji, E. R., & Paez, A. (2013). The social dimension of activity, travel and location choice behavior [Journal Article]. *Journal of Transport Geography*, 31, 212–215. <https://doi.org/10.1016/j.jtrangeo.2013.06.009>
48. Paez, A., Moniruzzaman, M., Bourbonnais, P.-L., & Morency, C. (2013). Developing a web-based accessibility calculator prototype for the greater montreal area [Journal Article]. *Transportation Research Part a-Policy and Practice*, 58, 103–115. <https://doi.org/10.1016/j.tra.2013.10.020>
49. Paez, A., Lopez, F. A., Ruiz, M., & Morency, C. (2013). Development of an indicator to assess the spatial fit of discrete choice models [Journal Article]. *Transportation Research Part B-Methodological*, 56, 217–233. <https://doi.org/10.1016/j.trb.2013.08.009>
50. Paez, A., Farber, S., Mercado, R., Roorda, M., & Morency, C. (2013). Jobs and the single parent: An analysis of accessibility to employment in toronto [Journal Article]. *Urban Geography*, 34(6), 815–842. <https://doi.org/10.1080/02723638.2013.778600>
51. Paez, A., Esita, J., Newbold, K. B., Heddle, N. M., & Blake, J. T. (2013). Exploring resource allocation and alternate clinic accessibility landscapes for improved blood donor turnout [Journal Article]. *Applied Geography*, 45, 89–97. <https://doi.org/10.1016/j.apgeog.2013.08.008>
52. Paez, A. (2013). Mapping travelers' attitudes: Does space matter? [Journal Article]. *Journal of Transport Geography*, 26, 117–125. <https://doi.org/10.1016/j.jtrangeo.2012.09.002>
53. Moniruzzaman, M., Paez, A., Habib, K. M. N., & Morency, C. (2013). Mode use and trip length of seniors in montreal [Journal Article]. *Journal of Transport Geography*, 30, 89–99. <https://doi.org/10.1016/j.jtrangeo.2013.03.007>
54. Le Gallo, J., & Paez, A. (2013). Using synthetic variables in instrumental variable estimation of spatial series models [Journal Article]. *Environment and Planning a-Economy and Space*, 45(9), 2227–2242. <https://doi.org/10.1068/a45443>
55. Lavery, T. A., Paez, A., & Kanaroglou, P. S. (2013). Driving out of choices: An investigation of transport modality in a university sample [Journal Article]. *Transportation Research Part a-Policy and Practice*, 57, 37–46. <https://doi.org/10.1016/j.tra.2013.09.010>
56. Whalen, K. E., Paez, A., Bhat, C., Moniruzzaman, M., & Paleti, R. (2012). T-communities and sense of community in a university town: Evidence from a student sample using a spatial ordered-response model [Journal Article]. *Urban Studies*, 49(6), 1357–1376. <https://doi.org/10.1177/0042098011411942>
57. Scott, D. M., Dam, I., Paez, A., & Wilton, R. D. (2012). Investigating the effects of social influence on the choice to telework [Journal Article]. *Environment and Planning A*, 44(5), 1016–1031. <https://doi.org/10.1068/a43223>

58. Ruiz, M., Lopez, F., & Paez, A. (2012). Comparison of thematic maps using symbolic entropy [Journal Article]. *International Journal of Geographical Information Science*, 26(3), 413–439. <https://doi.org/10.1080/13658816.2011.586327>
59. Paez, A., Trepanier, M., & Morency, C. (2012). Modeling isoexposure to transit users for market potential analysis [Journal Article]. *Transportation Research Part a-Policy and Practice*, 46(10), 1517–1527. <https://doi.org/10.1016/j.tra.2012.07.004>
60. Paez, A., Scott, D. M., & Morency, C. (2012). Measuring accessibility: Positive and normative implementations of various accessibility indicators [Journal Article]. *Journal of Transport Geography*, 25, 141–153. <https://doi.org/10.1016/j.jtrangeo.2012.03.016>
61. Paez, A., Ruiz, M., Lopez, F., & Logan, J. (2012). Measuring ethnic clustering and exposure with the q statistic: An exploratory analysis of irish, germans, and yankees in 1880 newark [Journal Article]. *Annals of the Association of American Geographers*, 102(1), 84–102. <https://doi.org/10.1080/00045608.2011.620502>
62. Paez, A., & Farber, S. (2012). Participation and desire: Leisure activities among canadian adults with disabilities [Journal Article]. *Transportation*, 39(6), 1055–1078. <https://doi.org/10.1007/s11116-012-9385-x>
63. Moniruzzaman, M., & Paez, A. (2012). Accessibility to transit, by transit, and mode share: Application of a logistic model with spatial filters [Journal Article]. *Journal of Transport Geography*, 24, 198–205. <https://doi.org/10.1016/j.jtrangeo.2012.02.006>
64. Moniruzzaman, M., & Paez, A. (2012). A model-based approach to select case sites for walkability audits [Journal Article]. *Health & Place*, 18(6), 1323–1334. <https://doi.org/10.1016/j.healthplace.2012.09.013>
65. Mercado, R. G., Paez, A., Farber, S., Roorda, M. J., & Morency, C. (2012). Explaining transport mode use of low-income persons for journey to work in urban areas: A case study of ontario and quebec [Journal Article]. *Transportmetrica*, 8(3), 157–179. <https://doi.org/10.1080/18128602.2010.539413>
66. Mejia-Dorantes, L., Paez, A., & Manuel Vassallo, J. (2012). Transportation infrastructure impacts on firm location: The effect of a new metro line in the suburbs of madrid [Journal Article]. *Journal of Transport Geography*, 22, 236–250. <https://doi.org/10.1016/j.jtrangeo.2011.09.006>
67. Farber, S., Paez, A., & Morency, C. (2012). Activity spaces and the measurement of clustering and exposure: A case study of linguistic groups in montreal [Journal Article]. *Environment and Planning a-Economy and Space*, 44(2), 315–332. <https://doi.org/10.1068/a44203>
68. Dugundji, E., Scott, D. M., Carrasco, J. A., & Paez, A. (2012). Urban mobility and social-spatial contact-introduction [Journal Article]. *Environment and Planning a-Economy and Space*, 44(5), 1011–1015. <https://doi.org/10.1068/a45183>
69. Drackley, A., Newbold, K. B., Paez, A., & Heddle, N. (2012). Forecasting ontario's blood supply and demand [Journal Article]. *Transfusion*, 52(2), 366–374. <https://doi.org/10.1111/j.1537-2995.2011.03280.x>
70. Cimaroli, K., Paez, A., Newbold, K. B., & Heddle, N. M. (2012). Individual and contextual determinants of blood donation frequency with a focus on clinic accessibility: A case study of toronto, canada [Journal Article]. *Health & Place*, 18(2), 424–433. <https://doi.org/10.1016/j.healthplace.2011.12.005>
71. Barufi, A. M., Haddad, E., & Paez, A. (2012). Infant mortality in brazil, 1980-2000: A spatial panel data analysis [Journal Article]. *Bmc Public Health*, 12. <https://doi.org/10.1186/1471-2458-12-181>
72. Wilton, R. D., Paez, A., & Scott, D. M. (2011). Why do you care what other people think? A qualitative investigation of social influence and telecommuting [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(4), 269–282. <https://doi.org/10.1016/j.tra.2011.01.002>
73. Schettini, D., Azzoni, C. R., & Paez, A. (2011). Neighborhood and efficiency in manufacturing in brazilian regions: A spatial markov chain analysis [Journal Article]. *International Regional Science Review*, 34(4), 397–418. <https://doi.org/10.1177/0160017611403141>
74. Paez, A., Trepanier, M., & Morency, C. (2011). Geodemographic analysis and the identification of potential business partnerships enabled by transit smart cards [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(7), 640–652. <https://doi.org/10.1016/j.tra.2011.04.002>

75. Paez, A., Farber, S., & Wheeler, D. (2011). A simulation-based study of geographically weighted regression as a method for investigating spatially varying relationships [Journal Article]. *Environment and Planning a-Economy and Space*, 43(12), 2992–3010. <https://doi.org/10.1068/a44111>
76. Morency, C., Paez, A., Roorda, M. J., Mercado, R., & Farber, S. (2011). Distance traveled in three canadian cities: Spatial analysis from the perspective of vulnerable population segments [Journal Article]. *Journal of Transport Geography*, 19(1), 39–50. <https://doi.org/10.1016/j.jtrangeo.2009.09.013>
77. Mejia Dorantes, L., Paez, A., & Manuel Vassallo, J. (2011). Analysis of house prices to assess economic impacts of new public transport infrastructure madrid metro line 12 [Journal Article]. *Transportation Research Record*, 2245, 131–139. <https://doi.org/10.3141/2245-16>
78. Farber, S., Paez, A., Mercado, R. G., Roorda, M., & Morency, C. (2011). A time-use investigation of shopping participation in three canadian cities: Is there evidence of social exclusion? [Journal Article]. *Transportation*, 38(1), 17–44. <https://doi.org/10.1007/s11116-010-9282-0>
79. Farber, S., & Paez, A. (2011). Running to stay in place: The time-use implications of automobile oriented land-use and travel [Journal Article]. *Journal of Transport Geography*, 19(4), 782–793. <https://doi.org/10.1016/j.jtrangeo.2010.09.008>
80. Dugundji, E. R., Paez, A., Arentze, T. A., Walker, J. L., Carrasco, J. A., Marchal, F., & Nakanishi, H. (2011). Transportation and social interactions [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(4), 239–247. <https://doi.org/10.1016/j.tra.2011.01.001>
81. Schwanen, T., & Paez, A. (2010). The mobility of older people - an introduction [Journal Article]. *Journal of Transport Geography*, 18(5), 591–595. <https://doi.org/10.1016/j.jtrangeo.2010.06.001>
82. Ruiz, M., Lopez, F., & Paez, A. (2010). Testing for spatial association of qualitative data using symbolic dynamics [Journal Article]. *Journal of Geographical Systems*, 12(3), 281–309. <https://doi.org/10.1007/s10109-009-0100-1>
83. Roorda, M. J., Paez, A., Morency, C., Mercado, R., & Farber, S. (2010). Trip generation of vulnerable populations in three canadian cities: A spatial ordered probit approach [Journal Article]. *Transportation*, 37(3), 525–548. <https://doi.org/10.1007/s11116-010-9263-3>
84. Ribeiro, A., Antunes, A. P., & Paez, A. (2010). Road accessibility and cohesion in lagging regions: Empirical evidence from portugal based on spatial econometric models [Journal Article]. *Journal of Transport Geography*, 18(1), 125–132. <https://doi.org/10.1016/j.jtrangeo.2009.03.002>
85. Paez, A., & Whalen, K. (2010). Enjoyment of commute: A comparison of different transportation modes [Journal Article]. *Transportation Research Part a-Policy and Practice*, 44(7), 537–549. <https://doi.org/10.1016/j.tra.2010.04.003>
86. Paez, A., Mercado, R. G., Farber, S., Morency, C., & Roorda, M. (2010). Accessibility to health care facilities in montreal island: An application of relative accessibility indicators from the perspective of senior and non-senior residents [Journal Article]. *International Journal of Health Geographics*, 9. <https://doi.org/10.1186/1476-072x-9-52>
87. Paez, A., Mercado, R. G., Farber, S., Morency, C., & Roorda, M. (2010). Relative accessibility deprivation indicators for urban settings: Definitions and application to food deserts in montreal [Journal Article]. *Urban Studies*, 47(7), 1415–1438. <https://doi.org/10.1177/0042098009353626>
88. Mercado, R., Paez, A., & Newbold, K. B. (2010). Transport policy and the provision of mobility options in an aging society: A case study of ontario, canada [Journal Article]. *Journal of Transport Geography*, 18(5), 649–661. <https://doi.org/10.1016/j.jtrangeo.2010.03.017>
89. Farber, S., & Paez, A. (2010). Employment status and commute distance of canadians with disabilities [Journal Article]. *Transportation*, 37(6), 931–952. <https://doi.org/10.1007/s11116-010-9268-y>
90. Farber, S., & Paez, A. (2010). Spatial analysis in canada: introduction [Journal Article]. *Canadian Geographer-Geographe Canadien*, 54(1), 1–3. <https://doi.org/10.1111/j.1541-0064.2009.00298.x>
91. Scott, D. M., Newbold, K. B., Spinney, J. E. L., Mercado, R., Paez, A., & Kanaroglou, P. S. (2009). New insights into senior travel behavior: The canadian experience [Journal Article]. *Growth and Change*, 40(1), 140–168. <https://doi.org/10.1111/j.1468-2257.2008.00464.x>

92. Saberton, P. J., Paez, A., Newbold, K. B., & Heddle, N. M. (2009). Geographical variations in the correlates of blood donor turnout rates: An investigation of canadian metropolitan areas [Journal Article]. *International Journal of Health Geographics*, 8. <https://doi.org/10.1186/1476-072x-8-56>
93. Paez, A. (2009). Recent research in spatial real estate hedonic analysis [Journal Article]. *Journal of Geographical Systems*, 11(4), 311–316. <https://doi.org/10.1007/s10109-009-0103-y>
94. Paez, A. (2009). Spatial analysis of economic systems and land use change [Journal Article]. *Papers in Regional Science*, 88(2), 251–258. <https://doi.org/10.1111/j.1435-5957.2009.00246.x>
95. Montero-Lorenzo, J.-M., Larraz-Iribas, B., & Paez, A. (2009). Estimating commercial property prices: An application of cokriging with housing prices as ancillary information [Journal Article]. *Journal of Geographical Systems*, 11(4), 407–425. <https://doi.org/10.1007/s10109-009-0095-7>
96. Mercado, R., & Paez, A. (2009). Determinants of distance traveled with a focus on the elderly: A multilevel analysis in the hamilton CMA, canada [Journal Article]. *Journal of Transport Geography*, 17(1), 65–76. <https://doi.org/10.1016/j.jtrangeo.2008.04.012>
97. Maoh, H., Kanaroglou, P., Scott, D., Paez, A., & Newbold, B. (2009). IMPACT: An integrated GIS-based model for simulating the consequences of demographic changes and population ageing on transportation [Journal Article]. *Computers Environment and Urban Systems*, 33(3), 200–210. <https://doi.org/10.1016/j.compenvurbsys.2008.10.004>
98. Kanaroglou, P. S., Maoh, H. F., Newbold, B., Scott, D. M., & Paez, A. (2009). A demographic model for small area population projections: An application to the census metropolitan area of hamilton in ontario, canada [Journal Article]. *Environment and Planning A*, 41(4), 964–979. <https://doi.org/10.1068/a40172>
99. Farber, S., Paez, A., & Volz, E. (2009). Topology and dependency tests in spatial and network autoregressive models [Journal Article]. *Geographical Analysis*, 41(2), 158–180. <https://doi.org/10.1111/j.1538-4632.2009.00751.x>
100. Farber, S., & Paez, A. (2009). My car, my friends, and me: A preliminary analysis of automobility and social activity participation [Journal Article]. *Journal of Transport Geography*, 17(3), 216–225. <https://doi.org/10.1016/j.jtrangeo.2008.07.008>
101. Paez, A., Scott, D. M., & Volz, E. (2008). A discrete-choice approach to modeling social influence on individual decision making [Journal Article]. *Environment and Planning B-Planning & Design*, 35(6), 1055–1069. <https://doi.org/10.1068/b3320t>
102. Paez, A., Scott, D. M., & Volz, E. (2008). Weight matrices for social influence analysis: An investigation of measurement errors and their effect on model identification and estimation quality [Journal Article]. *Social Networks*, 30(4), 309–317. <https://doi.org/10.1016/j.socnet.2008.05.001>
103. Paez, A., Long, F., & Farber, S. (2008). Moving window approaches for hedonic price estimation: An empirical comparison of modelling techniques [Journal Article]. *Urban Studies*, 45(8), 1565–1581. <https://doi.org/10.1177/0042098008091491>
104. Kanaroglou, P., Mercado, R., Mach, H., Paez, A., Scott, D. M., & Newbold, B. (2008). Simulation framework for analysis of elderly mobility policies [Journal Article]. *Transportation Research Record*, 2078, 62–71. <https://doi.org/10.3141/2078-09>
105. Dugundji, E., Paez, A., & Arentze, T. (2008). Social networks, choices, mobility, and travel introduction [Journal Article]. *Environment and Planning B-Planning & Design*, 35(6), 956–960. <https://doi.org/10.1068/b3506ged>
106. Paez, A., Scott, D., Potoglou, D., Kanaroglou, P., & Newbold, K. B. (2007). Elderly mobility: Demographic and spatial analysis of trip making in the hamilton CMA, canada [Journal Article]. *Urban Studies*, 44(1), 123–146. <https://doi.org/10.1080/00420980601023885>
107. Paez, A., & Scott, D. M. (2007). Social influence on travel behavior: A simulation example of the decision to telecommute [Journal Article]. *Environment and Planning a-Economy and Space*, 39(3), 647–665. <https://doi.org/10.1068/a37424>
108. Paez, A. (2007). Spatial perspectives on urban systems: Developments and directions [Journal Article]. *Journal of Geographical Systems*, 9(1), 1–6. <https://doi.org/10.1007/s10109-007-0041-5>

109. Farber, S., & Paez, A. (2007). A systematic investigation of cross-validation in GWR model estimation: Empirical analysis and monte carlo simulations [Journal Article]. *Journal of Geographical Systems*, 9(4), 371–396. <https://doi.org/10.1007/s10109-007-0051-3>
110. Vichiensan, V., Paez, A., Kawai, K., & Miyamoto, K. (2006). Nonstationary spatial interpolation method for urban model development [Conference Proceedings]. *85th Annual Meeting of the Transportation-Research-Board*, 103–111.
111. Paez, A. (2006). Exploring contextual variations in land use and transport analysis using a probit model with geographical weights [Journal Article]. *Journal of Transport Geography*, 14(3), 167–176. <https://doi.org/10.1016/j.jtrangeo.2005.11.002>
112. Paez, A. (2005). Local analysis of spatial relationships: A comparison of GWR and the expansion method [Book Section]. In O. Gervasi, M. L. Gavrilova, V. Kumar, A. Lagana, H. P. Lee, Y. Mun, D. Taniar, & C. J. K. Tan (Eds.), *Computational science and its applications - iccsa 2005, pt 3* (Vol. 3482, pp. 162–172). ://WOS: 000229696900018
113. Paez, A. (2004). Anisotropic variance functions in geographically weighted regression models [Journal Article]. *Geographical Analysis*, 36(4), 299–314. <https://doi.org/10.1111/j.1538-4632.2004.tb01138.x>
114. Paez, A. (2004). Network accessibility and the spatial distribution of economic activity in eastern asia [Journal Article]. *Urban Studies*, 41(11), 2211–2230. <https://doi.org/10.1080/0042098042000268429>
115. Miyamoto, K., Vichiensan, V., Shimomura, N., & Paez, A. (2004). Discrete choice model with structuralized spatial effects for location analysis. *Transportation Research Record*, 183–190. <https://doi.org/10.3141/1898-22>
116. Paez, A., Uchida, T., & Miyamoto, K. (2002). A general framework for estimation and inference of geographically weighted regression models: 1. Location-specific kernel bandwidths and a test for locational heterogeneity [Journal Article]. *Environment and Planning A*, 34(4), 733–754. <https://doi.org/10.1068/a34110>
117. Paez, A., Uchida, T., & Miyamoto, K. (2002). A general framework for estimation and inference of geographically weighted regression models: 2. Spatial association and model specification tests [Journal Article]. *Environment and Planning a-Economy and Space*, 34(5), 883–904. <https://doi.org/10.1068/a34133>
118. Black, J. A., Paez, A., & Suthanaya, P. A. (2002). Sustainable urban transportation: Performance indicators and some analytical approaches [Journal Article]. *Journal of Urban Planning and Development*, 128(4), 184–209. [https://doi.org/10.1061/\(asce\)0733-9488\(2002\)128:4\(184\)](https://doi.org/10.1061/(asce)0733-9488(2002)128:4(184))
119. Paez, A., Uchida, T., & Miyamoto, K. (2001). Spatial association and heterogeneity issues in land price models [Journal Article]. *Urban Studies*, 38(9), 1493–1508. <https://doi.org/10.1080/00420980120076768>
120. Paez, A., Uchida, T., & Miyamoto, K. (2000). Spatial economic externalities and coordinated land use-transportation planning [Conference Proceedings]. *9th International Conference of the Cooperation-for-the-Continuing-Development-of-Urban-and-Suburban-Transportation*, 649–655.