

SPATIAL ANALYSIS ARTICLES IN 2000

This is a partial listing of Spatial Analysis related publications that appeared in 2000.

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The publications are grouped by general themes (health; environment/natural resources; social sciences; economics/urban economics; methods). Note that publications can appear multiple times depending on substantive and methodological fit.

Health

Public Health

Grubestic, T. H. (2000). Driving Donation: A Geographic Analysis of Potential Organ Donors in the State of Ohio, USA. *Social Science and Medicine*, 51(8), 1197-1210.

Jacquez, G. M. (2000). Spatial analysis in epidemiology: Nascent science or a failure of GIS? *Journal of Geographical Systems*, 2(1), 91.

Levy, S., & Amar, R. (2000). The Use of Multidimensional Partial Order Scalogram Analysis with Base Coordinates (MPOSAC) in Portraying a Partially-Ordered Typology of City Wards by Social-Medical Criteria. *BMS, Bulletin de Methodologie Sociologique*(65), 19-32, Jan 2000.

MacKian, S. (2000). Contours of Coping: Mapping the Subject World of Long-Term Illness. *Health & Place*, 6(2), 95-104.

Ristaino, J. B., & Gumpertz, M. L. (2000). New Frontiers in the Study of Dispersal and Spatial Analysis of Epidemics Caused by Species in the Genus *Phytophthora*. *Annu Rev Phytopathol*, 38, 541-576.

Wellie, O., Duhme, H., Streit, U., von Mutius, E., Keil, U., & Weiland, S. K. (2000). [Application of geographical information systems in epidemiological studies exemplified by the ISAAC study in Munich]. *Gesundheitswesen*, 62(8-9), 423-430.

Disease

Barcellos, C., & Sabroza, P. C. (2000). Socio-environmental determinants of the leptospirosis outbreak of 1996 in western Rio de Janeiro: a geographical approach. *Int J Environ Health Res*, 10(4), 301-313.

Jeanne, I. (2000). [Malaria and schistosomiasis: 2 examples using systems of geographical information and teledetection in Madagascar]. *Bull Soc Pathol Exot*, 93(3), 208-214.

Souza-Santos, R., & Carvalho, M. S. (2000). [Spatial analysis of *Aedes aegypti* larval distribution in the Ilha do Governador neighborhood of Rio de Janeiro, Brazil]. *Cad Saude Publica*, 16(1), 31-42.

Wall, P. A., & Devine, O. J. (2000). Interactive analysis of the spatial distribution of disease using a geographic information systems. *Journal of Geographical Systems*, 2(3), 243.

Wood, E., Chan, K., Montaner, J. S. G., Schechter, M. T., Tyndall, M., O'Shaughnessy, M. V. O., et al. (2000). The End of the Line: Has Rapid Transit Contributed to the Spatial Diffusion of HIV in One of Canada's Largest Metropolitan Areas? *Social Science and Medicine*, 51(5), 741-748.

Cancer

O'Brien, D. J., Kaneene, J. B., Getis, A., Lloyd, J. W., Swanson, G. M., & Leader, R. W. (2000). Spatial and temporal comparison of selected cancers in dogs and humans, Michigan, USA, 1964-1994. *Prev Vet Med*, 47(3), 187-204.

Rigby, J. E., & Gatrell, A. C. (2000). Spatial patterns in breast cancer incidence in north-west Lancashire. *Area*, 32(1), 71-78.

Economics/Urban

Economics/Business

Fotopoulos, G., & Louri, H. (2000). Location and survival of new entry. *Small Business Economics*, 14(4), 311-321.

Healey, R. G., & Stamp, T. R. (2000). Historical GIS as a Foundation for the Analysis of Regional Economic Growth. *Social Science History*, 24(3), 575-612.

Mehretu, A., Pigozzi, B. W., & Sommers, L. M. (2000). Concepts in Social and Spatial Marginality. *Geografiska Annaler, Series B: Human Geography*, 82B(2), 89-101.

Mennecke, B. E. (2000). Teaching spatial analysis in business: An examination of the use of geographic information systems in a decision support systems course. *The Journal of Computer Information Systems*, 40(3), 24.

Planning

Antrop, M., & Van Eetvelde, V. (2000). Holistic aspects of suburban landscapes: visual image interpretation and landscape metrics. *Landscape and Urban Planning*, 50(1-3), 43-58.

Bonnefoy, J.-L., Le Page, C., Rouchier, J., & Bousquet, F. (2000). Modelling Spatial Practices and Social Representations of Space Using Multi-Agent Systems. In J.-L. Bonnefoy, C. Le Page, J. Rouchier & F. Bousquet (Eds.), *Applications of Simulation to Social Sciences* (pp. 155-168). Oxford, UK: Hermes Science.

Heskin, A. D., Levine, N., & Garrett, M. (2000). The effects of vacancy control - A spatial-analysis of four California cities. *Journal of the American Planning Association*, 66(2), 162-176.

Siebert, L. (2000). Using GIS to Document, Visualize, and Interpret Tokyo's Spatial History. *Social Science History*, 24(3), 537-574.

Land-use / Landscape

Coppolillo, P. B. (2000). The landscape ecology of pastoral herding: Spatial analysis of land use and livestock production in East Africa. *Human Ecology*, 28(4), 527-560.

Schweik, C. M. (2000). Optimal foraging, institutions and forest change: A case from Nepal. *Environmental Monitoring and Assessment*, 62(3), 231-260.

Environment

Daniels, G. (2000). *Race, Class and Human Ecological Factors in the Spatial Distribution of Manufacturing Emissions*. Unpublished Dissertation, Pennsylvania State U.

Stevenson, M. A., Wilesmith, J. W., Ryan, J. B., Morris, R. S., Lawson, A. B., Pfeiffer, D. U., et al. (2000). Descriptive spatial analysis of the epidemic of bovine spongiform encephalopathy in Great Britain to June 1997. *Vet Rec*, 147(14), 379-384.

Social Science

General

MacDonald, B. H., & Black, F. A. (2000). Using GIS for Spatial and Temporal Analyses in Print Culture Studies. *Social Science History*, 24(3), 505-536.

Immigration / Race-Ethnicity

Darden, J. T., & Kamel, S. M. (2000). Spatial and Socioeconomic Analysis of Latin Americans and Whites in the Toronto CMA. *Journal of Developing Societies*, 16(2), 245-270.

Fong, E., & Shibuya, K. (2000). The Spatial Separation of the Poor in Canadian Cities. *Demography*, 37(4), 449-459.

Poverty

Harris, L. E. (2000). *A Home Is More than Just a House: A Spatial Analysis of Housing for the Poor in Metropolitan America*. Unpublished Dissertation, State U New York, Albany.

Sawicki, D. S., & Moody, M. (2000). Developing transportation alternatives for welfare recipients moving to work. *Journal of the American Planning Association*, 66(3), 306-318.

Population

Aschan-Leygonie, C., Mathian, H., Sanders, L., & Makila, K. (2000). A Spatial Microsimulation of Population Dynamics in Southern France: A Model Integrating Individual Decisions and Spatial Constraints. In C. Aschan-Leygonie, H. Mathian, L. Sanders & K. Makila (Eds.), *Applications of Simulation to Social Sciences* (pp. 109-125). Oxford, UK: Hermes Science.

Gregory, I. (2000). Longitudinal Analysis of Age- and Gender-Specific Migration Patterns in England and Wales: A GIS-Based Approach. *Social Science History*, 24(3), 471-503.

Crime

Block, R. (2000). Gang Activity and Overall Levels of Crime: A New Mapping Tool for Defining Areas of Gang Activity Using Police Records. *Journal of Quantitative Criminology*, 16(3), 369-383.

Cameron, J. G. (2000). *The Social Ecology of Metropolitan and Nonmetropolitan Violent Crime: A Spatial Diffusion Model*. Unpublished Dissertation, Pennsylvania State University.

Craglia, M., Haining, R., & Wiles, P. (2000). A comparative evaluation of approaches to urban crime pattern analysis. *Urban Studies*, 37(4), 711-729.

Olligschlaeger, A. M. (2000). *Spatial Analysis of Crime Using GIS-Based Data: Weighted Spatial Adaptive Filtering and Chaotic Cellular Forecasting with Applications to Street-Level Drug Markets*. Unpublished Dissertation, Carnegie-Mellon U.

Methods/Applications

Bhat, C. R. (2000). A multi-level cross-classified model for discrete response variables. *Transportation Research Part B-Methodological*, 34(7), 567-582.

Bonnefoy, J.-L., Le Page, C., Rouchier, J., & Bousquet, F. (2000). Modelling Spatial Practices and Social Representations of Space Using Multi-Agent Systems. In J.-L. Bonnefoy, C. Le Page, J. Rouchier & F. Bousquet (Eds.), *Applications of Simulation to Social Sciences* (pp. 155-168). Oxford, UK: Hermes Science.

Boots, B. (2000). Using GIS to promote spatial analysis. *Journal of Geographical Systems*, 2(1), 17.

Brown, D. G. (2000). Image and spatial analysis software tools. *Journal of Forestry*, 98(6), 53.

Brown, L. A. (2000). The GIS/SA interface for substantive research(ers): A critical need. *Journal of Geographical Systems*, 2(1), 43.

Chakroun, H., Benie, G. B., O'Neill, N. T., & Desilets, J. (2000). Spatial analysis weighting algorithm using Voronoi diagrams. *International Journal of Geographical Information Science*, 14(4), 319-336.

Clavelli, M., & Attias, A. (2000). Social Position and Behaviour: A Formalization. *Quality and Quantity*, 34(3), 275-297.

Cressie, N., Stern, H. S., & Wright, D. R. (2000). Mapping rates associated with polygons. *Journal of Geographical Systems*, 2(1), 61.

Fotheringham, A. S. (2000). Context-dependent spatial analysis: A role for GIS? *Journal of Geographical Systems*, 2(1), 71.

Frank, A. U. (2000). Part 4 Technology and the future of GIS and spatial analysis. *Journal of Geographical Systems*, 2(1), 99.

Goodchild, M. F. (2000). Part 1 Spatial analysts and GIS practitioners. *Journal of Geographical Systems*, 2(1), 5.

Healey, R. G., & Stamp, T. R. (2000). Historical GIS as a Foundation for the Analysis of Regional Economic Growth. *Social Science History*, 24(3), 575-612.

Jacquez, G. M., Maruca, S., & Fortin, M. J. (2000). From fields to objects: A review of geographic boundary analysis. *Journal of Geographical Systems*, 2(3), 221.

Khaemba, W. M., & Stein, A. (2000). Use of GIS for a spatial and temporal analysis of Kenyan wildlife with generalised linear modelling. *International Journal of Geographical Information Science*, 14(8), 833-853.

Kwan, M.-P. (2000). Analysis of human spatial behavior in a GIS environment: Recent developments and future prospects. *Journal of Geographical Systems*, 2(1), 85.

Longley, P. (2000). Spatial analysis in the new millennium. *Annals of the Association of American Geographers*, 90(1), 157-165.

Marble, D. F. (2000). Some thoughts on the integration of spatial analysis and Geographic Information Systems. *Journal of Geographical Systems*, 2(1), 31.

Mennis, J. L., Peuquet, D. J., & Qian, L. J. (2000). A conceptual framework for incorporating cognitive principles into geographical database representation. *International Journal of Geographical Information Science*, 14(6), 501-520.

O'Kelly, M. E. (2000). GIS and educational and instructional challenges. *Journal of Geographical Systems*, 2(1), 23.

Mapping/ Cartography

MacKian, S. (2000). Contours of Coping: Mapping the Subject World of Long-Term Illness. *Health & Place*, 6(2), 95-104.

Miller, H. J. (2000). Geographic representation in spatial analysis. *Journal of Geographical Systems*, 2(1), 55.

Sanchez Crispin, A., & Lopez Lopez, A. (2000). Geographical Perspective of Gay Places in Mexico City. *Cuicuilco*, 7(18), 271-286.