

SPATIAL ANALYSIS ARTICLES IN 2001

This is a partial listing of Spatial Analysis related publications that appeared in 2001.

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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

Ali, M., Emch, M., Tofail, F., & Baqui, A. H. (2001). Implications of health care provision on acute lower respiratory infection mortality in Bangladeshi children. *Social Science & Medicine*, 52(2), 267-277.

Andrade, C. L., & Szwarcwald, C. L. (2001). [Spatial analysis of early neonatal mortality in the municipality of Rio de Janeiro, 1995-1996]. *Cad Saude Publica*, 17(5), 1199-1210.

Arnaud, J. F., Madec, L., Guiller, A., & Bellido, A. (2001). Spatial analysis of allozyme and microsatellite DNA polymorphisms in the land snail *Helix aspersa* (Gastropoda: Helicidae). *Mol Ecol*, 10(6), 1563-1576.

Camara, G., & Monteiro, A. M. (2001). Geocomputation techniques for spatial analysis: are they relevant to health data? *Cad Saude Publica*, 17(5), 1059-1071, discussion 1072-1081.

Dovey, K., Fitzgerald, J., & Choi, Y. (2001). Safety Becomes Danger: Dilemmas of Drug-Use in Public Space. *Health & Place*, 7(4), 319-331.

Kistemann, T., Dangendorf, F., & Exner, M. (2001). A geographical information system (GIS) as a tool for microbial risk assessment in catchment areas of drinking water reservoirs. *Int J Hyg Environ Health*, 203(3), 225-233.

Kistemann, T., Herbst, S., Dangendorf, F., & Exner, M. (2001). GIS-based analysis of drinking-water supply structures: a module for microbial risk assessment. *Int J Hyg Environ Health*, 203(4), 301-310.

Disease

Barcellos, C., & Sabroza, P. C. (2001). The place behind the case: leptospirosis risks and associated environmental conditions in a flood-related outbreak in Rio de Janeiro. *Cad Saude Publica*, 17 Suppl, 59-67.

Barrera, R., Torres, N., Freier, J. E., Navarro, J. C., Garcia, C. Z., Salas, R., et al. (2001). Characterization of enzootic foci of Venezuelan equine encephalitis virus in western Venezuela. *Vector Borne Zoonotic Dis*, 1(3), 219-230.

Camargo-Neves, V. L., Katz, G., Rodas, L. A., Poletto, D. W., Lage, L. C., Spinola, R. M., et al. (2001). [Use of spatial analysis tools in the epidemiological surveillance of American visceral leishmaniasis, Aracatuba, Sao Paulo, Brazil, 1998-1999]. *Cad Saude Publica*, 17(5), 1263-1267.

Guerra, M. A., Walker, E. D., & Kitron, U. (2001). Canine surveillance system for Lyme borreliosis in Wisconsin and northern Illinois: Geographic distribution and risk factor analysis. *American Journal of Tropical Medicine and Hygiene*, 65(5), 546-552.

Gyapong, J. O., & Remme, J. H. (2001). The use of grid sampling methodology for rapid assessment of the distribution of bancroftian filariasis. *Trans R Soc Trop Med Hyg*, 95(6), 681-686.

Kleinschmidt, I., Sharp, B. L., Clarke, G. P., Curtis, B., & Fraser, C. (2001). Use of generalized linear mixed models in the spatial analysis of small-area malaria incidence rates in Kwazulu Natal, South Africa. *Am J Epidemiol*, 153(12), 1213-1221.

Knorr-Held, L., & Best, N. G. (2001). A shared component model for detecting joint and selective clustering of two diseases. *Journal of the Royal Statistical Society Series a-Statistics in Society*, 164, 73-85.

Lapa, T., Ximenes, R., Silva, N. N., Souza, W., Albuquerque, M., & Campozana, G. (2001). [Leprosy surveillance in Olinda, Brazil, using spatial analysis techniques]. *Cad Saude Publica*, 17(5), 1153-1162.

Lawson, A. B. (2001). Disease map reconstruction. *Stat Med*, 20(14), 2183-2204.

Lucas, P., Fanchey, G., Mouton, C., & Jannin, J. (2001). [Monitoring human African trypanosomiasis in Central Africa in 2001 and cartography: results and perspectives]. *Med Trop (Mars)*, 61(4-5), 361-364.

Oliveira, C. D., Assuncao, R. M., Reis, I. A., & Proietti, F. A. (2001). Spatial distribution of human and canine visceral leishmaniasis in Belo Horizonte, Minas Gerais State, Brasil, 1994-1997. *Cad Saude Publica*, 17(5), 1231-1239.

Souza, W. V., Barcellos, C. C., Brito, A. M., Carvalho, M. S., Cruz, O. G., Albuquerque, M. F., et al. (2001). [Empirical bayesian model applied to the spatial analysis of leprosy occurrence]. *Rev Saude Publica*, 35(5), 474-480.

Szwarcwald, C. L., Bastos, F. I., Barcellos, C., Esteves, M. A., & Castilho, E. A. (2001). [AIDS epidemic dynamics in the municipality of Rio de Janeiro, Brazil, 1988-1996: Spatial-temporal statistic modeling]. *Cad Saude Publica*, 17(5), 1123-1140.

Economics/Urban

Economics/Business

Bowen, W. M., Mikelbank, B. A., & Prestegaard, D. M. (2001). Theoretical and empirical considerations regarding space in hedonic housing price model applications. *Growth and Change*, 32(4), 466-490.

Bronnenberg, B. J., & Mahajan, V. (2001). Unobserved retailer behavior in multimarket data: Joint spatial dependence in market shares and promotion variables. *Marketing Science*, 20(3), 284-299.

Miljkovic, D. (2001). Transporting export-bound grain by rail: Rail rates in the Post-Staggers Rail Act Period. *Transportation*, 28(3), 297-314.

Planning

Costanzo, S. D., O'Donohue, M. J., Dennison, W. C., Loneragan, N. R., & Thomas, M. (2001). A new approach for detecting and mapping sewage impacts. *Mar Pollut Bull*, 42(2), 149-156.

Hicks, J., & Niemeier, D. A. (2001). Improving the resolution of gridded-hourly mobile emissions: incorporating spatial variability and handling missing data. *Transportation Research Part D-Transport and Environment*, 6(3), 153-177.

Hill, T. R., & McConnachie, D. (2001). The role of geographical information systems in development planning in South Africa. *Third World Planning Review*, 23(3), 289-299.

Land-use / Landscape

Gobin, A., Campling, P., & Feyen, J. (2001). Spatial analysis of rural land ownership. *Landscape and Urban Planning*, 55(3), 185-194.

Hendley, P., Holmes, C., Kay, S., Maund, S. J., Travis, K. Z., & Zhang, M. (2001). Probabilistic risk assessment of cotton pyrethroids: III. A spatial analysis of the Mississippi, USA, cotton landscape. *Environ Toxicol Chem*, 20(3), 669-678.

Kok, K., & Veldkamp, A. (2001). Evaluating impact of spatial scales on land use pattern analysis in Central America. *Agriculture Ecosystems & Environment*, 85(1-3), 205-221.

Lightstone, A. S., Dhillon, P. K., Peek-Asa, C., & Kraus, J. F. (2001). A geographic analysis of motor vehicle collisions with child pedestrians in Long Beach, California: comparing intersection and midblock incident locations. *Inj Prev*, 7(2), 155-160.

Miller, D. (2001). A method for estimating changes in the visibility of land cover. *Landscape and Urban Planning*, 54(1-4), 91-104.

Store, R., & Kangas, J. (2001). Integrating spatial multi-criteria evaluation and expert knowledge for GIS-based habitat suitability modelling. *Landscape and Urban Planning*, 55(2), 79-93.

Sui, D. Z., & Zeng, H. (2001). Modeling the dynamics of landscape structure in Asia's emerging desakota regions: a case study in Shenzhen. *Landscape and Urban Planning*, 53(1-4), 37-52.

Environment

Alberto, W. D., Del Pilar, D. M., Valeria, A. M., Fabiana, P. S., Cecilia, H. A., & De Los Angeles, B. M. (2001). Pattern recognition techniques for the evaluation of spatial and temporal variations in water quality. A case study: Suquia River Basin (Cordoba-Argentina). *Water Res*, 35(12), 2881-2894.

Dezzani, R. J., & Al-Dousari, A. (2001). Spatial analysis in a Markov random field framework: The case of burning oil wells in Kuwait. *Journal of Geographical Systems*, 3(4), 387.

Ha, S. R., & Bae, M. S. (2001). Effects of land use and municipal wastewater treatment changes on stream water quality. *Environ Monit Assess*, 70(1-2), 135-151.

Kitsiou, D., & Karydis, M. (2001). Marine eutrophication: a proposed data analysis procedure for assessing spatial trends. *Environ Monit Assess*, 68(3), 297-312.

Wang, L., Lyons, J., Kanehl, P., & Bannerman, R. (2001). Impacts of urbanization on stream habitat and fish across multiple spatial scales. *Environmental Management*, 28(2), 255-266.

Wang, X. (2001). Integrating water-quality management and land-use planning in a watershed context. *J Environmental Management*, 61(1), 25-36.

Social Science

Anthropology

Dafinger, A. (2001). An anthropological case study on the relation of space, language, and social order: the Bisa of Burkina Faso. *Environment and Planning A*, 33(12), 2189-2203.

General Sociology

Wienke, I. (2001). Aerophotos As Data for Sociological Analysis. An Objective-Hermeneutical Textual Interpretation As a Contribution to the Reconstruction of Structures of Social Spaces. *Sozialersinn: Zeitschrift fur hermeneutische Sozialforschung*(1), 165-189, 2001.

Immigration / Race-Ethnicity

Pick, J. B., Viswanathan, N., & Hettrick, J. (2001). The U.S.-Mexican Borderlands Region: A Binational Spatial Analysis. *The Social Science Journal*, 38(4), 567-595.

Poverty/Work

Hammer, R. B. (2001). *The Geography of Residential and Employment Inequality: Workplace and Home Place in Urban Space*. Unpublished Dissertation, U Wisconsin, Madison.

Shen, Q. (2001). A spatial analysis of job openings and access in a US metropolitan area. *Journal of the American Planning Association*, 67(1), 53-68.

Population

Andrade, C. L., & Szwarcwald, C. L. (2001). [Spatial analysis of early neonatal mortality in the municipality of Rio de Janeiro, 1995-1996]. *Cad Saude Publica*, 17(5), 1199-1210.

Lorant, V., Thomas, I., Deliege, D., & Tonglet, R. (2001). Deprivation and Mortality: The Implications of Spatial Autocorrelation for Health Resources Allocation. *Social Science and Medicine*, 53(12), 1711-1719.

Mueller, I., Vounatsou, P., Smith, T., & Allen, B. J. (2001). Subsistence agriculture and child growth in Papua New Guinea. *Ecology of Food and Nutrition*, 40(4), 367-395.

Neto, O. L., Barros, M. B., Martelli, C. M., Silva, S. A., Cavenaghi, S. M., & Siqueira, J. B., Jr. (2001). [Differential patterns of neonatal and post-neonatal mortality rates in Goiania, Brazil, 1992-1996: use of spatial analysis to identify high-risk areas]. *Cad Saude Publica*, 17(5), 1241-1250.

Crime

Appiahene-Gyamfi, J. (2001). *An Exploration of the Spatial and Temporal Patterning and Distribution of Crime in Ghana with Emphasis on Accra*. Unpublished Dissertation, Simon Fraser U.

Baller, R. D., Anselin, L., Messner, S. F., Deane, G., & Hawkins, D. F. (2001). Structural Covariates of U.S. Country Homicide Rates: Incorporating Spatial Effects. *Criminology*, 39(3), 561-590.

Beato Filho, C. C., Assuncao, R. M., Silva, B. F., Marinho, F. C., Reis, I. A., & Almeida, M. C. (2001). [Homicide clusters and drug traffic in Belo Horizonte, Minas Gerais State, Brazil from 1995 to 1999]. *Cad Saude Publica*, 17(5), 1163-1171.

Brimicombe, A. J., Ralphs, M. P., Sampson, A., & Tsui, H. Y. (2001). An Analysis of the Role of Neighbourhood Ethnic Composition in the Geographical Distribution of Racially Motivated Incidents. *British Journal of Criminology*, 41(2), 293-308.

Craglia, M., Haining, R., & Signoretta, P. (2001). Modelling high-intensity crime areas in English cities. *Urban Studies*, 38(11), 1921-1941.

Matei, S., Ball-Rokeach, S. J., & Qiu, J. L. (2001). Fear and Misperception of Los Angeles Urban Space: A Spatial-Statistical Study of Communication-Shaped Mental Maps. *Communication Research*, 28(4), 429-463.

Murray, A. T., McGuffog, I., Western, J. S., & Mullins, P. (2001). Exploratory Spatial Data Analysis Techniques for Examining Urban Crime. *British Journal of Criminology*, 41(2), 309-329.

Ratcliffe, J. H., & McCullagh, M. J. (2001). Chasing Ghosts? Police Perception of High Crime Areas. *British Journal of Criminology*, 41(2), 330-341.

Santos, S. M., Barcellos, C., Carvalho, M. S., & Flores, R. (2001). [Spatial clusters detection of violent deaths in Porto Alegre, Rio Grande do Sul, Brazil, 1996]. *Cad Saude Publica*, 17(5), 1141-1151.

Suresh, G. (2001). *Spatial Analysis of Crime: Aggravated Assault, Homicide and Rape Patterns in the City of Louisville (1989-1998)*. Unpublished Dissertation, U Louisville.

Vann, I. B., & Garson, G. D. (2001). Crime Mapping and Its Extension to Social Science Analysis. *Social Science Computer Review*, 19(4), 471-479.

Methods/Applications

Crankshaw, O., Welch, M., & Butcher, S. (2001). GIS Technology and Survey Sampling Methods: The Khayelitsha/Mitchell's Plain 2000 Survey. *Social Dynamics*, 27(2), 156-174.

Weng, Q. (2001). Modeling urban growth effects on surface runoff with the integration of remote sensing and GIS. *Environ Manage*, 28(6), 737-748.

Wise, S., Haining, R., & Ma, J. S. (2001). Providing spatial statistical data analysis functionality for the GIS user: the SAGE project. *International Journal of Geographical Information Science*, 15(3), 239-254.

Mapping/ Cartography

Kuznar, L. A., & Werner, O. (2001). Ethnographic Mapmaking: Part I-Principles. *Field Methods*, 13(2), 204-213.

Lawson, A. B. (2001). Disease map reconstruction. *Stat Med*, 20(14), 2183-2204.

Lucas, P., Fanchey, G., Mouton, C., & Jannin, J. (2001). [Monitoring human African trypanosomiasis in Central Africa in 2001 and cartography: results and perspectives]. *Med Trop (Mars)*, 61(4-5), 361-364.

Miscellaneous

Foley, J. E., Foley, P., & Madigan, J. E. (2001). Spatial distribution of seropositivity to the causative agent of granulocytic ehrlichiosis in dogs in California. *Am J Vet Res*, 62(10), 1599-1605.