

SPATIAL ANALYSIS ARTICLES IN 2007

This is a partial listing of Spatial Analysis related publications that appeared in 2007.

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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.

Social Science

Archaeology

Adams, E. (2007). "Time and Chance": Unraveling Temporality in North-Central Neopalatial Crete. *American Journal of Archaeology*, 111(3), 391.

Bar-Yosef, O. (2007). The Archaeological Framework of the Upper Paleolithic Revolution. *Diogenes*, 54(2), 3.

Clark, D. L. C. (2007). Viewing the liturgy: a space syntax study of changing visibility and accessibility in the development of the Byzantine church in Jordan. *World Archaeology*, 39(1), 84.

Langlois, O. (2007). Intrasite features distribution as a source of social information: The case of Djaba-Hossere (Northern Cameroon). *Journal of Anthropological Archaeology*, 26(2), 172-197.

Losier, L. M., Pouliot, J., & Fortin, M. (2007). 3D geometrical modeling of excavation units at the archaeological site of Tell 'Acharneh (Syria). *Journal of Archaeological Science*, 34(2), 272-288.

Anthropology

Huck, M., Roos, C., & Heymann, E. W. (2007). Spatio-genetic population structure in mustached tamarins, *Saguinus mystax*. *Am J Phys Anthropol*, 132(4), 576-583.

Rifkin, M.J. 2007. "A spatial analysis of neolithic cultures throughout Eastern, Central, and Northern Europe in relation to Proto-Germanic." *Journal of Indo-European Studies*, 35(1-2):53-81.

Economics

Baltagi, B.H., P. Egger, and M. Pfaffermayr. 2007. "Estimating models of complex FDI: Are there third-country effects?" *Journal of Econometrics*, 140(1):260-281.

Blonigen, B.A., R.B. Davies, G.R. Waddell, and H.T. Naughton. 2007. "FDI in space: Spatial autoregressive relationships in foreign direct investment." *European Economic Review*, 51(5):1303-1325.

Karkalakos, S., & Kotsogiannis, C. (2007). A spatial analysis of provincial corporate income tax responses: evidence from Canada. *The Canadian Journal of Economics*, 40(3), 782.

History

Miller, D. W., & Hochberg, L. J. (2007). Modernization and inequality in pre-famine Ireland - An exploratory spatial analysis. *Social Science History*, 31(1), 35-60.

Gender

Mills, A. (2007). Gender and Mahalle (neighborhood) space in Istanbul. *Gender Place and Culture*, 14(3), 335-354.

Inequality/Poverty

Gezici, F., & Hewings, G. J. D. (2007). Spatial analysis of regional inequalities in Turkey. *European Planning Studies*, 15(3), 383-403.

Rupasingha, A., & Goetz, S. J. (2007). Social and political forces as determinants of poverty: A spatial analysis. *Journal of Socio - Economics*, 36(4), 650.

Forensic Science

Bommarito, C. R., Sturdevant, A. B., & Szymanski, D. W. (2007). Analysis of forensic soil samples via high-performance liquid chromatography and ion chromatography. *J Forensic Sci*, 52(1), 24-30.

Human Geography

Withers, C. W. J. (2007). History and Philosophy of Geography 2004-2005: Biographies, Practices, Site. *Progress in Human Geography*, 31(1), 67-76.

Migration

Caravello, G. U., & Tasso, M. (2007). Surnames As Alleles: Spatial Distribution of Surnames in a Province of the Italian Alps. *Journal of Biosocial Science*, 39(3), 409-419.

Children Welfare

Freisthler, B., Bruce, E., & Needell, B. (2007). Understanding the geospatial relationship of neighborhood characteristics and rates of maltreatment for black, Hispanic, and white children. *Social Work*, 52(1), 7-16.

Freisthler, B., Gruenewald, P. J., Rerner, L. G., Lery, B., & Needell, B. (2007). Exploring the spatial dynamics of alcohol outlets and child protective services referrals, substantiations, and foster care entries. *Child Maltreatment*, 12(2), 114-124.

Determining Clustering

Dawkins, C. J. (2007). Exploring changes in income clustering and centralization during the 1990s. *Journal of Planning Education and Research*, 26(4), 404-414.

Organization Studies

Watkins, C. (2007). A spatial consideration of organisational performance: an excess of representation? *International Journal of Productivity and Performance Management*, 56(1), 76.

Environment and Land Use

Resources Management

Agyemang, I., A. McDonald, and S. Carver. 2007. "Application of the DPSIR framework to environmental degradation assessment in northern Ghana." *Natural Resources Forum*, 31(3):212-225.

Alix-Garcia, J. (2007). A spatial analysis of common property deforestation. *Journal of Environmental Economics and Management*, 53(2), 141-157.

Bone, C., Dragicevic, S., & Roberts, A. (2007). Evaluating forest management practices using a GIS-based cellular automata modeling approach with multispectral imagery. *Environmental Modeling & Assessment*, 12(2), 105-118.

Neupane, A., Boxall, P. C., McFarlane, B. L., & Pelletier, R. T. (2007). Using expert judgments to understand spatial patterns of forest-based camping: A values-at-risk application. *J Environ Manage*, 85(2), 471-482.

Trisurat, Y. (2007). Applying gap analysis and a comparison index to evaluate protected areas in Thailand. *Environ Manage*, 39(2), 235-245.

Ye, L., Han, X. Q., Xu, Y. Y., & Cai, Q. H. (2007). Spatial analysis for spring bloom and nutrient limitation in Xiangxi bay of three Gorges Reservoir. *Environ Monit Assess*, 127(1-3), 135-145.

Climate

Parey, S., Malek, F., Laurent, C., & Dacunha-Castelle, D. (2007). Trends and climate evolution: Statistical approach for very high temperatures in France. *Climatic Change*, 81(3-4), 331.

Landscape and Land Cover Change

Carter, T., & Jackson, C. R. (2007). Vegetated roofs for stormwater management at multiple spatial scales. *Landscape and Urban Planning*, 80(1-2), 84-94.

Fan, F., Wang, Y., & Wang, Z. (2007). Temporal and spatial change detecting (1998-2003) and predicting of land use and land cover in Core corridor of Pearl River Delta (China) by using TM and ETM+ images. *Environ Monit Assess*.

Haase, D., Walz, U., Neubert, M., & Rosenberg, M. (2007). Changes to Central European landscapes - Analysing historical maps to approach current environmental issues, examples from Saxony, Central Germany. *Land Use Policy*, 24(1), 248-263.

He, Y. B., Z. S., L. J., & Wang, S. L. (2007). [Regional evapotranspiration of different land covers based on remote sensing]. *Ying Yong Sheng Tai Xue Bao*, 18(2), 288-296.

Kadiogullari, A. I., & Baskent, E. Z. (2007). Spatial and temporal dynamics of land use pattern in Eastern Turkey: a case study in Gumushane. *Environ Monit Assess*.

Miriti, M. N. (2007). Twenty years of changes in spatial association and community structure among desert perennials. *Ecology*, 88(5), 1177-1190.

Peng, J., Wang, Y., Wu, J., Chang, Q., & Zhang, Y. (2007). Evaluation for sustainable land use in mountain areas of Northwestern Yunnan Province, China. *Environ Monit Assess*.

Reibel, M. and A. Agrawal. 2007. "Areal interpolation of population counts using pre-classified land cover data." *Population Research and Policy Review*, 26(5-6):619-633.

Verchot, L. V., Zomer, R., Straaten, O. V., & Muys, B. (2007). Implications of Country-Level Decisions on the Specification of Crown Cover in the Definition of Forests for Land Area Eligible for Afforestation and Reforestation Activities in the CDM. *Climatic Change*, 81(3-4), 415.

Xu, C., Liu, M. S., Zhang, C., An, S. Q., Yu, W., & Chen, J. M. (2007). The spatiotemporal dynamics of rapid urban growth in the Nanjing metropolitan region of China. *Landscape Ecology*, 22(6), 925-937.

Conservation/Sustainable Development

Falcucci, A., Maiorano, L., & Boitani, L. (2007). Changes in land-use/land-cover patterns in Italy and their implications for biodiversity conservation. *Landscape Ecology*, 22(4), 617-631.

Xu, J. Y., Chen, L. D., Lu, Y. H., & Fu, B. J. (2007). Sustainability Evaluation of the Grain for Green Project: From Local People's Responses to Ecological Effectiveness in Wolong Nature Reserve. *Environ Manage*, 40(1), 113-122.

Forestry

Bluthgen, N., & Stork, N. E. (2007). Ant mosaics in a tropical rainforest in Australia and elsewhere: A critical review. *Austral Ecology*, 32(1), 93.

Comas, C., & Mateu, J. (2007). Modelling forest dynamics: a perspective from point process methods. *Biom J*, 49(2), 176-196.

Coops, N. C., Coggins, S. B., & Kurz, W. A. (2007). Mapping the environmental limitations to growth of coastal Douglas-fir stands on Vancouver Island, British Columbia. *Tree Physiol*, 27(6), 805-815.

Gugerli, F., Walser, J. C., Dounavi, K., Holderegger, R., & Finkeldey, R. (2007). Coincidence of small-scale spatial discontinuities in leaf morphology and nuclear microsatellite variation of *Quercus petraea* and *Q. robur* in a mixed forest. *Ann Bot (Lond)*, 99(4), 713-722.

Ichii, K., Hashimoto, H., White, M. A., Potter, C., Hutya, L. R., Huete, A. R., et al. (2007). Constraining rooting depths in tropical rainforests using satellite data and ecosystem modeling for accurate simulation of gross primary production seasonality. *Global Change Biology*, 13(1), 67.

Wing, M. G., & Sessions, J. (2007). Geospatial Technology Education. *Journal of Forestry*, 105(4), 173.

Wildfire

Carroll, E. M., Miller, W. W., Johnson, D. W., Saito, L., Qualls, R. G., & Walker, R. F. (2007). Spatial analysis of a large magnitude erosion event following a Sierran wildfire. *J Environ Qual*, 36(4), 1105-1111.

Ecology

Watson, D. M., Roshier, D. A., & Wiegand, T. (2007). Spatial ecology of a root parasite - from pattern to process. *Austral Ecology*, 32(4), 359.

Agriculture

Veterinary Medicine

Allepuz, A., Lopez-Quilez, A., Forte, A., Fernandez, G., & Casal, J. (2007). Spatial analysis of bovine spongiform encephalopathy in Galicia, Spain (2000-2005). *Prev Vet Med*, 79(2-4), 174-185.

Boender, G. J., Hagenaars, T. J., Bouma, A., Nodelijk, G., Elbers, A. R., de Jong, M. C., et al. (2007). Risk maps for the spread of highly pathogenic avian influenza in poultry. *PLoS Comput Biol*, 3(4), e71.

Ghneim, G. S., Viers, J. H., Chomel, B. B., Kass, P. H., Descollonges, D. A., & Johnson, M. L. (2007). Use of a case-control study and geographic information systems to determine environmental and demographic risk factors for canine leptospirosis. *Vet Res*, 38(1), 37-50.

Goodwin-Ray, K. A., Stevenson, M., Heuer, C., & Pinchbeck, G. (2007). Hierarchical and spatial analyses of pneumonia-lesion prevalence at slaughter in New Zealand lambs. *Prev Vet Med*.

Goutard, F., Roger, F., Guitian, F. J., Balanca, G., Argaw, K., Demissie, A., et al. (2007). Conceptual framework for avian influenza risk assessment in Africa: the case of Ethiopia. *Avian Dis*, 51(1 Suppl), 504-506.

Langevin, L. M., Mattar, P., Scardigli, R., Roussigne, M., Logan, C., Blader, P., et al. (2007). Validating in utero electroporation for the rapid analysis of gene regulatory elements in the murine telencephalon. *Dev Dyn*, 236(5), 1273-1286.

Mainar-Jaime, R. C., Woodbury, M. R., & Chirino-Trejo, M. (2007). Survey on 'lumpy jaw' on deer farms in western Canada: prevalence and distribution, and identification of associated factors. *N Z Vet J*, 55(1), 30-39.

Miller, R., Kaneene, J. B., Schmitt, S. M., Lusch, D. P., & Fitzgerald, S. D. (2007). Spatial analysis of *Mycobacterium bovis* infection in white-tailed deer (*Odocoileus virginianus*) in Michigan, USA. *Prev Vet Med*.

Mondaca-Fernandez, E., & Morrison, R. B. (2007). Applying spatial analysis to a porcine reproductive and respiratory syndrome regional control programme. *Vet Rec*, 161(4), 137-138.

Mulatti, P., Kitron, U., Mannelli, A., Ferre, N., & Marangona, S. (2007). Spatial analysis of the 1999-2000 highly pathogenic avian influenza (H7N1) epidemic in northern Italy. *Avian Dis*, 51(1 Suppl), 421-424.

Paul, M., Abrial, D., Jarrige, N., Rican, S., Garrido, M., Calavas, D., et al. (2007). Bovine spongiform encephalopathy and spatial analysis of the feed industry. *Emerg Infect Dis*, 13(6), 867-871.

Porphyre, T., McKenzie, J., & Stevenson, M. (2007). A descriptive spatial analysis of bovine tuberculosis in intensively controlled cattle farms in New Zealand. *Vet Res*, 38(3), 465-479.

Recuenco, S., Eidson, M., Kulldorff, M., Johnson, G., & Cherry, B. (2007). Spatial and temporal patterns of enzootic raccoon rabies adjusted for multiple covariates. *Int J Health Geogr*, 6, 14.

Suzuki, K., Pereira, J. A., Lopez, R., Morales, G., Rojas, L., Mutinelli, L. E., et al. (2007). Descriptive spatial and spatio-temporal analysis of the 2000-2005 canine rabies endemic in Santa Cruz de la Sierra, Bolivia. *Acta Trop*.

Agricultural Production

Hodson, D. P., & White, J. W. (2007). Use of spatial analyses for global characterization of wheat-based production systems. *The Journal of Agricultural Science*, 145(2), 115.

O'Kelly, M. E. (2007). The impact of accessibility change on the geography of crop production: A reexamination of the Illinois and Michigan canal using GIS. *Annals of the Association of American Geographers*, 97(1), 49-63.

Plant/Fungi Genes

Fievet, V., Touzet, P., Arnaud, J. F., & Cuguen, J. (2007). Spatial analysis of nuclear and cytoplasmic DNA diversity in wild sea beet (*Beta vulgaris* ssp. *maritima*) populations: do marine currents shape the genetic structure? *Mol Ecol*, 16(9), 1847-1864.

Fricker, M. D., Tlalka, M., Bebbler, D., Tagaki, S., Watkinson, S. C., & Darrah, P. R. (2007). Fourier-based spatial mapping of oscillatory phenomena in fungi. *Fungal Genet Biol*.

Jump, A. S., & Penuelas, J. (2007). Extensive spatial genetic structure revealed by AFLP but not SSR molecular markers in the wind-pollinated tree, *Fagus sylvatica*. *Mol Ecol*, 16(5), 925-936.

Sica, M., Gaudio, L., & Aceto, S. (2007). Genetic structure of *Tuber mesentericum* Vitt. based on polymorphisms at the ribosomal DNA ITS. *Mycorrhiza*, 17(5), 405-414.

Yang, C., Guo, R., Jie, F., Nettleton, D., Peng, J., Carr, T., et al. (2007). Spatial analysis of *Arabidopsis thaliana* gene expression in response to Turnip mosaic virus infection. *Mol Plant Microbe Interact*, 20(4), 358-370.

Entomology

Foley, D. H., Rueda, L. M., & Wilkerson, R. C. (2007). Insight into global mosquito biogeography from country species records. *J Med Entomol*, 44(4), 554-567.

Health

Public Health Analysis

Ajjampur, S. S., Gladstone, B. P., Selvapandian, D., Muliylil, J. P., Ward, H., & Kang, G. (2007). Molecular and spatial epidemiology of cryptosporidiosis in children in a semiurban community in South India. *J Clin Microbiol*, 45(3), 915-920.

Ali, M., Thiem, V. D., Park, J. K., Ochiai, R. L., Canh, D. G., Danovaro-Holliday, M. C., et al. (2007). Geographic analysis of vaccine uptake in a cluster-randomized controlled trial in Hue, Vietnam. *Health & Place*, 13(3), 577-587.

Araujo, K. C., Resendes, A. P., Souza-Santos, R., Silveira Junior, J. C., & Barbosa, C. S. (2007). [Spatial analysis of *Biomphalaria glabrata* foci and human cases of mansoni schistosomiasis in Porto de Galinhas, Pernambuco State, Brazil, in the year 2000]. *Cad Saude Publica*, 23(2), 409-417.

Correa Antonialli, S. A., Torres, T. G., Paranhos Filho, A. C., & Tolezano, J. E. (2007). Spatial analysis of American Visceral Leishmaniasis in Mato Grosso do Sul State, Central Brazil. *J Infect*, 54(5), 509-514.

Crighton, E. J., Elliott, S. J., Moineddin, R., Kanaroglou, P., & Upshur, R. E. (2007). An exploratory spatial analysis of pneumonia and influenza hospitalizations in Ontario by age and gender. *Epidemiol Infect*, 135(2), 253-261.

Cusimano, M. D., Chipman, M., Glazier, R. H., Rinner, C., & Marshall, S. P. (2007). Geomatics in injury prevention: the science, the potential and the limitations. *Inj Prev*, 13(1), 51-56.

Emch, M., Ali, M., Acosta, C., Yunus, M., Sack, D. A., & Clemens, J. D. (2007). Efficacy calculation in randomized trials: Global or local measures? *Health & Place*, 13(1), 238-248.

Fugett, E. B., Schoonmaker-Bopp, D., Dumas, N. B., Corby, J., & Wiedmann, M. (2007). Pulsed-field gel electrophoresis (PFGE) analysis of temporally matched *Listeria monocytogenes* isolates from human clinical cases, foods, ruminant farms, and urban and natural environments reveals source-associated as well as widely distributed PFGE types. *J Clin Microbiol*, 45(3), 865-873.

Garb, J. L., Ganai, S., Skinner, R., Boyd, C. S., & Wait, R. B. (2007). Using GIS for spatial analysis of rectal lesions in the human body. *Int J Health Geogr*, 6, 11.

Lin, H., Liu, Q., Guo, J., Zhang, J., Wang, J., & Chen, H. (2007). Analysis of geographic distribution of HFRS in Liaoning Province between 2000 and 2005. *BMC Public Health*, 7(1), 207.

Portnov, B. A., Dubnov, J., & Barchana, M. (2007). On ecological fallacy, assessment errors stemming from misguided variable selection, and the effect of aggregation on the outcome of epidemiological study. *Journal of Exposure Science and Environmental Epidemiology*, 17(1), 106-121.

Veldhuizen, S., Urbanoski, K., & Cairney, J. (2007). Geographical variation in the prevalence of problematic substance use in Canada. *Can J Psychiatry*, 52(7), 426-433.

HIV/AIDS and STD

Niccolai, L. M., Stephens, N., Jenkins, H., Richardson, W., Muth, S. Q., & Rothenberg, R. (2007). Early syphilis among men in Connecticut: epidemiologic and spatial patterns. *Sex Transm Dis*, 34(3), 183-187.

Pierce, S. J., Miller, R. L., Morales, M. M., & Forney, J. (2007). Identifying HIV prevention service needs of African American men who have sex with men: an application of spatial analysis techniques to service planning. *J Public Health Manag Pract, Suppl*, S72-79.

Tuberculosis

Onozuka, D., & Hagihara, A. (2007). Geographic prediction of tuberculosis clusters in Fukuoka, Japan, using the space-time scan statistic. *BMC Infect Dis*, 7, 26.

Souza, W. V., Carvalho, M. S., Albuquerque, M., Barcellos, C. C., & Ximenes, R. A. A. (2007). Tuberculosis in intra-urban settings: a Bayesian approach. *Tropical Medicine & International Health*, 12(3), 323-330.

Accessibility of Health Services/Facilities

Hare, T.S. and H.R. Barcus. 2007. "Geographical accessibility and Kentucky's heart-related hospital services." *Applied Geography*, 27(3-4):181-205.

Horner, M. W., & Mascarenhas, A. K. (2007). Analyzing location-based accessibility to dental services: An Ohio case study. *Journal of Public Health Dentistry*, 67(2), 113-118.

Knott, K., & Franks, M. (2007). Secular values and the location of religion: a spatial analysis of an English medical centre. *Health Place*, 13(1), 224-237.

Mortality

Aragones, N., Ramis, R., Pollan, M., Perez-Gomez, B., Gomez-Barroso, D., Lope, V., et al. (2007). Oesophageal cancer mortality in Spain: a spatial analysis. *BMC Cancer*, 7, 3.

Bezerra Filho, J. G., Kerr, L. R., Mina Dde, L., & Barreto, M. L. (2007). [Spatial distribution of the infant mortality rate and its principal determinants in the State of Ceara, Brazil, 2000-2002]. *Cad Saude Publica*, 23(5), 1173-1185.

Diez Roux, A. V., Green Franklin, T., Alazraqui, M., & Spinelli, H. (2007). Intraurban variations in adult mortality in a large Latin American city. *J Urban Health*, 84(3), 319-333.

Hwang, S. S., Lee, J. H., Jung, G. W., Lim, J. H., & Kwon, H. J. (2007). [Spatial analysis of air pollution and lung cancer incidence and mortality in 7 metropolitan cities in Korea]. *J Prev Med Pub Health*, 40(3), 233-238.

Nascimento, L. F., Batista, G. T., Dias, N. W., Catelani, C. S., Becker, D., & Rodrigues, L. (2007). [Spatial analysis of neonatal mortality in Paraiba Valley, Southeastern Brazil, 1999 to 2001]. *Rev Saude Publica*, 41(1), 94-100.

Birth Defects

Gardner, B. R., Strickland, M. J., & Correa, A. (2007). Application of the automated spatial surveillance program to birth defects surveillance data. *Birth Defects Res A Clin Mol Teratol*, 79(7), 559-564.

Obesity

Kipke, M. D., Iverson, E., Moore, D., Booker, C., Ruelas, V., Peters, A. L., et al. (2007). Food and park environments: Neighborhood-level risks for childhood obesity in east Los Angeles. *Journal of Adolescent Health, 40*(4), 325-333.

Dentistry

Reich, B. J., Hodges, J. S., & Carlin, B. P. (2007). Spatial Analyses of Periodontal Data Using Conditionally Autoregressive Priors Having Two Classes of Neighbor Relations. *Journal of the American Statistical Association, 102*(477), 44.

Cancer

Bove, G. E., Jr., Rogerson, P. A., & Vena, J. E. (2007). Case control study of the geographic variability of exposure to disinfectant byproducts and risk for rectal cancer. *Int J Health Geogr, 6*, 18.

DeChello, L. M., & Sheehan, T. J. (2007). Spatial analysis of colorectal cancer incidence and proportion of late-stage in Massachusetts residents: 1995-1998. *Int J Health Geogr, 6*, 20.

Hwang, S. S., Lee, J. H., Jung, G. W., Lim, J. H., & Kwon, H. J. (2007). [Spatial analysis of air pollution and lung cancer incidence and mortality in 7 metropolitan cities in Korea]. *J Prev Med Pub Health, 40*(3), 233-238.

MacKinnon, J. A., Duncan, R. C., Huang, Y., Lee, D. J., Fleming, L. E., Voti, L., et al. (2007). Detecting an association between socioeconomic status and late stage breast cancer using spatial analysis and area-based measures. *Cancer Epidemiol Biomarkers Prev, 16*(4), 756-762.

Reynolds, H. M., Dunbar, P. R., Uren, R. F., Blackett, S. A., Thompson, J. F., & Smith, N. P. (2007). Three-dimensional visualisation of lymphatic drainage patterns in patients with cutaneous melanoma. *Lancet Oncol.*

Mental Health

Kirby, R. S. (2007). Incorporating geographical analysis into the study of mental retardation and developmental disabilities. In *International Review of Research in Mental Retardation, Vol 33* (Vol. 33, pp. 79-91).

Moscone, F., E. Tosetti, and M. Knapp. 2007. "Sur model with spatial effects: An application to mental health expenditure." *Health Economics, 16*(12):1403-1408.

Malaria

Atanaka-Santos, M., Souza-Santos, R., & Czeresnia, D. (2007). Spatial analysis for stratification of priority malaria control areas, Mato Grosso State, Brazil. *Cad Saude Publica*, 23(5), 1099-1112.

Sogoba, N., Vounatsou, P., Doumbia, S., Bagayoko, M., Toure, M. B., Sissoko, I. M., et al. (2007). Spatial analysis of malaria transmission parameters in the rice cultivation area of Office du Niger, Mali. *Am J Trop Med Hyg*, 76(6), 1009-1015.

Water System

Akita, Y., Carter, G., & Serre, M. L. (2007). Spatiotemporal nonattainment assessment of surface water tetrachloroethylene in New Jersey. *J Environ Qual*, 36(2), 508-520.

Qadir, A., Malik, R. N., & Husain, S. Z. (2007). Spatio-temporal variations in water quality of Nullah Aik-tributary of the river Chenab, Pakistan. *Environ Monit Assess*.

Steinman, A. D., Biddanda, B., Chu, X., Thompson, K., & Rediske, R. (2007). Environmental analysis of groundwater in Mecosta County, Michigan. *Environ Monit Assess*.

Zhou, F., Liu, Y., & Guo, H. (2007). Application of Multivariate Statistical Methods to Water Quality Assessment of the Watercourses in Northwestern New Territories, Hong Kong. *Environ Monit Assess*, 132(1-3), 1-13.

Brain/Neurology

Bearden, C. E., Thompson, P. M., Dalwani, M., Hayashi, K. M., Lee, A. D., Nicoletti, M., et al. (2007). Greater cortical gray matter density in lithium-treated patients with bipolar disorder. *Biol Psychiatry*, 62(1), 7-16.

Carr, S. M., Phillips, J. G., & Meehan, J. W. (2007). Non-target flanker effects on movement in a virtual action centred reference frame. *Exp Brain Res*.

Dien, J., Khoe, W., & Mangun, G. R. (2007). Evaluation of PCA and ICA of simulated ERPs: Promax vs. infomax rotations. *Hum Brain Mapp*, 28(8), 742-763.

Duffy, K. R., Murphy, K. M., Frosch, M. P., & Livingstone, M. S. (2007). Cytochrome oxidase and neurofilament reactivity in monocularly deprived human primary visual cortex. *Cereb Cortex*, 17(6), 1283-1291.

Pollution (Other)

Demirel, Z. (2007). Monitoring of heavy metal pollution of groundwater in a phreatic aquifer in mersin-Turkey. *Environ Monit Assess*, 132(1-3), 15-23.

Lee, J.J., C.S. Jang, S.W. Wang, and C.W. Liu. 2007. "Evaluation of potential health risk of arsenic-affected groundwater using indicator kriging and dose response model." *Science of the Total Environment*, 384(1-3):151-162.

Zhang, J., Wu, L., & Lin, K. (2007). [Geographic information system based spatial analysis on chronic arsenic poisoning in a tin mining area, Thailand]. *Wei Sheng Yan Jiu*, 36(3), 357-360.

Zhou, F., Guo, H., & Hao, Z. (2007). Spatial distribution of heavy metals in Hong Kong's marine sediments and their human impacts: A GIS-based chemometric approach. *Mar Pollut Bull*.

Pollution (Air)

Smith, L. A., Stock, T. H., Chung, K. C., Mukerjee, S., Liao, X. L., Stallings, C., et al. (2007). Spatial analysis of volatile organic compounds from a community-based air toxics monitoring network in deer park, Texas, USA. *Environ Monit Assess*, 128(1-3), 369-379.

Sohrabinia, M., & Khorshiddoust, A. M. (2007). Application of satellite data and GIS in studying air pollutants in Tehran. *Habitat International*, 31(2), 268-275.

VandeWeghe, J. R., & Kennedy, C. (2007). A Spatial Analysis of Residential Greenhouse Gas Emissions in the Toronto Census Metropolitan Area. *Journal of Industrial Ecology*, 11(2), 133.

Zandbergen, P. A. (2007). Influence of geocoding quality on environmental exposure assessment of children living near high traffic roads. *BMC Public Health*, 7, 37.

Genetics/Gene

Deussing, J. M., Kuhne, C., Putz, B., Panhuysen, M., Breu, J., Stenzel-Poore, M. P., et al. (2007). Expression profiling identifies the CRH/CRH-R1 system as a modulator of neurovascular gene activity. *J Cereb Blood Flow Metab*, 27(8), 1476-1495.

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