

SPATIAL PATTERN ANALYSIS

This is a partial listing of Spatial Pattern Analysis-related publications that appeared between 2007 and 2009.

Prepared Fall 2009

This publication list was prepared as part of the R25 Advanced Spatial Analysis Training Program funded by NICHD (Stephen Matthews, PI).

Anderson, T.K. (2009). "Kernel density estimation and K-means clustering to profile road accident hotspots." *Accident Analysis and Prevention*, 41(3):359-364.

Cabrer-Borras, B. and G. Serrano-Domingo. 2007. "Innovation and R&D spillover effects in Spanish regions: A spatial approach." *Research Policy*, 36(9):1357-1371.

Carrel, M., M. Emch, P.K. Streatfield, and M. Yunus. 2009. "Spatio-temporal clustering of cholera: The impact of flood control in Matlab, Bangladesh, 1983-2003." *Health & Place*, 15(3):741-752.

Chaikaew, N., N.K. Tripathi, and M. Souris. 2009. "Exploring spatial patterns and hotspots of diarrhea in Chiang Mai, Thailand." *International Journal of Health Geography*, 8(36).

Chang, H. 2008. "Spatial analysis of water quality trends in the Han River basin, South Korea." *Water Resources*, 42(13):3285-3304.

Corcoran, J., G. Higgs, C. Brunsdon, and A. Ware. 2007. "The use of comaps to explore the spatial and temporal dynamics of fire incidents: A case study in South Wales, United Kingdom." *Professional Geographer*, 59(4):521-536.

Hammer, O. 2009. "New statistical methods for detecting point alignments." *Computers & Geosciences*, 35(3):659-666.

Hassan, M.M. and P.J. Atkins. 2007. "Arsenic risk mapping in Bangladesh: a simulation technique of cokriging estimation from regional count data." *Journal of Environmental Science Health, Part A Toxic/Hazardous Substance Environmental Engineering*, 42(12): 1719-1728.

Kahn, M.E. and R.K. Vaughn. 2009. "Green Market Geography: The Spatial Clustering of Hybrid Vehicles and LEED Registered Buildings." *The B.E. Journal of Economic Analysis & Policy*, 9(2).

Lewis, R.L., C.U. Soykan, and J. Franklin. 2009. "Mapping the bycatch

seascape: multispecies and multi-scale spatial patterns of fisheries bycatch." *Ecological Applications*, 19(4):920-930.

Martori, J.C. and K. Hoberg. 2008. "New techniques of spatial statistics for the detection of residential clusters of immigrant populations." *Scripta Nova-Revista Electronica De Geografia Y Ciencias Sociales*, 12(263).

McNally, R.J.Q. and A.F. Colver. 2008. "Space time clustering analyses of occurrence of cerebral palsy in northern England for births 1991 to 2003." *Annals of Epidemiology*, 18(2):108-112.

Oakley, D. 2008. "Locational patterns of Low-Income Housing Tax Credit developments: A sociospatial analysis of four metropolitan areas." *Urban Affairs Review*, 43(5):599-628.

Pereira, M. and D. Figueiredo. 2009. "Effects of the Alqueva Dam Reservoir on the distribution of Steppe birds." *Physical Geography*, 30(1):43-63.

Perez, A.M., D. Zeng, C.J. Tseng, H. Chen, Z. Whedbee, D. Paton, et al. 2009. "A web-based system for near real-time surveillance and space-time cluster analysis of foot-and-mouth disease and other animal diseases." *Preventative Veterinary Medicine*, 91(1):39-45.

Piou, C., U. Berger, and I.C. Feller. 2009. "Spatial structure of a leaf-removing crab population in a mangrove of North-Brazil." *Wetlands Ecology and Management*, 17(2):93-106.

Rezaeian, M., G. Dunn, S. St Leger, and L. Appleby. 2007. "Do hot spots of deprivation predict the rates of suicide within London boroughs?" *Health & Place*, 13(4):886-893.

Xi, W.M., R.K. Peet, and D.L. Urban. 2008. "Changes in forest structure, species diversity and spatial pattern following hurricane disturbance in a Piedmont North Carolina forest, USA." *Journal of Plant Ecology-UK*, 1(1):43-57.

Xu, X.M., T.D. Harwood, M. Pautasso, and M.J. Jeger. 2009. "Spatio-temporal analysis of an invasive plant pathogen (*Phytophthora ramorum*) in England and Wales." *Ecography*, 32(3):504-516.

Yeshiwondim, A.K., S. Gopal, A.T. Hailemariam, D.O. Dengela, and H.P. Patel. 2009. "Spatial analysis of malaria incidence at the village level in areas with unstable transmission in Ethiopia." *International Journal of Health Geographics*, 8.