

PsychInfo Literature Search Categorized

Records from PsycINFO (CSA) – 1990-2005

Keywords used: Geographic Information Systems, GIS, Spatial Analysis

Literature search conducted 10/26/05 by Tara Murray, PRI Information Core

Literature search results categorized by Becki Curtis and Stephen Matthews

Health

Alcohol

Freisthler, B. (2004). Corrigendum to "A spatial analysis of social disorganization, alcohol access, and rates of child maltreatment in neighborhoods" [Children and Youth Services Review 26 (2004) 803-819]. *Children and Youth Services Review*, 26(12), 1193.

Gruenewald, P. J., Remer, L., & Lipton, R. (2002). Evaluating the alcohol environment: Community geography and alcohol problems. *Alcohol Research & Health*, 26(1), 42-48.

Jones, J. (2001). The geography of mental health. *Epidemiologia e Psichiatria Sociale*, 10(4), 219-224.

Drug Use

Mason, M. J., Cheung, I., & Walker, L. (2004). The Social Ecology of Urban Adolescent Substance Use: A Case Study Utilizing Geographic Information Systems. *Journal of Primary Prevention*, 25(2), 271-282.

Emergency Management

Chang, N.-B., Wei, Y. L., Tseng, C. C., & Kao, C. Y. J. (1997). The design of a GIS-based decision support system for chemical emergency preparedness and response in an urban environment. *Computers, Environment and Urban Systems*, 21(1), 67-94.

Health

Kopp, S., Shuchman, R., Strecher, V., Gueye, M., Ledlow, J., Philip, T., et al. (2002). Public health applications. *Telemedicine Journal and e-Health*, 8(1), 35-48.

Suggett, B., & Larsen, P. (2000). Prenatal education class attendance with additional insights provided by a geographic information system. *Canadian Journal of Program Evaluation. Spec Issue*, 177-183.

Viadro, C. I. (2004). Taking Stock of WISEWOMAN. *Journal of Women's Health, 13*(5), 480-483.

Environment

Agriculture

Ganskopp, D., Cruz, R., & Johnson, D. E. (2000). Least-effort pathways?: A GIS analysis of livestock trails in rugged terrain. *Applied Animal Behaviour Science, 68*(3), 179-190.

Grabski, S. V., & Mendez, D. (1998). Implementation of a knowledge-based agricultural geographic decision-support system in the Dominican Republic: A case study. *Information Technology & People, 11*(3), 174-193.

Animal Studies

Aspbury, A. S., & Gibson, R. M. (2004). Long-range visibility of greater sage grouse leks: A GIS-based analysis. *Animal Behaviour, 67*(6), 1127-1132.

Lehman, S. M. (2004). Distribution and Diversity of Primates in Guyana: Species-Area Relationships and Riverine Barriers. *International Journal of Primatology, 25*(1), 73-95.

M'Kirera, F., & Ungar, P. S. (2003). Occlusal Relief Changes With Molar Wear in Pan troglodytes troglodytes and Gorilla gorilla gorilla. *American Journal of Primatology, 60*(2), 31- 41.

Phillips, K. A., Elvey, C. R., & Abercrombie, C. L. (1998). Applying GPS to the study of primate ecology: A useful tool? *American Journal of Primatology, 46*(2), 167-172.

Scholz, F., & Kappeler, P. M. (2004). Effects of Seasonal Water Scarcity on the Ranging Behavior of *Eulemur fulvus rufus*. *International Journal of Primatology, 25*(3), 599-613.

Spong, G. (2002). Space use in lions, *Panthera leo*, in the Selous Game Reserve: Social and ecological factors. *Behavioral Ecology and Sociobiology, 52*(4), 303-307.

Tourenq, C., Benhamou, S., Sadoul, N., Sandoz, A., Mesléard, F., Martin, J.-L., et al. (2004). Spatial Relationships Between Tree-Nesting Heron Colonies and Rice Fields in the Camargue, France. *Auk, 121*(1), 192-202.

Environment and Land Use

Gottsegen, J. (1998). Using argumentation analysis to assess stakeholder interests in planning debates. *Computers, Environment and Urban Systems, 22*(4), 365-379.

Rosero-Bixby, L., & Palloni, A. (1998). Population and deforestation in Costa Rica. *Population and Environment: A Journal of Interdisciplinary Studies*, 20(2), 149-185.

Silka, L. (1996). Transforming the psychology of risk: From social perception to the geography of communities. In R. Feldman (Ed.), *The psychology of adversity*. (pp. 219-239): University of Massachusetts Press, Amherst, MA, US.

Economics/Urban

Urban Planning and Community

Al-Kodmany, K. (1999). The art of community design: Stimulating shared neighborhood visions. In T. Mann (Ed.), *The power of imagination*. (pp. 40-45): Environmental Design Research Association, Edmond, OK, US.

Jones, R. M. (1998). An analysis of computer-supported co-operative work systems to support decision-making in regional planning. *Computers, Environment and Urban Systems*, 22(4), 335-350.

Lo, C. P. (1997). Application of Landsat TM data for quality of life assessment in an urban environment. *Computers, Environment and Urban Systems*, 21(3-4), 259-276.

Odendaal, N. (2003). Information and communication technology and local governance: Understanding the difference between cities in developed and emerging economies. *Computers, Environment and Urban Systems*, 27(6), 585-607.

Robertson, J. G., & Wier, K. R. (1998). Using geographical information systems to enhance community-based child welfare services. *Child Maltreatment: Journal of the American Professional Society on the Abuse of Children*, 3(3), 224-234.

Sussman, R. (1996). Implementing municipal GIS: Human behaviour and the decision-making process. *Computers, Environment and Urban Systems*, 20(3), 213-223.

Social Sciences

Crime

Baller, R. D., Messner, S. F., Anselin, L., & Deane, G. (2002). The interchangeability of homicide data sources. *Homicide Studies: An Interdisciplinary & International Journal*, 6(3), 211-227.

Law, H. (1997). Engineering psychology: The hidden psychologist--a case study on the evaluation of the Safer Cities programme using a geographical information system. In D. Harris (Ed.), *Engineering psychology and cognitive ergonomics, Vol. 2: Job design and product design*. (pp. 231-238): Ashgate Publishing Co, Burlington, VT, US, [URL:<http://www.ashgate.com>].

Methods/Applications

Application

Corman, S. R., Kuhn, T., McPhee, R. D., & Dooley, K. J. (2002). Studying complex discursive systems: Centering resonance analysis of communication. *Human Communication Research*, 28(2), 157-206.

Golledge, R. G. (2002). The open door of GIS. In R. Bechtel & A. Churchman (Eds.), *Handbook of environmental psychology*. (pp. 244-255): John Wiley & Sons, Inc, Hoboken, NJ, US.

Kitchin, R. M. (1994). Cognitive maps: What are they and why study them? *Journal of Environmental Psychology*, 14(1), 1-19.

Wellar, B. (1993). Key institutional and organizational factors affecting GIS/LIS strategies and applications. *Computers, Environment and Urban Systems. Special Issue: GIS/LIS 93: Hungary: Mapping the future: Leading the way in Central and Eastern Europe*, 17(3), 201-212.

Artificial Intelligence

Duckham, M., Drummond, J., & Forrest, D. (2000). Spatial data quality capture through inductive learning. *Spatial Cognition and Computation*, 2(4), 261-282.

Fischer, M. M. (1994). From conventional to knowledge-based geographic information systems. *Computers, Environment and Urban Systems*, 18(4), 233-242.

Behavioral/Cognitive Studies

Blaser, A. D. (2000). A study of people's sketching habits in GIS. *Spatial Cognition and Computation*, 2(4), 393-419.

Frank, A. U., & Raubal, M. (1999). Formal specification of image schemata - a step towards interoperability in geographic information systems. *Spatial Cognition and Computation*, 1(1), 67-101.

Han, K.-T. (1999). A proposed landscape assessment framework: A connection of theories and practical techniques. *Journal of Architectural and Planning Research*, 16(4), 313-327.

Sester, M. (1999). Acquiring transition rules between multiple representations in a GIS: An experiment with area aggregation. *Computers, Environment and Urban Systems*, 23(1), 5-17.

Data Mining

Car, A., Taylor, G., & Brunson, C. (2001). An analysis of the performance of a hierarchical wayfinding computational model using synthetic graphs. *Computers, Environment and Urban Systems*, 25(1), 69-88.

Fuzzy Logic/Sets

Guesgen, H. W. (2002). Reasoning about distance based on fuzzy sets. *Applied Intelligence*, 17(3), 265-270.

Guesgen, H. W., Hertzberg, J., Lobb, R., & Mantler, A. (2003). Buffering fuzzy maps in GIS. *Spatial Cognition and Computation. Special Issue: Spatial vagueness, uncertainty, granularity*, 3(2-3), 205-220.

Montello, D. R., Goodchild, M. F., Gottsegen, J., & Fohl, P. (2003). Where's downtown? Behavioral methods for determining referents of vague spatial queries. *Spatial Cognition and Computation. Special Issue: Spatial vagueness, uncertainty, granularity*, 3(2-3), 185-204.

PPGIS

Voss, A., Denisovich, I., Gatalsky, P., Gavouchidis, K., Klotz, A., Roeder, S., et al. (2004). Evolution of a participatory GIS. *Computers, Environment and Urban Systems*, 28(6), 635-651.

Qualitative

Skinner, D., Matthews, S., & Burton, L. (2005). Combining ethnography and GIS technology to examine constructions of developmental opportunities in contexts of poverty and disability. In T. Weisner (Ed.), *Discovering successful pathways in children's development: Mixed methods in the study of childhood and family life*. (pp. 223-239): University of Chicago Press, Chicago, IL, US.

Semantics/Ontology

Belussi, A., & Cristani, M. (2000). Mereological inheritance. *Spatial Cognition and Computation*, 2(4), 467-494.

Mennis, J. L. (2003). Derivation and implementation of a semantic GIS data model informed by principles of cognition. *Computers, Environment and Urban Systems*, 27(5), 455-479.

Zhan, F. B. (2003). Cognitive evidence of vagueness associated with some linguistic terms in descriptions of spatial relations. *Spatial Cognition and Computation. Special Issue: Spatial vagueness, uncertainty, granularity*, 3(2-3), 239-255.

Software and Development

de Kluijver, H., & Stoter, J. (2003). Noise mapping and GIS: Optimising quality and efficiency of noise effect studies. *Computers, Environment and Urban Systems*, 27(1), 85-102.

Frank, A. U., & Raubal, M. (2000). Formal specifications of image schemata for interoperability in geographic information systems. In S. Nualláin (Ed.), *Spatial cognition: Foundations and applications: Selected papers from Mind III, Annual Conference of the Cognitive Science Society of Ireland, 1998*. (pp. 213-232): John Benjamins Publishing Company, Amsterdam, Netherlands.

Gurney, J., Klipple, E., & Winkler, R. (2002). A simulated language understanding agent using virtual perception. In Mc, S. Nualláin & C. Mulvihill (Eds.), *Language, vision, and music: Selected papers from the 8th International Workshop on the Cognitive Science of Natural Language Processing, Galway, Ireland 1999*. (pp. 39-53): John Benjamins Publishing Company, Amsterdam, Netherlands.

Malerba, D., Esposito, F., Lanza, A., Lisi, F. A., & Appice, A. (2003). Empowering a GIS with inductive learning capabilities: The case of INGENS. *Computers, Environment and Urban Systems. Special Issue: Emerging technologies for geo-based applications*, 27(3), 265-281.

McArthur, D., Lewis, M. W., & Bishay, M. (1995). ESSCOTS for learning: Transforming commercial software into powerful educational tools. *Journal of Artificial Intelligence in Education*, 6(1), 3-33.

Spatial Analysis/Statistics Issues

Giavoni, A., & Tamayo, Á. (2003). Spatial analysis: Concept, Method and Applicability/Análise Espacial: Conceito, Método e Aplicabilidade. *Psicologia: Reflexão e Crítica*, 16(2), 303-307.

Hallin, M., Lu, Z., & Tran, L. T. (2004). Kernel density estimation for spatial processes: The L-sub(1) theory. *Journal of Multivariate Analysis*, 88(1), 61-75.

Mateu, J. (2002). Recent Developments in Spatial Analysis and its Relationship to Behavioural Modelling: An Overview. *Metodologia de las Ciencias del Comportamiento*, 4(2), 339-377.

Petrucci, A., & Schifini D'Andrea, S. (2002). Quality of life in Europe: Objective and subjective indicators: A spatial analysis using classification techniques. *Social Indicators Research*, 60(1-3), 55-88.

WebGIS

Maguire, D. J., & Longley, P. A. (2005). The emergence of geoportals and their role in spatial data infrastructures. *Computers, Environment and Urban Systems. Special Issue: Geoportals*, 29(1), 3-14.