GIS in Education Bibliography: Articles – Last Updated – 7 September 2005

Compiled by:

Joseph Kerski (USGS),
Bob Kolvoord (James Madison University),
and
Barbara Wallner (Secretary Gustav Fritsche Middle School, Milwaukee, Wisconsin, and
        GIS intern)

Other online bibliographies are on:

http://rockyweb.cr.usgs.gov/public/outreach/articles/chapref.pdf

http://kangis.org/research/

and

http://campus.esri.com/library/

Articles

Abler, Ronald F. 1987. "The National Science Foundation, National Center for Geographic Information and Analysis." **International Journal of Geographical Information Systems.**
Vol. 1, Issue 4: pp. 303-326.

Acheson, Gillian. 2004. "An Investigation of Secondary Science Teachers' Use of GIS in the Classroom". *Proceedings of the 2004 Society for Technology and Teacher Educational International Conference*,
pp. 4595-4999.

Adlam, K., A. Clayton, and B. Kelk. 1988. "A 'Demonstator' for the National Geosciences Data Index."
International Journal of Geographical Information Systems. Vol. 2, Issue 2: pp. 161-170.

Adsett, K., M. Leslie, S. Hewavisenthi, and C. Hewavisenthi. 2002. "A Digital Elevation Model for the Nogoa River Catchment, Queensland: Challenges and Solutions". **Cartography 2002.**
Vol. 31(1): pp. 109-114.

Alpha, Tau Rho, and Robert Winter. 1971. "Quantitative Physiographic Method of Landform Portrayal".
Cartographica 1971. Vol. 8(2): pp. 126-136.

Anderson, R. Jerome. 1997. "Registration of Real Property in the Russian Federation – The View from the Cities". **GIS Law 1997.** Vol. 4(1): pp. 1-11.

Andersson, Sune. 1987. "The Swedish Land Data Bank." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 253-263.

Arentze, Theo, and H.J.P. Timmermans. 2003. "Measuring Impacts of Condition Variables in Rule-Based Models of Space-Time Choice Behavior: Method and Empirical Illustration". **Geographical Analysis 2003.** Vol. 35(1).

Arnold, L.M., and G.L. Wright. 2002. "Managing and Maintaining Cartographic Data: Contemporary Approaches and New Directions". **Cartography 2002.** Vol. 31(2): pp. 51-60.

Arrowsmith, Colin, and Mark Wilson. 1998. "Telecom Tectonics using Geographic Information Systems". **Carotgraphy 1998.** Vol. 27(1).

Arrowsmith, Colin, and W. Ntuwah. 2002. "Mapping Potential for Tourist Segments". **Cartography 2002.** Vol. 31(1): pp. 55-61.

Atkinson, Peter, Sally German, David Sear, and M.J. Clark. 2003. "Exploring the Relations Between Riverbank Erosion and Geomorphological Controls Using Geographically Weighted Logistic Regression". **Geographical Analysis 2003.** Vol. 35(1).

Baker, T. and S. White. 2003. "The Effects of G.I.S. on Students' Attitudes, Self-efficacy, and Achievement in Middle School Science Classrooms". **Journal of Geography**, 102(6): pp. 243-254.

Balodis, M. John, and Gita Pupedis. 1996. "Geographic Information in Pre-Literate Human Communities". **Cartography 1996.** Vol. 25(2).

Bandy, S., and D. Wallace. 2001. "GeoBASE, WA – Geoscientific Data On-Line in WA". **Cartography 2001.** Vol. 30(2).

Behrens, John O. 1995. "Monitoring Taxable Property Parcels Along the Information Highway". **GIS Law 1995.** Vol. 2(4): pp. 1-5.

Berry, Joseph K. 1987. "Fundamental Operations in Computer-Assisted May Analysis." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 119-136.

Boggs, G.S., J.L. Delaney, and A. Conacher. 2001. "Using Digital Spatial Data and GIS Tools to Examine Water Quality Variability in the Upper Talbot Brook Catchment, WA". **Cartography 2001.** Vol. 30(2).

Brassel, Kurt E., and Robert Weibel. 1988. "A Review and Conceptual Framework of Automated Map Generalization." **International Journal of Geographical Information Systems.** Vol. 2, Issue 3: pp. 229-244.

Broda, H. and R. Baxter. 2003. "Using GIS and GPS Technology as an Instructional Tool." **The Social Studies**, 94(4): pp. 158-160.

Brooks, William, and Kenneth Pinzke. 1971. "A Computer Program for Three-Dimensional Presentation of Geographic Data". **Cartographica 1971.** Vol. 8(2): pp. 110-125.

Brown, N., A. Kealy, and I. Williamson. 2002. "Stochastic Modeling of GPS Phase Observations for Improved Quality Estimation". **Cartography 2002.** Vol. 31(2): pp. 143-151.

Brown, Nigel J., and David A. Norris. 1988. "Early Applications of Geographical Information Systems at the Institute of Terrestrial Ecology." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 153-160.

Bryan, Brett A., and Jonathan M. Adams. 2001. "Quantitative and Qualitative Assessment of the Accuracy of Neurointerpolated Annual Mean Precipitation and Temperature Surfaces for China". **Cartography 2001.** Vol. 30(2).

Bryan, Brett, and Jonathan Adams. 2002. "Three-Dimensional Neurointerpolation of Annual Mean Precipitation and Temperature Surfaces for China". **Geographical Analysis 2002.** Vol. 34(2).

Burrage, Ken. 1997. "The Digital Cadastral Database for Papua, New Guinea: Designing a Sustainable DCDB in a Developing Country". **Cartography 1997.** Vol. 26(2).

Carroll, Damian, and Michael Morse. 1996. "A National Digital Elevation Model for Resource and Environmental Management". **Cartography 1996.** Vol. 25(2).

Cartwright, William. 1996. "Hardware, Software, and Staffing Requirements of Multimedia Cartography: An Update". **Cartography 1996.** Vol. 25(1).

Cartwright, William, David Fraser, Gita Pupedis, and Ferjan Ormeling. 1998. "Hypereducation: Prospects for Delivering Region-Wide Cartographic Science Programmes on the Web". **Cartography 1998.** Vol. 27(2).

Cartwright, William. 2002. "Building a Better Mousetrap: Considerations for the Provision of Appropriate New Media Artifacts for Enhancing the Access to and Use of Geospatial Information". **Cartography 2002.** Vol. 31(1): pp. 77-86.

Cartwright, William, and G. Heath. 2002. "Geography as Seen from the Window: Explorations About Viewpoint-Specific Images of Geography Defined by Tools of Visualization". **Cartography 2002.** Vol. 31(2): pp. 103-117.

Chhetri, P., and C. Arrowsmith. 2002. "Developing a Spatial Model of Probable Hiking Experience Through Natural Landscapes". **Cartography 2002.** Vol. 31(2): pp. 87-102.

Chong, Albert K. 1999. "Orthoimage Mapping Bases for Hybrid, Multimedia, and Virtual Environment GIS. **Cartography 1999.** Vol. 28(1).

Church, Richard L., and James R. Marston. 2003. "Measuring Accessibility for People with a Disability". **Geographical Analysis 2003.** Vol. 35(1).

Christman, Nicholas R. 1987. "Efficient Digitizing Through the Combination of Appropriate Hardware and Software for Error Detection and Editing." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 265-277.

Clark, James W. 1977. "Time-Distance Transformations of Transportation Networks". **Geographical Analysis 1977.** Vol. 9(2): pp. 195-205.

Cocks, K.D., P.A. Walker, and C.A. Parvey. 1988. "Evolution of a Continental-Scale Geographical Information System." **International Journal of Geographical Information Systems.** Vol. 2, Issue 3: pp. 263-280.

Congdon, P. 2002. "A Model for Mental Health Needs and Resourcing in Small Geographic Areas: A Multivariate Spatial Perspective". **Geographical Analysis 2002.** Vol. 34(2).

Coulter, Bob and Joseph Kerski. 2005. Using GIS to transform the mathematical landscape. Chapter 22 in **Technology-Supported Mathematical Learning Environments: 67th Yearbook of the National Council of Teachers of Mathematics**. Reston, VA: National Council of the Teachers of Mathematics. ISBN 0-87353-569-3.

Dangermond, Jack. 1993. "Sharing Government's Digital Geographic Information with the Public". **GIS Law 1993.** Vol. 1: pp. 19-21.

Dansby, H. Bishop. 1992. "A Survey and Analysis of State GIS Legislation". **GIS Law 1992.**

Vol. 1: pp. 7-13.

Dansby, H. Bishop. 1992. "Public Records and Government Liability". **GIS Law 1992.**
Vol. 1: pp. 8-13.

Dansby, H. Bishop. 1993. "Commentary: Selling Public GIS Data". **GIS Law 1993.**
Vol. 1(4): pp. 18-19.

Dansby, H. Bishop. 1993. "Public Records and Government Liability – Part II". **GIS Law 1993.**
Vol. 1: pp. 10-14.

Dansby, H. Bishop. 1994. "Freedom of Information at the Federal Level". **GIS Law 1994.**
Vol. 2(1): pp. 6-11.

Dansby, H. Bishop. 1994. "Privatization of the Dissemination of Governmental Information".
GIS Law 1994. Vol. 2(2): pp. 26-27.

Dawson, Brian, and Stephen Maughan. 1998. "A Cost-Effective Approach for Accurate Medium-Scale
Mapping in a Large-Scale Project: The Mid-West – Gascoyne Imagery Project". **Cartography 1998.**
Vol. 27(2).

Dean, W.G. 1970. "The Structure of Regional Atlases: An Essay on Communications".
Cartographica 1970. Vol. 7(1): pp. 48-60.

Deakin, R.E., S.C. Bird, and R.I. Grenfell. 2002. "The Centroid? Where Would you Like It to Be?".
Cartography 2002. Vol. 31(2): pp. 153-167.

Dickinson, Holly J. 1988. "The Economic Evaluation of Implementing a GIS." **International Journal
of Geographical Information Systems.** Vol. 2, Issue 4: pp. 307-327.

DiLibero, William A. 1995. "Obtaining and Providing Access to Spatial Data: Recent Experiences in
Massachusetts". **GIS Law 1995.** Vol. 2(3): pp. 16-21.

Dillehay, Bette H. 1993. "Access, Privacy and Electronic Information – Time for New Laws?".
GIS Law 1993. Vol. 1(4): pp. 1-7.

Dillehay, Bette H. 1995. "Government Information, Law and Technology". **GIS Law 1995.**
Vol. 3(1): pp. 1-20.

Douglas, David H., and Thomas K. Peucker. 1973. "Algorithms for the Reduction of the Number of
Points Required to Represent a Digitized Line or Its Caricature". **Cartographica 1973.**
Vol. 10(2): pp. 112-122.

Dunn, Matthew, and Robert Hickey. 1998. "The Effect of Slope Algorithms on Slope Estimates Within a
GIS". **Cartography 1998.** Vol. 27(1).

Eldred, Pamela. 1996. "Geographic Information Systems: Are We on the Right Road?".
Cartography 1996. Vol. 25(1).

Erik de Man, W.H. 1988. "Establishing a Geographical Information System in Relation to its Use: A
Process of Strategic Choices." **International Journal of Geographical Information Systems.**
Vol. 2, Issue 3: pp. 245-261.

Estes, John E., Kenneth C. McGwire, Gloria A. Fletcher, and Timothy W. Foresman. 1987. "Coordinating Hazardous Waste Management Activities Using Geographical Information Systems." **International Journal of Geographical Information Systems.** Vol. 1, Issue 4: pp. 359-377.

Evans, F.H., and P.A. Caccetta. 2000. "Broad-Scale Spatial Prediction of Areas at Risk from Dryland Salinity". **Cartography 2000.** Vol. 29(2).

Evelpidou, N. 2002. "GIS Database for the Geomorphological Study of Paros Island". **Cartography 2002.** Vol. 31(1): pp. 45-53.

Fairbairn, David. 1996. "Tertiary Education in Cartography: Serving the Geomatics Industry?". **Cartography 1996.** Vol. 25(2).

Featherstone, Will E., and Thomas R. Barrington. 1996. "A Microsoft Windows-Based Package to Transform Coordinates to the Geocentric Datum of Australia". **Cartography 1996.** Vol. 25(1).

Featherstone, Will E. 1997. "A Comparison of Existing Co-ordinate Transformation Models and Parameters in Australia". **Cartography 1997.** Vol. 26(1).

Featherstone, Will E., Dominic Galloway, Phil Goulding, and Bo-Gunnar Reit. 1999. "Transformation Between Australian Datums Using a Modified Transverse Mercator Projection". **Cartography 1999.** Vol. 28(1).

Feeney, Mary-Ellen F., Ian P. Williamson, and Ian D. Bishop. 2002. "The Role of Institutional Mechanisms in Spatial Data Infrastructure Development That Supports Decision-Making". **Cartography 2002.** Vol. 31(2): pp. 21-37.

Fischer, Manfred M., and Martin Reismann. 2002. "A Methodology for Neural Spatial Interaction Modeling". **Geographical Analysis 2002.** Vol. 34(3).

Found, W.C. 1970. "The Electronic Map-Coordinate Digitizer". **Cartographica 1970.** Vol. 7(2): pp. 131-136.

Furness, R. 2002. "Imagination and Innovation in Australian Cartography: Examining the Past to Chart Our Future". **Cartography 2002.** Vol. 31(2): pp. 1-10.

Gabrosek, John, and Noel Cressie. 2002. "The Effect on Attribute Prediction of Location Uncertainty in Spatial Data". **Geographical Analysis 2002.** Vol. 34(3).

Gahegan, Mark N., and Stuart A. Roberts. 1988. "An Intelligent, Object-Oriented Geographical Information System." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 101-110.

Gangemi, A.R., and F.R. Young. 2001. "Multimedia Mapping: A Special Purpose Pilot Project". **Cartography 2001.** Vol. 30(1).

Getis, Arthur, and Daniel Griffith. 2002. "Comparative Spatial Filtering in Regression Analysis". **Geographical Analysis 2002.** Vol. 34(2).

Godfrey, Brendan, Peter Holland, Graham Baker, and Bob Irwin. 1997. "Towards a Global SDI: The Contribution of the Permanent Committee on GIS Infrastructure for Asia and the Pacific". **Cartography 1997.** Vol. 26(2).

Gold, Christopher. 1988. "PAN Graphs: An Aid to GIS Analysis." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 29-41.

Gold, Christopher, and Sean Cormack. 1987. "Spacially Ordered Networks and Topographic Reconstruction." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 137-148.

Gong, Jianxin. 2002. "Clarifying the Standard Deviational Ellipse". **Geographical Analysis 2002.** Vol. 34(2).

Goodchild, Michael F. 1987. "A Spatial Analytical Perspective on Geographical Information Systems." **International Journal of Geographical Information Systems.** Vol. 1, Issue 4: pp. 327-334.

Goodchild, Michael F., and Brian R. Rizzo. 1987. "Performance Evaluation and Work-Load Estimation for Geographical Information Systems." **International Journal of Geographical Information Systems.** Vol. 1, Issue 1: pp. 67-76.

Graham, Stuart J. 1997. "Products Liability in GIS: Present Complexions and Future Directions". **GIS Law 1997.** Vol. 4(1): pp. 12-16.

Grant, Donald M., and Brigitte Krogh. 1995. "Partners in the Spatial Information Systems Industry – An 'Open Marriage' Between the Public and Private Sectors?". **GIS Law 1995.** Vol. 2(4): pp. 9-17.

Green, N.P.A. 1987. "Teach Yourself Geographical Information Systems: The Design, Creation, and Use of Demonstrators and Tutors." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 279-290.

Greenfield, Debra A., and Kay Macuil. 1994. "The Concerns about Proposed Changes to the California Public Records Act". **GIS Law 1994.** Vol. 2(2): pp. 11-12.

Greguras, Fred M., and Sandy J. Wong. 1995. "Software Licensing Flexibility Complements the Digital Age". **GIS Law 1995.** Vol. 2(3): pp. 22-26.

Grimshaw, David. 1988. "The Use of Land and Property Information Systems." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 57-65.

Guilhoto, Joaquim Jose Martins, Geoffrey Hewings, and Michael Sonis. 2002. "Productive Relations in the Northeast and the Rest-of-Brazil Regions in 1995: Decomposition and Synergy in Input-Output Systems". **Geographical Analysis 2002.** Vol. 34(1).

Halls, Ian W., and Ronald A. Furness. 1996. "Electronic Navigation Charting: An Australian Perspective". **Cartography 1996.** Vol. 25(1).

Halls, Ian W., Simon Wild, Phil O'Neil, and Ron Furness. 1997. "SEAFARER: A Very Modern Way if Going to Sea". **Cartography 1997.** Vol. 26(2).

Hardie, Andrew R. 1998. "The Development and Present State of Web-GIS". **Cartography 1998.** Vol. 27(2).

Harris, L.J. 1971. "An Approach to Automatic Cartography for Topographic Mapping in Canada". **Cartographica 1971.** Vol. 8(2): pp. 90-95.

Harris, Lewis. 1972. "Automated Cartography in Federal Mapping in Canada". **Cartographica 1972.** Vol. 9(1): pp. 50-60.

Hassan, M.A., S.J. Snunu, and M.M. Shaweesh. 2003. "Automatic Mobile Communications Network Planning Using Geographical Information Systems". **Cartography 2003.** Vol. 32(2).

Hayles, K., and R. Grenfell. 2002. "Data Integration: An Application in Rural Property Evaluation". **Cartography 2002.** Vol. 31(2): pp. 39-50.

Hendrix, Steven E. 1997. "Land Tenure in Guatemala". **GIS Law 1997.** Vol. 3(4): pp. 7-15.

Hickey, Robert J., David M. Bush, and Rachel S. Boulay. 1999. "GIS Applications in Coastal Property Risk Assessment". **Cartography 1999.** Vol. 28(2).

Hickey, Robert J. 2000. "Slope Angle and Slope Length Solutions for GIS". **Cartography 2000.** Vol. 29(1).

Hunter, Gary J. 1988. "Non-Current Data and Geographical Information System: A Case for Data Retention." **International Journal of Geographical Information Systems.** Vol. 2, Issue 3: pp. 281-286.

Hydrographic Sciences Australia Pty Ltd. 1998. "Raster Data Centre: Electronic Chart Processing for the Hydrographic Service, RAN". **Cartography 1998.** Vol. 27(2).

Ibbs, T.J., and A. Stevens. 1988. "Quadtree Storage of Vector Data." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 43-56.

Ikhuoria, Isi A., Odion M. Irabor. 1998. "Environmental Knowing with Tactile Maps". **Cartography 1998.** Vol. 27(1).

Ikhuoria, Isi A., and S.O. Ogedegbe. 1999. "Typology, Functions and Production Technology of Cartographic Products in a Developing Country: The Case of Nigeria". **Cartography 1999.** Vol. 28(2).

Jiang, Bin. 1996. "Cartographic Visualization: Analytical and Communication Tools". **Cartography 1996.** Vol. 25(2).

Jiang, Bin. 1998. "Visualisation of Fuzzy Boundaries of Geographic Objects". **Cartography 1998.** Vol. 27(2).

Johnson, Jeff P., and H. Bishop Dansby. 1995. "Liability in Private Sector Geographic Information Systems". **GIS Law 1995.** Vol. 2(4): pp. 18-24.

Johnston, Ben, and William Cartwright. 2000. "A Historical Overview of Games and the Spatial Sciences Within the Learning Environment". **Cartography 2000.** Vol. 29(2).

Johnston, Ronald John, Michael Poulsen, and James Forrest. 2002. "Rethinking the Analysis of Ethnic Residential Patterns: Segregation, Isolation, or Concentration Thresholds in Auckland, New Zealand?". **Geographical Analysis 2002.** Vol. 34(3).

Johnson, Ronald John, and C.J. Pattie. 2003. "Evaluating an Entropy-Maximizing Solution to the Ecological Inference Problem: Split-Ticket Voting in New Zealand, 1999". **Geographical Analysis 2003.** Vol. 35(1).

Kerski, Joseph J. 2003. "The Implementation and Effectiveness of Geographic Information Systems Technology in Secondary Education". **Journal of Geography**, 102(3): pp. 128-137.

Kerski, Joseph J. 2004. The global GIS project: Spatial analysis for the world. **Interaction** 32(3). Victoria, Australia: Geography Teachers Association of Victoria.

Kerski, Joseph J. 2004. GIS for Citizenship Education, in **Geography and Citizenship Education: Research Perspectives**. Edited by Ashley Kent and Andrew Powell. Published for the International Geographical Union Committee on Geographic Education by University of London Institute of Education. ISBN 0-9539850-4-0.

Kirby, Jon, and William Featherstone. 2001. "Anomalously Large Gradients in Version 1 of the Geodata 9 Second Digital Elevation Model of Australia, and Their Effects on Gravimetric Terrain Corrections". **Cartography 2001.** Vol. 30(1).

Klawe, Janusz. 1973. "Population Mapping". **Cartographica 1973.** Vol. 10(1): pp. 44-50.

Koehne, Joanne, John Howard. 2001. "PropertyAssist: A New Approach to the Delivery of Property Information to South Australia". **Cartography 2001.** Vol. 30(1).

Kubo, Sachio. 1987. "The Development of Geographical Information Systems in Japan." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 243-252.

Lai, Poh-Chin. 1988. "Resource Use in Manual Digitization: A Case Study of the Patuxent Basin Geographical Information System Database." **International Journal of Geographical Information Systems.** Vol. 2, Issue 4: pp. 329-345.

Laituri, Melinda, and Sophia Lynn. 2001. "Graduate students plus Grade School (K-12) plus Geography Standards plus GIS = Great Success!" *Proceedings of the 1999 ESRI User Conference.* http://gis.esri.com/library/userconf/proc99/proceed/papers/pap324/p324.htm
Student projects are on:
http://www.cnr.colostate.edu/avprojects/csu-psd

Lamble, P., and D. Fraser. 2002. "Creation of a GIS-Based Predictive Model for Groundwater in the Murray Valley Irrigation Region (NSW)". **Cartography 2002.** Vol. 31(1): pp. 33-44.

Lawford, G.J., and E.G. Masters. 2002. "Fractals and the Cartographic Line". **Cartography 2002.** Vol. 31(2): pp. 61-72.

Lin, H. 1997. "STIN Operation: A Study on Searching for Spatiotemporal Measures". **Cartography 1997.** Vol. 26(1).

Linders, James. 1972. "The Interchange of Computer Data". **Cartographica 1972.** Vol. 9(1): pp. 61-65.

Lloyd, W. 2001. "Integrating GIS into the Undergraduate Learning Environment". **Journal of Geography**, 100(5): pp. 158-163.

Malanson, George Patrick. 2002. "Spatial Representations of Habitat in Competition-Colonization Models". **Geographical Analysis 2002.** Vol. 34(2).

Manson, Steven, Samuel Ratick, and Andrew Robert Solow. 2002. "Decision Making and Uncertainty: Bayesian Analysis of Potential Flood Heights". **Geographical Analysis 2002.** Vol. 34(2).

Mason, D., and J. Townshend. 1988. "Research Related to Geographical Information Systems at the Natural Environment Research Council's Unit for Thematic Information Systems." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 121-141.

Mason, D., D. Carr, A. Cross, D. Hogg, D. Lawrence, M. Petrou, and A. Tailor. 1988. "The Use of Digital Map Data in the Segmentation and Classification of Remotely-Sensed Images." **International Journal of Geographical Information Systems.** Vol. 2, Issue 3: pp. 195-215.

Masser, Ian. 1988. "The Regional Research Laboratory Initiative: A Progress Report." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 11-22.

McCullagh, Michael. 1981. "Creation of Smooth Contours over Irregularly Distributed Data Using Local Surface Patches". **Geographical Analysis 1981.** Vol. 13(1): pp. 51-63.

McDougall, K., F.R. Young, and A. Apan. 2003. "Operational Infrastructure for Quality Distance and Online Geospatial Programs". **Cartography 2003.** Vol. 32(1).

McKay, G.A., and M.K. Thomas. 1971. "Mapping of Climatological Elements". **Cartographica 1971.** Vol. 8(1): pp. 27-40.

Medda, Francesca, Peter Nijkamp, and Piet Rietveld. 2003. "Urban Land Use for Transport Systems and City Shapes". **Geographical Analysis 2003.** Vol. 35(1).

Medynska-Gulij, B. 2003. "The Effect of Cartographic Content on Tourist Map Users". **Cartography 2003.** Vol. 32(2).

Meneghello, Mark. 2001. "XML (eXtensible Markup Language): The New Language of Data Exchange". **Cartography 2001.** Vol. 30(2).

Metternicht, Graciela I. 1999. "Current Status and Future Perspectives of Radar Remote Sensing for Cartographic Applications". **Cartography 1999.** Vol. 28(1).

Miller, S., and G. Pupedis. 2002. "Spatial Interface Design for the Web – A Question of Usability". **Cartography 2002.** Vol. 31(2): pp. 119-134.

Milrad, Louis H. 1992. "Contracting for GIS Technology in the Public Sector (Part 1)". **GIS Law 1992.** Vol. 1: pp. 14-15.

Milrad, Louis H. 1992. "Contracting for GIS Technology in the Public Sector (Part 2)". **GIS Law 1992.** Vol. 1: pp. 15-17.

Milrad, Louis H. 1993. "Contracting for a GIS System – The Purchaser's Perspective". **GIS Law 1993.** Vol. 1: pp. 15-18.

Milrad, Louis H. 1994. "Database Ownership, Canadian Copywrite Principles and Multiparticipant GIS Projects". **GIS Law 1994.** Vol. 2(2): pp. 7-10.

Milton, L.E. 1993. "Management of Legal Issues within Operations". **GIS Law 1993.** Vol. 1: pp. 8-13.

Miron, John. 2002. "Loschian Spatial Competition in an Emerging Retail Industry". **Geographical Analysis 2002.** Vol. 34(1).

Mitchell, Kirk. 2000. "Critical Success Factors When Publishing Internet Mapping Services". **Cartography 2000.** Vol. 29(1).

Monmonier, Mark. 1969. "Geographic Brushing: Enhancing Exploratory Analysis of the Scatterplot Matrix". **Geographical Analysis 1969.** Vol. 21(1): pp. 81-84.

Monmonier, Mark. 1973. "Analogs Between Class-Interval Selection and Location-Allocation Models". **Cartographica 1973.** Vol. 10(2): pp. 123-131.

Monmonier, Mark. 1994. "ZIP Codes, Data Compatibility, and Environmental Racism". **GIS Law 1994.** Vol. 2(1): pp. 4-5.

Nag, Prithvish. 1987. "A Proposed Base for a Geographical Information System for India." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 181-187.

Nairn, Alister, and Bob Irwin. 1997. "The Australian Spatial Data Intrastructure: Its Current Status and Future Directions". **Cartography 1997.** Vol. 26(1).

Nicholson, N.L. 1970. "Canada in Six Atlases". **Cartographica 1970.** Vol. 7(2): pp. 126-130.

Northon, C. 2003. "Integrating Geographic Information System (GIS) into Secondary Education: A Community-Based Learning Experience". Available in ERIC database, ED478822.

Oldakowski, R. 2001. "Activities to Develop a Spatial Perspective Among Students in Introductory Geography Courses". **Journal of Geography**, 100(6): pp. 243-250.

Oliver, J.G. 1997. "A Transformation Procedure for Digitising Defense Mapping Agency Air Navigation Charts". **Cartography 1997.** Vol. 26(1).

Olomo, R.O. 2003. "The Current Trend of Mapping in Nigeria". **Cartography 2003.** Vol. 32(1).

Onsrud, Harlan J. 1992. "In Support of Cost Recovery for Publicly Held Geographic Information". **GIS Law 1992.** Vol. 1: pp. 1-7.

Onsrud, Harlan J. 1992. "In Support of Open Access for Public Held Geographic Information". **GIS Law 1992.** Vol. 1: pp. 3-6.

Onsrud, Harlan J. 1993. "Evidence Generated from GIS". **GIS Law 1993.** Vol. 1: pp. 1-8.

Openshaw, Stan, and Helen Mounsey. 1987. "Geographic Information Systems and the BBC's Domesday Interactive Videodisk." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 173-179.

Openshaw, Stan, Martin Charlton, Colin Wymer, and Alan Craft. 1987. "A Mark 1 Geographical Analysis Machine for the Automated Analysis of Point Data Sets." **International Journal of Geographical Information Systems.** Vol. 1, Issue 4: pp. 335-358.

Overton, I., and J. Lawley. 2001. "MapLibrarian – Map Index Querying". **Cartography 2001.** Vol. 30(2).

Pace, Kelley, and James LeSage. 2002. "Semiparametric Maximum Likelihood Estimates of Spatial Dependence". **Geographical Analysis 2002.** Vol. 34(1).

Papadopoulos, K. 2003. "Automatic Transcription of Geographic Names: A Cartographic Implementation". **Cartography 2003.** Vol. 32(1).

Parker, S., and C. Verardo. 2001. "Broken Hill Mapping – A Cartographic Milestone". **Cartography 2001.** Vol. 30(2).

Patterson, M., K. Reeve, and D. Page. 2003. "Integrating Geographic Information Systems into the Secondary Curricula". **Journal of Geography**, 102(6): pp. 275-281.

Peters, N.H. 2003. "Eredia Map 1602 Ouro and Luca Antara Islands: A Case for Determining that Ouro and Luca Antara Islands Shown on the Eredia Map are, Respectively, Melville and Bathurst Islands of the Tiwi Islands of Australia". **Cartography 2003.** Vol. 32(2).

Peterson, Barbara A. 1994. "Access to Electronic Records". **GIS Law 1994.** Vol. 2(2): pp. 1-6.

Pereira, Gary. 2002. "A Typology of Spatial and Temporal Scale Relations". **Geographical Analysis 2002.** Vol. 34(1).

Prescott, Dorothy F., and Alan D. Jones. 1996. "The Digital Dilemma: The Role of Australian Libraries in Accessing Digital Spatial Data". **Cartography 1996.** Vol. 25(1).

Pudmenzky, Alex. 1997. "Technological Enhancements to Digital Cadastre Management at the Queensland Department of Natural Resources". **Cartography 1997.** Vol. 26(2).

Pullar, David, Pramod Sharma, and Geoff McDonald. 1998. "A Model for Education in Spatial Information Technologies". **Cartography 1998.** Vol. 27(1).

Pullar, David. 2002. Using VRML to Visualise Landscape Change and Process". **Cartography 2002.** Vol. 31(1): pp. 1-9.

Pun-Chang, L.S.C., Z. Li, and W. Gao. 2003. "Integration of Generalisation Operators for Vegetation Maps Based on Bio-Geographical Principles". **Cartography 2003.** Vol. 32(2).

Radio, Edward. 1997. "Legal Issues in Cryptography". **GIS Law 1997.** Vol. 4(2): pp. 1-18.

Rajabifard, Abbas, Francisco Escobar, and Ian P. Williamson. 2000. "Hierarchical Spatial Reasoning Applied to Spatial Data Infrastructures". **Cartography 2000.** Vol. 29(2).

Rajabifard, Abbas, Mary-Ellen Feeney, and Ian P. Williamson. 2002. "The Cultural Aspects of Sharing and Dynamic Partnerships Within an SDI Hierarchy". **Cartography 2002.** Vol. 31(1): pp. 21-32.

Rangzan, K., S. Ahmad Ali, and S. Pirasteh. 2003. "Use of Digital Elevation Model for Study of Drainage Morphometry and Identification Stability and Saturation Zones in Relations to Landslide Assessments in Parts of the Shahbazan Area, SW Iran". **Cartography 2003.** Vol. 32(2).

Raveneau, Jean. 1970. "La Cartographie Thematique: Technique Auxiliaire du Discipline Autonome? (Thematic Cartography: Auxiliary Technique or Autonomous Discipline?)". **Cartographica 1970.** Vol. 7(1): pp. 61-66.

Rhind, David, and N. Green. 1988. "Design of a Geographical Information System for a Heterogenous Scientific Community." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 171-189.

Rhind, David. 1973. "Generalisation and Realism Within Automated Cartographic Systems". **Cartographica 1973.** Vol. 10(1): pp. 51-62.

Rhind, David. 1988. "A GIS Research Agenda." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 23-28.

Rhind, David. 1987. "Recent Developments in Geographical Information Systems in the UK." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 229-241.

Robinson, T.P., and G. Metternicht. 2003. "A Comparison of Inverse Distance Weighting and Ordinary Kringing for Characterising Within Paddock Spatial Variability of Soil Properties in Western Australia". **Cartography 2003.** Vol. 32(1).

Saalfeld, Alan. 1988. "Conflation: Automated Map Compilation." **International Journal of Geographical Information Systems.** Vol. 2, Issue 3: pp. 217-228.

Saalfeld, Alan. 1987. "It Doesn't Make Me Nearly as CROSS: Some Advantages of the Point-Vector Representation of Line Segments in Automated Cartography." **International Journal of Geographical Information Systems.** Vol. 1, Issue 4: pp. 379-386.

Salichtchev, K.A. 1973. "Some Reflections on the Subject and Method of Cartography After the Sixth International Cartographic Conference". **Cartographica 1973.** Vol. 10(2): pp. 106-111.

Sandison, Dan, Robert J. Hickey, Graeme Wright, and Graciela Metternicht. 1998. "Four-Dimensional Visualisation of Smog in Perth". **Cartography 1998.** Vol. 27(2).

Sanzogni, Louis. 2000. "The Cartographic Triangulation Problem: Real-Time Solutions Using an Adaptive System". **Cartography 2000.** Vol. 29(2).

Sebert, L.M. 1970. "The History of the 1:250,000 Map of Canada". **Cartographica 1970.** Vol. 7(1): pp. 15-26.

Shaw, D., W. Cartwright, and C. Arrowsmith. 2002. "Telematics: Identifying the New Geographies of Digital Communication". **Cartography 2002.** Vol. 31(2): pp. 73-86.

Shupeng, Chen. 1987. "Geographical Data Handling and GIS in China." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 219-228.

Simon, Gary A. 2002. "Map Neighbor Counts". **Geographical Analysis 2002.** Vol. 34(4).

Singh, Surendra. 2002. "Optimizing the Spatial Structure of the Agricultural Production Function". **Geographical Analysis 2002.** Vol. 34(3).

Sinha, Anil K., and Thomas C. Waugh. 1988. "Aspects of the Implementation of the GEOVIEW Design." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 91-99.

Sivertun, Ake, Lorin Reinelt, and Reinhold Castensson. 1988. "A GIS Method to Aid in Non-Point Source Critical Area Analysis." **International Journal of Geographical Information Systems.** Vol. 2, Issue 4: pp. 365-378.

Smith, C., P. Aberline, and C. Bellman. 2002. "Investigation and Prototyping of Emerging Web Standards for Web GIS". **Cartography 2002.** Vol. 31(1): pp. 63-76.

Smith, Terence, Donnal Peuquet, Sudhakar Menon, and Pankaj Agarwal. 1987. "KBGIS-II: A Knowledge-Based Geographical Information System." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 149-172.

Smith, Terence, Sudhakar Menon, Jeffrey L. Star, and John E. Estes. 1987. "Requirements and Principles for the Implementation and Construction of Large-Scale Geographic Information Systems." **International Journal of Geographical Information Systems.** Vol. 1, Issue 1: pp. 13-31.

Sohn, Jungyui, Tschangho John Kim, and Geoffrey Hewings. 2002. "Information Technology Impacts on Urban Spatial Structure in the Chicago Region". **Geographical Analysis 2002.** Vol. 34(4).

Spencer, Ray D. 1997. "Remote Sensing and GIS Applications in the US Forest Service". **Cartography 1997.** Vol. 26(2).

Stevenson, Jack, and William Cartwright. 2000. "A Toolbox for Publishing Maps on the World Wide Web". **Cartography 2000.** Vol. 29(2).

Stiebel, L., and C. Goldsworthy. 2003. "A Suitable Match: Marrying Technology to the Past in the Thomas Baines and the 'Great Map' CD-ROM Project". **Cartography 2003.** Vol. 32(2).

Su, Bo. 1996. "A Generalised Frame for Cartographic Knowledge Representation". **Cartography 1996.** Vol. 25(2).

Su, Bo., Graham Lodwick, and Zhilin Li. 1997. "Morphological Transformation for the Elimination of Area Features in Digital Map Generalization". **Cartography 1997.** Vol. 26(2).

Sullivan, K., J. Crews and D. Beed. 2003. "Connecting K-12 students locally, regionally, and beyond using remotely sensed imagery and thematic events". *Proceedings of the 2003 Hawaii International Conference on Education.* Accessed at http://www.hiceducation.org/Edu_Proceedings on 13 Aug. 2004.

Sweeney, Stuart H., and Kevin J. Konty. 2002. "Population Forecasting with Nonstationary Multiregional Growth Matrices". **Geographical Analysis 2002.** Vol. 34(4).

Tagashira, Naoto, and Atsuyuki Okabe. 2002. "The Modifiable Areal Unit Problem in a Regression Model Whose Independent Variable is a Distance from a Predetermined Point". **Geographical Analysis 2002.** Vol. 34(1).

Tiefelsdorf, Michael. 2002. "The Saddlepoint Approximation of Moran's I's and Local Moran's I(sub i)'s Reference Distributions and Their Numerical Evaluation". **Geographical Analysis 2002.** Vol. 34(3).

Tobler, Waldo R. 1973. "Choropleth Maps without Class Intervals?". **Geographical Analysis 1973.** Vol. 5.

Tomlinson, Roger F. 1987. "Current and Potential Uses of Geographical Information Systems: The North American Experience." **International Journal of Geographical Information Systems.** Vol. 1, Issue 3: pp. 203-218.

Tsakiri, Maria, and Mike Stewart. 1998. "A Future Vehicle Positioning System for Data Capture in the Urban Canyon". **Cartography 1998.** Vol. 27(1).

Turner, Howard. 1988. "Real-Time Data Collection Quality Assurance Models in Three-Dimensional Spatial Information Systems." **International Journal of Geographical Information Systems.** Vol. 2, Issue 4: pp. 295-306.

Uhlir, Paul F. 1995. "From Spacecraft to Statecraft: The Role of Earth Observation Satellites in the Development and Verification of International Environmental Protection Agreements". **GIS Law 1995.** Vol. 2(3): pp. 1-15.

Underwood, Garry A., and Michael L. Roderick. 1997. "Spatio-Temporal Visualisation of Inter-Annual Variations in Rainfall: The Rainfall Ribbon Approach". **Cartography 1997.** Vol. 26(2).

URISA/IAAO. 1998. **Integrating GIS & CAMA: Selected Papers for Professionals in Assessment, Appraisal, Land Records, and Information Technology.** URISA, Park Ridge, Illinois.

Van Remortel, Rick D., Matthew E. Hamilton, and Robert J. Hickey. 2001. "Estimating the LS Factor for RUSLE Through Iterative Slope Length Processing of Digital Elevation Data Within ArcInfo Grid". **Cartography 2001.** Vol. 30(1).

Vassilopoulos, A., and N. Evelpidou. 2003. "Internet GIS Development for Educational Purposes". **Cartography 2003.** Vol. 32(1).

Von Roessel, Jan W. 1987. "Design of Spatial Data Structure Using the Relational Normal Forms." **International Journal of Geographical Information Systems.** Vol. 1, Issue 1: pp. 33-50.

Wadge, G. 1988. "The Potential Modeling of Gravity Flows and Slope Instabilities." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 143-152.

Walker, P.A., and D.M. Moore. 1988. "SIMPLE: An Inductive Modeling and Mapping Tool for Spatially-Oriented Data." **International Journal of Geographical Information Systems.** Vol. 2, Issue 4: pp. 347-363.

Walker, Todd, William Cartwright, Suzette Miller. 2000. "An Investigation into the Methodologies of Producing a Web-Based Multimedia Atlas of Victoria". **Cartography 2000.** Vol. 29(2).

Wang, Donggen, and Jiukun Li. 2002. "Handling Large Numbers of Attributes and/or Levels in Conjoint Experiments". **Geographical Analysis 2002.** Vol. 34(4).

Wang, G. 2000. "Spatial Prediction and Uncertainty Analysis of Topographic Factors for the Revised Universal Soil Loss Equation". **Journal of Soil and Water Conservation,** e-doc, Volume 55, Issue 3: p. 374.

Warnest, M., E.F. Feeney, A. Rajabifard, and I.P. Williamson. 2002. "Fundamental Partnerships Driving Spatial Data Infrastructure Development Within Australia". **Cartography 2002.** Vol. 31(2): pp. 11-20.

Waugh, T.C., and R.G. Healey. 1987. "The GEOVIEW Design: A Relational Data Base Approach to Geographic Data Handling." **International Journal of Geographical Information Systems.** Vol. 1, Issue 2: pp. 101-118.

Webster, Chris. 1988. "Disaggregated GIS Architecture: Lessons from Recent Developments in Multi-Site Database Management Systems." **International Journal of Geographical Information Systems.** Vol. 2, Issue 1: pp. 67-79.

Weiss, Peter N. 1994. "Security Requirements and Evidentiary Issues in the Interchange of Electronic Documents: Steps Toward Developing a Security Policy". **GIS Law 1994.** Vol. 2(2): pp. 14-21.

Weiter, Hana, and Graciela Metternicht. 2002. "Exploring the Feasibility of a Web-Based System for Farmers Access to Current Agricultural Research Information in Western Australia". **Cartography 2002.** Vol. 31(1): pp. 87-98.

West, B. 2003. "Student Attitudes and the Impact of GIS on Thinking Skills and Motivation". **Journal of Geography**, 102(6): pp. 267-274.

Westcott, Bruce. 1994. "Vermont Tackles the Fee Question". **GIS Law 1994.** Vol. 2(2): pp. 22-24.

Westermeier, J.T. 1997. "New Federal Criminal Liability for Theft of Trade Secrets". **GIS Law 1997.** Vol. 3(4): pp. 4-6.

Westfall, John. 1970. "The Ecumenical Projection". **Cartographica 1970.** Vol. 7(1): pp. 42-47.

Wiegand, P. 2003. "School Students' Understanding of Chloropleth Maps: Evidence From Collaborative Mapmaking Using GIS". **Journal of Geography**, 102(6): pp. 234-242.

Wilder, A., J. Brinkerhoff, and T. Higgens. 2003. "Geographic Information Technologies + Project-Based Science: A Contextualized Professional Development Approach". **Journal of Geography**, 102(6): pp. 255-266.

Wigglesworth, J. 2003. "What is the Best Route? Route-Finding Strategies of Middle School Students Using GIS". **Journal of Geography**, 102(6): pp. 282-291.

Wiggins, J.C., R.P. Hartley, M.J. Higgins, and R.J. Whittaker. 1987. "Computing Aspects of a Large Geographic Information System for the European Community." **International Journal for Geographical Information Systems.** Vol. 1, Issue 1: pp. 77-87.

Wilkie, J., J.L. Delaney, and A.J. Conacher. 2001. "Weed Infestation Risk Modeling and Mapping: A Case Study Involving Watsonia Bulbillifera in Kalamunda National Park, WA". **Cartography 2001.** Vol. 30(1).

Williams, Justin C. 2002. "A Zero-One Programming Model for Contiguous Land Acquisition". **Geographical Analysis 2002.** Vol. 34(4).

Williams, Robert J. 1996. "Cartography: A New Era has Begun". **Cartography 1996.** Vol. 25(1).

Wise, Stephen. 1988. "Using Contents Addressable Filestore for Rapid Access t a Large Cartographic Data Set." **International Journal of Geographical Information Systems.** Vol. 2, Issue 2: pp. 111-120.

Wolf, David B. 1993. "New Landscape in the Copywrite Protection for Maps: Mason v. Montgomery Data, Inc.". **GIS Law 1993.** Vol. 1(4): pp. 14-17.

Wolf-Dieter, Rase. 1987. "The Evolution of a Graduated Symbol Software Package in a Changing Graphics Environment." **International Journal of Geographical Information Systems.** Vol. 1, Issue 1: pp. 51-65.

Xiao, B., and K. Zhang. 2002. "Handheld GPS and Mobile Mapping". **Cartography 2002.** Vol. 31(1): pp. 99-108.

Zhang, C., W. Li, M.J. Day, and Z.R. Peng. 2003. "GML-Based Interoperable Geographical Databases". **Cartography 2003.** Vol. 32(2).