

Archaeology and GIS - Bibliography

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Core textbooks on archaeological-GIS

Conolly, J. and Lake, M. 2006. *Geographical Information Systems in archaeology*. Cambridge: Cambridge University Press.

Wheatley, D.W. and Gillings, M. 2002. *Spatial technology and archaeology: a guide to the archaeological applications of GIS*. London: Taylor & Francis.

Edited volumes dealing with GIS and archaeology

Aldenderfer, M. and Maschner, H.D.G. (eds). 1996. *Anthropology, space and Geographical Information Systems*. New York: OUP.

Allen, K.M.S., Green, S.W. and Zubrow, E.B.W. (eds). 1990. *Interpreting space: GIS and archaeology*. New York: Taylor and Francis.

Garcia-Sanjuan, L. and Wheatley, D. (eds). 2002. *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla.

Johnson, I. And North, M. 1997. *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5. [CD-ROM]

Lock, G. (ed.). 2000. *Beyond the map: archaeology and spatial technologies*. Amsterdam: IOS Press.

Lock, G. and Stančić, Z. (eds). 1995. *Archaeology and Geographic Information Systems: a European perspective*. London: Taylor & Francis.

Maschner, H. 1996. *New methods for old problems: geographic information systems in modern archaeological research*. Carbondale: Center for Archaeological Investigations.

Peterson, J. (ed.). 1998. *The use of Geographic Information Systems in the study of ancient landscapes and features related to ancient land use*. Brussels: European Commission

Slapsak, B. (ed.). 2001. *On the good use of geographic information systems in archaeological landscape studies : proceedings of the COST G2 WG2 round table Ljubljana, 18-20 December 1998*. Brussels: European Commission

General discussions of spatial analysis and archaeology

Abler, R., Adams, J.S. and Gould, P. 1972. *Spatial organization*. London: Prentice-Hall

Bailey, T.C. and Gatrell, A.C. 1995. *Interactive spatial data analysis*. New York, Longmans.

Clarke, D.L. (ed.). 1977. *Spatial archaeology*. London: Academic Press.

Hodder, I. (ed.). 1978. *The spatial organisation of culture*. London: Duckworth.

Kroll, E.M. and Douglas-Price, T. (eds). 1991. *The interpretation of archaeological spatial patterning*. New York: Plenum Press.

Lock, G. 2003. *Using computers in archaeology*. London: Routledge.

Neustupny, E. (ed.). 1998. *Space in prehistoric Bohemia*. Prague: Institute of Archaeology.

Paynter, R. 1982. *Models of spatial inequality: settlement patterns in historical archaeology*. New York: Academic Press.

Introductory and general discussions on GIS

- Aldenderfer, M. 1996. Introduction. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 3-18.
- Allen, K., Green, S. and Zubrow, E. 1990. Interpreting Space. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 383-386.
- Baena, J., Alvarez-Sanchis, J., Bermudez, J., Blasco, C. and Sanchez Moreno, E. 1999. Digital cartographic databases and their application to archaeology. In J. Barcelo., I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 137-144.
- Burrough, P.A. 1986. *Principles of Geographical Information Systems for land resources assessment*. Oxford: Clarendon Press.
- Burrough, P. & McDonnell, R. 1998. *Principles of Geographic Information Systems*. Oxford: Oxford University Press.
- Chrisman, N. 2001. *Exploring Geographic Information Systems*. Chichester: Wiley.
- DeMers, M.N. 1997. *Fundamentals of Geographic Information Systems*. New York, John Wiley & Sons.
- Fisher, P. 1999. Geographical Information Systems: today and tomorrow? In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 5-12.
- Gaffney, V. and Stančić, Z. 1991. *GIS approaches to regional analysis: a case study of the island of Hvar*. Oxford: Oxbow.
- Gillings, M. 2001. Geographical Information Systems in archaeology. In D.R. Brothwell and A.M. Pollard (eds) *Introduction to archaeological sciences*: 671-683. London: John Wiley & Sons
- Gillings, M. and Wise, A. (eds). 1999. *Archaeology Data Service: GIS guide to good practice*. Oxford: Oxbow
- Gillings, M. and Mattingly, D. 1999. Introduction. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 1-4.
- Harris, T. and Lock, G. 1990. The diffusion of a new technology: a perspective on the adoption of Geographic Information Systems within UK archaeology. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 33-53.
- Heywood, I., Cornelius, S., and Carver, S. 1998. *An introduction to Geographical Information Systems*. New York, Longmans.
- Johnson, I. 1997. GIS application in archaeology: a short course. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Jones, C. 1997. *Geographical Information Systems and computer cartography*. Harlow: Pearson.
- Kraak, M. & Ormeling, F. 2002. *Cartography: visualization of spatial data*. Harlow: Pearson

Kvamme, K. 1992. Geographic Information Systems and archaeology. In G. Lock and J. Moffett (eds). *Computer Applications and Quantitative Methods in Archaeology 1991*. Oxford: BAR S577: 77-84.

Kvamme, K. 1995. A view from across the water: the North American experience in archaeological GIS. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 1-14.

Kvamme, K. 1999. Recent directions and developments in Geographical Information Systems. *Journal of Archaeological Research*, 7(2):153-201.

Kvamme, K. 2000. Geographical Information Systems. In L. Ellis (ed.). *Archaeological method and theory: an encyclopaedia*. Garland Publishing, New York, pp. 244-251.

Kvamme, K.L. and Kohler, T.A. 1988. Geographical Information Systems: technical aids for data collection, analysis and display. In J.W. Judge and L. Sebastian (eds) *Quantifying the present and predicting the past: Theory, Method and Application of Archaeological Predictive Modelling*. U.S Government Printing Office: Washington

Laurini, R. & Thompson, D. 1992. *Fundamentals of spatial information systems*. London: Academic Press.

Lock, G and Harris T. 1992. Visualizing spatial data: the importance of Geographic Information Systems. In P. Reilly and S. Rahtz (eds). *Archaeology and the Information Age*. London: Routledge.

Marble, D. 1990. The potential methodological impact of geographic information systems on the social sciences. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 9-21.

Maschner, H. 1996. Geographic Information Systems in archaeology. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 1-21.

Monmonier, M. 1996. *How to lie with maps*. Chicago: University of Chicago Press.

Savage, S. 1990. GIS in archaeological research. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 22-32.

Worboys, M. & Duckham, M. 2004. *GIS: a computing perspective*. London: CRC Press.

GIS and archaeological theory

Barcelo J.A. and Pollares, M. 1996. A critique of GIS in Archaeology. From visual seduction to spatial analysis. *Archaeologia e Calcolatorio* 7: 313-326.

Church, T., Brandon, J. and Burgett, G. 2000. GIS applications in archaeology: method in search of theory. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 135-155.

Claxton, J. 1995. Future enhancements to GIS: implications for archaeological theory. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 335-348.

Constantinidis, D. 2004. The interconnectivity of cultural sites: sights and sounds across a landscape. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Crumley, C. and Marquardt, W. 1990. Landscape: a unifying concept in regional analysis. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 73-79.

Evans, T.L. and Daly, P. 2006. *Digital archaeology. Bridging method and theory*. Abingdon: Routledge.

Gaffney, V. and van Leusen, M. 1995. Postscript - GIS, environmental determinism and archaeology. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 367-382.

Gaffney, V., Stančič, Z. and Watson, H. 1995. Moving from catchments to cognition: tentative steps towards a larger archaeological context for GIS. *Scottish Archaeological Review* 10.

Gascoigne, J. (accessed September 2004). GIS as the 'Aleph'? The Nature of Geographical Information Systems and Consequent Implications.

<http://www.geog.leeds.ac.uk/people/m.blake/magis94/gisig/exhogg/exhogg.htm>

Gillings, M. 1998. Embracing uncertainty and challenging dualism in the GIS-based study of a palaeo flood-plain. *European Journal of Archaeology* 1/1

Gillings, M. and Goodrick, G.T. 1996. Sensuous and reflexive GIS: exploring visualisation and VRML. *Internet Archaeology* 1.

Harris, T. and Lock, G. 1995. Toward an evaluation of GIS in European archaeology: the past, present and future of theory and applications. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 349-366.

Hartley, R.J., and Wolley Vawser, A.M. 2007. Human modifications to the landscape of Hunt and Sheep Mountains, Wyoming: exploring socially constructed space. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Kamermans, H. 2002. The answer is blowin' in the wind: research desires and data possibilities. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 79-84.

Lock, G. 1995. Archaeological computing, archaeological theory, and moves towards contextualism. In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 13-18.

Lock, G. 1998. The past, present and future of GIS-based cultural landscape research. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 31-36.

Maschner, H. 1996. Theory, technology and the future of Geographic Information Systems in archaeology. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 301-308.

McGlade, J. 1997. GIS and integrated archaeological knowledge systems. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Parcera-Oubina, C. 1999. Deconstructing the land: the archaeology of scared geographies. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: 73-80.

- Pickles, J. 1995. *Ground truth: the social implications of geographic information systems*. New York: Guilford Press.
- Pickles, J. 1997. Tool or science? GIS, technoscience, and the theoretical turn. *Annals of the Association of American Geographers*, 87(2): 363-372.
- Rajala, U. 2004. Sense and sensibility - reflections on the epistemology and ontology of GIS studies. *Internet Archaeology* 16.
- Thomas, J. 2004. *Archaeology and modernity*. London: Routledge.
- Van Hove, D. 2003. Agency and GIS: the neolithic land use hypothesis within southern Italy. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Van Leusen, M. 1996. Unbiasing the archaeological record. *Archaeologia e Calcolatorio* 7: 129-135.
- Voorrips, A. 1997. archaeological theory and GIS: any relationship? In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Wansleeben, M. and Verhart, L. 1997. Geographical Information Systems: methodological progress and theoretical decline. *Archaeological Dialogues* 1997-1: 53-70.
- Webster, D.S. 1999. The concept of affordance and GIS: a note on Llobera. *Antiquity* 73: 915-917.
- Wheatley, D. 1993. Going over old ground: GIS, archaeological theory and the act of perception. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 133-137.
- Wheatley, D. 2000. Spatial technology and archaeological theory revisited. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 123-132.
- Whitley, T. 2002. Modeling archaeological and historical cognitive landscapes in the Greater Yellowstone region (Wyoming, Montana, and Idaho, USA) using Geographic Information Systems. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 139-148.
- Whitley, T. 2003. GIS as an interpretative tool for addressing risk management and cognitive spatial dynamics in a slave society. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Wise, A. 2000. Building theory into GIS-based landscape analysis. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 141-148.
- Witcher, R. 1999. GIS and landscapes of perception. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 13-22.
- Zaplata, R. and Tschan, A. 2001. An integrated space approach for the interpretation of a Medieval stronghold in middle Pomerania, Poland. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 197-204.

Zubrow, E. 1990. Contemplating space: a commentary on theory. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 67-72.

Zubrow, E.B.W. 1994. Knowledge representation and archaeology: a cognitive example using GIS. In Renfrew, C. and Zubrow, E.B.W. (eds) *The Ancient Mind: Elements of Cognitive Archaeology*. Cambridge: CUP.

GIS methodology

Alexakis, D., Astaras, T., Sarris, A., Vouzaxakis, K. and Karimali, L. 2008. Reconstructing the neolithic landscape of Thessaly through a GIS and geological approach. In A. Posluschny, K. Lambers and I. Herzog (eds). Layers of Perception. *Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Allen, K. 1990. Manipulating Space: a commentary on GIS applications. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 197-200.

Baena-Preysler, J., Blasco, C., Espiago, J. and Rio, A. 1999. Geographic Information Systems and archaeology: methodological aspects of the presentation and display of results. In M. Gillings, D. Christiansen, J., and Altawee, M. 2007. Agent-based holistic simulations of bronze age Mesopotamian settlement systems. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Beex, W. 2004. Use and abuse of digital terrain/elevation models. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Contreras, D.A. 2009. Reconstructing landscape at Chavín de Huántar, Perú: A GIS-based approach. *Journal of Archaeological Science* 36: 1006-1017

Corley, H. 2007. Between creator and reader: towards communicative maps. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Cornish, L. 2004. The application of GIS in analysing human risk to shipwrecks. Port Phillip Bay, Victoria, Australia. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Crandell, O. and Bálos, A. 2008. Palaeotopography - the use of GIS software with data derived from resistivity surveys and stratigraphic profiles to reconstruct sites and past terrains. In A. Posluschny, K. Lambers and I. Herzog (eds). Layers of Perception. *Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Dallas, R., Parker, D. and Hilder, D. 1995. GIS principles applied to an English country house: the Brodsworth Hall project. In Wilcock, J. and Lockyear, C. (eds). 1995. *Proceedings of the 21st CAA conference held at Staffordshire University, Stoke on Trent, 3-8th April 1993*. Oxford: BAR S598: 259-262.

De Silva, M. and Pizziolo, G. 2004. GIS analysis of historical cadastral maps as a contribution in landscape archaeology. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

- Drechsler, P., and Tiede, D. 2007. The spread of neolithic herders – a computer aided modelling approach. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Earl, G. and Keay, S. 2007. Urban connectivity of Iberian and Roman towns in southern Spain: a network analysis approach. In J.T. Clark and E.M. Hagemeister (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Evans, A.A., Wolframm, Y.B., Donahue, R.E. and Lovis, W.A. 2007. A pilot study of “black chert” sourcing and implications for assessing hunter-gatherer mobility strategies in Northern England. *Journal of Archaeological Science* 34: 2161-2169
- Forte, M. 1995. Scientific visualization and archaeological landscape: the case-study of a Terramarra, Italy. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 231-238.
- Goldner, R. 1997. GIS-aided recording of archaeological units in Saxony. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Green, S. 1990. Approaching archaeological space: an introduction to the volume. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 3-8.
- Hageman, J. and Bennett, D. 2000. Construction of digital elevation models for archaeological applications. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 113-128.
- Harris, T.M. and Lock, G.R. 1996. Multi-dimensional GIS: exploratory approaches to spatial and temporal relationships within archaeological stratigraphy. In Kamermans, H. and Fennema, K (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95*. *Analecta Praehistorica Leidensia* 28: 307-316. Leiden, University of Leiden Press.
- Isaksen, L. 2007. Network analysis of transport vectors in Roman Baetica. In J.T. Clark and E.M. Hagemeister (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Johnson, I. 1997. Desktop mapping and raster GIS: best of both worlds? In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Kirkinen, T. 1999. GIS-assisted data analysis - finding meanings in complex spatial data sets. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 255-258.
- Kvamme, K. 1990. GIS algorithms and their effects on regional archaeological analysis. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 112-125.
- Limp, F. 1997. Developing methodologies in the analysis of spatially referenced data and their impacts on archaeological method and theory. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Lowe, K.M. 2007. Evaluating paleochannels using interdisciplinary methods in the Yazoo Basin of northwest Mississippi. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]Madry, S. 1990. The realities of hardware. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 173-183.

Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 1333-137.

Miller, P. 1995. How to look good and influence people: thoughts on the design and interpretation of an archaeological GIS. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 319-334.

Mischka, D. 2008. Territorial modelling and archaeological data: how complete must the picture be? In A. Posluschny, K. Lambers and I. Herzog (eds). Layers of Perception. *Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Mlekuz, D. 2004. Listening to landscapes: modelling past soundscapes in GIS. *Internet Archaeology* 16.

Nigro, J., Limp, F., Kvamme, K., de Ruiter, D. and Berger, L. 2002. The creation and potential application of a 3-dimensional GIS for the early hominid site of Swartkrans, South Africa. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 113-124.

Ostir, K., Stančič, Z., Podobnikar, T and Veljanovski, T. 2004. Producing digital elevation models with radar interferometry. In Kamermans, H. and Fennema, K. (eds). *Making the connection to the Past: CAA99*. Leiden: CAA

Peduto, A. 1999. An archaeological Geographical Information System in Arc/Info. In J. Barcelo., I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 107-110.

Peterson, J. 1998. Mathematical detection of patterns in ancient landscape. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 111-114.

Posluschny, A. 2007. From landscape archaeology to social archaeology. Finding patterns to explain the development of early Celtic "Princely Sites" in middle Europe. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Pouncett, J. 2007. Network analysis and landscape stratigraphy. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Pouncett, J. and Lock, G. 2007. A vector-based approach to the integration of geophysical and test-pitting data: phasing the South Cadbury Environs Project. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

- Rajala, U. 2004. Describing the geographical background of the archaeological sites presented as point features. An analysis of the effect of different spatial resolutions and different software on interpretations. In Kamermans, H. and Fennema, K. (eds). *Making the connection to the Past: CAA99*. Leiden: CAA
- Reeler, C. 1997. Beyond GIS: artificial intelligence in archaeology. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Reeler, C. 1997. Fuzzy logic, neural networks and the analysis of *pa* sites. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Rhind, H.D. 1988. A GIS research agenda. *International Journal of Geographical Information Systems* 2: 23-28.
- Ruggles, A. and Church, R. 1996. An analysis of late horizon settlement patterns in the Teotihuacan-Temascalapa basins: a location-allocation and GIS-based approach. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 155-174.
- Ruggles, C. 1992. Abstract data structures for GIS applications in archaeology. In G. Lock and J. Moffett (eds). *Computer applications and quantitative methods in archaeology 1991*. Oxford: BAR S577: 107-112.
- Saligny, L. and Gogüey, R. 2003. An association of computerised data processing, image processing of aerial photographs, GPS measurements, GIS: the princely site of Vix and its surroundings. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Slapsak, B. and Stančič, Z. 1998. Down to the millimetre - GIS in metrological study of ancient land divisions. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 105-110.
- Šmejda, L. 2008. Expanding scales in GIS analysis. In A. Posluschny, K. Lambers and I. Herzog (eds). Layers of Perception. *Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Stead, S. 1995. Humans and PETS in space. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 313-318.
- Stine, R. and Decker, T. 1990. Archaeology, data integration and GIS. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 134-140.
- Stine, R. and Lanter, D. 1990. Considerations for archaeology database design. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 80-89.
- Trick, S., Lilley, K., and Lloyd, C. 2007. Speeding up visualisation of medieval urban landscapes: John Speed, GIS and 3D. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Tschan, A. 1999. An introduction to object-oriented GIS in archaeology. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 303-316.

Tsonev, T., Kokelj, E. and Piano, C. 2004. Efficiency of chipped-stone techniques: an analytical model based on GIS data. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Van Dalen, J. 1999. Probability modelling: a Bayesian and geometric example. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 117-124.

Verhagen, P. and McGlade, J. 1997. Spatialising dynamical modelling: a new opportunity for GIS. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Wiemer, R. 1995. Another way to deal with maps in archaeological GIS. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 301-312.

Wright, D.J., Goodchild, M.F. and Proctor, J.D. 1997. Demystifying the persistent ambiguity of GIS as “tool” versus “science”. *Annals of the Association of American Geographers*, 87(2): 346-362.

Zubrow, E. 1990. The fantasies of GIS software. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 184-193.

Zubrow, E. and Green, S. 1990. Coping with space: commentary on data sources, hardware and software. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 129-133.

Spatial analysis

Bailey, T.C. 1994. A review of statistical spatial analysis in geographical information systems. In S. Fotheringham and P. Rogerson (eds). *Spatial Analysis and GIS*: 13-44. London, Taylor & Francis.

Bevan, A. and Conolly, J. 2009. Modelling spatial heterogeneity and nonstationarity in artifact-rich landscapes. *Journal of Archaeological Science* 36: 956-964

Doxtater, D. 2007. A report on geopatterns software: describing and analyzing large-scale geometry between Chacoan and natural sites in the American southwest. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Ebert, J., Camilli, E. and Berman, M. 1996. GIS in the analysis of distributional archaeological data. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 25-37.

Farley, J., Limp, F. and Lockhart, J. 1990. The archaeologist's workbench: integrating GIS, remote sensing, EDA and database management. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 141-164.

Fletcher, R. 2008. Some spatial analyses of Chalcolithic settlement in Southern Israel. *Journal of Archaeological Science* 35: 2048-2058

- Georges-Leroy, M., Tolle, F. and Nouvel, P. 2008. Analysis of the intensity of agrarian exploitation by spatial analysis of ancient field systems preserved by forest cover. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10.* Bonn: Dr. Rudolf Habelt GmbH.
- Goodchild, M. 1996. Geographic Information Systems and spatial analysis in the social sciences. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems.* Oxford: OUP: 241-250.
- Graham, S. and Steiner, J. 2007. TravellerSim: growing settlement structures and territories with agent-based modeling. In J.T. Clark and E.M. Hagemeister (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology.* Budapest: Archaeolingua.
- Haciguzeller, P. 2007. Testing spatial patterns and hypotheses at Minoan Palaikastro, Crete. In J.T. Clark and E.M. Hagemeister (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology.* Budapest: Archaeolingua.
- Jaroslawn, J. and Hildebrandt-Radke, I. 2009. Using multivariate statistics and fuzzy logic system to analyse settlement preferences in lowland areas of the temperate zone: an example from the Polish Lowlands. *Journal of Archaeological Science* 36: 2096-2107
- Kvamme, K. 1993. Spatial statistics and GIS: an integrated approach. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference.* Aarhus: Aarhus University Press: 91-104.
- Kvamme, K.L. 1994. GIS graphics vs. spatial statistics: how do they fit together? *Archaeological Computing Newsletter* 38: 1-2.
- Kvamme, K. 1996. Investigating chipping debris scatters: GIS as an analytical engine. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research.* Carbondale: Southern Illinois University: 38-71.
- Kvamme, K. 1997. GIS and statistical inferences in Arizona: Monte Carlo significance tests. In I. Johnson and M. North (eds). *Archaeological applications of GIS.* Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Lechterbeck, J. 2008. When the point becomes the area: multivariate and spatial analysis of pollen data. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10.* Bonn: Dr. Rudolf Habelt GmbH.
- Macchi Janica, G. 2003. Spatial analysis utilities: a quantitative tool for studies on archaeological distribution. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002.* Athens: Hellenic Ministry of Culture.
- McClung, E. and Tapia-Recillas, H. 1997. Statistical analysis using GIS: applications to the study of Prehispanic settlement location in the Teotihuacan region, Mexico. In I. Johnson and M. North (eds). *Archaeological applications of GIS.* Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

McMahon, T.C. 2007. Discerning prehistoric landscapes in Colorado and the Mesa Verde region using a kernel density estimate (KDE) method. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Neustupny, E. 1995. Beyond GIS. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 133-140.

Williams, I., Limp, F. and Briuer, F. 1990. Using geographic information systems and exploratory data analysis for archaeological site classification and analysis. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 239-273.

Landscape archaeology (methodology)

Allen, K. 2000. considerations of scale in modeling settlement patterns using GIS: an Iroquois example. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 101-112.

Beebe, C. 1999. Joining the club: issues, problems and practices in initiating GIS. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 89-96.

Chapman, H. and van de Noort, R. 2001. High-resolution wetland prospection, using GPS and GIS: landscape studies at Sutton Common (South Yorkshire), and Meare Village East (Somerset). *Journal of Archaeological Science* 28: 365-375.

Chartrand, J. 1996. Archaeological resource visibility and GIS: a case-study in Yorkshire. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 389-398.

Feiken, H. and van Leusen, M. 2001. Interpreting field survey results in the light of historic relief change: the Fogliano beach ridges (South Lazio, Italy). In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 205-210.

Gaffney, V. and van Leusen, M. 1996. Extending GIS methods for regional archaeology: the Wroxeter Hinterland Project. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 297-306

Gaffney, V., Ostir, K., Podobnikar, T and Stančič, Z. 1996. Satellite imagery and GIS applications in Mediterranean landscapes. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 337-342.

Gillings, M. 2000. The utility of the GIS approach in the collection, management, storage and analysis of surface survey data. In J.L. Bintliff, M.Kuna and N. Venclova (eds). *The future of surface artefact survey in Europe*: 105-120. Sheffield: Sheffield Academic Press.

Gillings, M., Mattingly, D. and van Dalen, J. (eds) 2000. *Geographical Information Systems and landscape archaeology*. Mediterranean Landscape Archaeology 3. Oxford: Oxbow.

Gillings, M. and Sbonias, K. 1999. Regional survey and GIS: the Boeotia project. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 35-54.

- Gilman Romano, D. and Tolba, O. 1995. Remote sensing, GIS and electronic surveying: reconstructing the city plan of Roman Corinth. In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 163-174.
- Hunt, E.D. 1992. Upgrading site-catchment analyses with the use of GIS: investigating the settlement patterns of horticulturalists. *World Archaeology* 24 (2): 283-309.
- Jackson, J. 1990. Building an historic settlement database in GIS. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 274-283.
- Johnson, J. 1996. Delta digitizing: GIS and remote sensing in Northwest Mississippi. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 242-251.
- Kohler, T. and Carr, E. 1997. Swarm based modelling of prehistoric settlement systems in southwestern North America. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Lock, G., Bell, T. and Lloyd, J. 1999. Towards a methodology for modelling surface survey data: the Sangro valley project. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 55-64.
- Massagrande, F. 1995. A GIS approach to the study of non-systematically collected data: a case-study from the Mediterranean. In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 147-156.
- Massagrande, F. 1995. Using GIS with non-systematic survey data: the Mediterranean evidence. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 55-66.
- McGwire, K., Chagnon, N. and Crial, C. 1996. Empirical and methodological problems in developing a GIS database for Yanomano tribesmen located in remote areas. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 97-106.
- Moscatti, P. 1999. GIS and archaeology: the 'Caere' survey. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 103-106.
- Peterson, J. 2001. CAA conference papers on GIS in landscape studies: 1988-1998. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 17-23.
- Phillips, C. 2004. GIS and landscape analysis, or the cart before the horse? *Internet Archaeology* 16.
- Richards, J. 1996. From site to landscape: multi-level GIS applications in archaeology. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 361-362.
- Rhode, D. and Roger, H. 1997. GIS and obsidian hydration-based chronologies of regional surface archaeology: an example from Yucca mountain, Nevada, USA. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

- Robinson, J. and Zubrow, E. 1999. between spaces: interolation in archaeology. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 65-84.
- Roughley, C. 2001. Understanding the Neolithic landscape of the Carnac region,; a GIS approach. In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 211-218.
- Ryan, N., Pascoe, J. and Morse, D. 1999. Fieldnote: extending a GIS into the field. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 127-132.
- Saile, T. 1997. Landscape archaeology in central Germany: site catchment analysis using GIS. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Spikins, P. 1995. Virtual landscapes - GIS and lithic scatters. In Schofield, A.J. (ed.). *Lithics in Context. Lithic Studies Occasional paper 5*.
- Stine, L. and Stine, R. 1990. GIS, archaeology and freedom of information. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 54-63.
- Stonich, S. 1996. Integrating socioeconomic and Geographic Information Systems: a methodology for rural development and agricultural policy. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 78-96.
- Van Leusen, M. 1993. cartographic modelling in a cell-based GIS. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 105-124.
- Vermeulen, F. 2001. The potential of GIS in landscape archaeology. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 9-16.
- Vullo, N. and Barker, G. 1997. Regional sampling and GIS: the Tuscania survey project. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Landscape Archaeology (case-studies)

- Adrinopoulos, A. 1998. Ancient and contemporary landuse in west Achaia, Peleponessus, Greece: a GIS application. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 37-42.
- Allen, K. 1996. Iroquoian landscapes: people, environments, and the GIS context. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 198-222.
- Attema, P. 1999. Cartography and landscape perception: a case-study from central Italy. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 23-34.
- Baena, J., Blasco, C. and Recuero, V. 1995. The spatial analysis of Bell-beaker sites in the Madrid region of Spain In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 101-116.

- Behrens, C. 1996. A formal justification for the application of GIS to the cultural ecological analysis of land-use intensification and deforestation in the Amazon. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 55-77.
- Belcher, M., Harrison, A. and Stoddart, S. 1999. Analyzing Rome's hinterland. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 95-102.
- Boaz, J. and Uleberg, E. 1995. The potential of GIS-based studies of Iron Age cultural landscapes in eastern Norway. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 249-260.
- Bourgeois, J., De Wulf, A., Ebel, A.V., Gheyle, W., Goossens, R., and van Hoof, L. 2007. Mapping and surveying the archaeological monuments of the Altai Mountains (Altai Republic). In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]
- Cattani, L., Cerasetti, B., Salvaton, S. and Tosi, M. 2003. The Murghab delta in central Asia 1990-2001: GIS from a research resource to a reasoning tool for the study of settlement change in long-term fluctuations. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Chartrand, J., Richards, J. and Vynor, B. 1993. Bridging the urban-rural gap: GIS and the York environs project. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 159-166.
- Daly, P., Frachetti, M. and Okkonen, J. 2000. GIS and early Aland: spatial analysis in an archipelago of south-western Finland. . In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 91-100.
- Duke, C. 2003. Quantifying Palaeolithic landscapes: computer approaches to terrain analysis and visualisation. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Ebersbach, R. and Schade, C. 2004. Modelling the intensity of early Neolithic landuse with the help of GIS: an example from the Morlener Bucht, Wetterau, Hesse, Germany. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Farinetti, E. and Sbonias, K. 2004. Fields of wheat back to the land: a GIS environment for the study of medieval village history in central Greece. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Figueiredo, A. 2007. Walking in a way: some conclusions of the recent pré-history in Alto Ribatejo region. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Gaffney, V. and Stančić, Z. 1992. Diodorus Siculus and the island of Hvar, Dalmatia: testing the text with GIS. In G. Lock and J. Moffett (eds). *Computer Applications and Quantitative Methods in Archaeology 1991*. Oxford: BAR S577: 113-124.

- Gilman Romano, D. 1997. The Corinth computer project: reconstructing the city plan and landscape of Roman Corinth. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Gilman Romano, D., Arbittier, D., Tolba, O., Stapp, N. and Insua, A. 2003. The use of GIS and remote sensing in the study of Minoan town planning at Gournia. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Gisiger, A. 1997. A spatial analysis of regional human adaptation patterns using continental-scale data. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Grau Muria, I. 2002. GIS approach to Iberian iron age landscape in central-south Valencia region. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 43-48.
- Green, S. 1990. Sorting out settlement in southeastern Ireland: landscape archaeology and Geographic Information Systems. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 356-363.
- Grun, A., Sauerbier, M. and Lambers, K. 2003. Visualisation and GIS-based analysis of the Nasca geoglyphs. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Hansell, P. 1997. Reconstructing the settlement history of La Mula-Sarigua, central Pacific Panama: exercises for studying the past. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Huckerby, C. 1999. GIS and prehistoric mammal acquisition patterns. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Indruszewski, G. 2004. GIS-analysis in the reconstruction of an early medieval landscape. The upper Lusatian case-study. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Jensen, D. 2003. Geoglyphs and GIS: modelling transhumance in northern Chile. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Kamermans, H. and Rensink, E. 1999. GIS in Palaeolithic archaeology: a case-study from the southern Netherlands. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Katifori, M. 2007. Recapturing the spatial dynamics of the Venetian occupation period of Merabello in eastern Crete through a GIS approach. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Lim, S.E., Stoddart, S., Harrison, A. and Chalmers, A. 1996. Recent examples of geographical analysis of archaeological evidence from central Italy. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 331-336.

- Loker, W. 1996. land degradation in the Peruvian Amazon: applying GIS in human ecology research. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 19-43.
- Longhi, C. and Mangani, C. 2004. GIS spatial analysis in the Etruscan trading centre of Bagnolo St. Vito (Mantova, Italy). In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Lowerre, A.G. 2007. A GIS analysis of the location of late-eleventh-century castles in the southeastern Midlands of England. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Macdonald, K. 2002. Statistical analysis of the distribution of modern primates: a comparative approach to the spatial analysis of the Palaeolithic. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 105-112.
- Madry, S. and Crumley, C. 1990. An application of remote sensing and GIS in a regional archaeological settlement pattern analysis: the Arroux river valley, Burgundy, France. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 364-380.
- Martín, A.M. 2008. Using GIS to deconstruct Iberian iron age landscapes: the territory of Kelin between 6th–5th centuries BC (La Plana d’Utiel, València). In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Martlew, R. 1996. The contribution of GIS to the study of landscape evolution in the Yorkshire Dales, UK. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 293-296.
- Maschner, H. 1996. The politics of settlement choice on the northwest coast: cognition, GIS and coastal landscapes. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 175-189.
- Massagrande, F. 1996. The Romans in southwestern Spain: total conquest or partial assimilation? Can GIS answer? In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 325-331.
- Massagrande, F. 1999. A GIS study on the spatial development of coastal Catalunya. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Mattioli, T. 2008. Landscape analysis of a sample of rock-art sites in central Italy. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Orengo, H.A. 2007. Detection of body dump sites and clandestine burials: a GIS-based landscape approach. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]

- Parmegiani, N. and Poscolieri, M. 1997. Study of the relationship between landscape characteristics and pre-protohistoric sites in southern Etruria, Italy. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Pecere, B. 2007. Applications of GIS to the study of Daunian settlement patterns in the pre-Roman age. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Perkins, P. 1999. Reconstructing the population history of the Albegna valley and Ager Cosanus, Tuscany, Italy, in the Etruscan period. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 103-116.
- Perkins, P. 2000. A GIS investigation of site location and landscape relationships in the Albegna valley, Tuscany. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the ALI.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 133-140.
- Pescarin, S. 2002. GIS contribution to urban history and to the reconstruction of ancient landscape. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 125-128.
- Peternam, G. 1993. GIS and archaeology in Jordan. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 189-194.
- Peterson, J. and Rayward Smith, V. 1995. A GIS study of potential traces of a Roman cadastre and soil type traces in Romney marsh. In Wilcock, J. and Lockyear, C. (eds). 1995. *Proceedings of the 21st CAA conference held at Staffordshire University, Stoke on Trent, 3-8th April 1993*. Oxford: BAR S598: 155-160.
- Pizziolo, G. 2007. Towards prehistoric landscape interpretation: GIS analysis of stratigraphical and remote sensing data in Sesto Fiorentino plain. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Potts, R., Jorstad, T. and Cole, D. 1996. The role of GIS in the interdisciplinary investigations at Ologesailie, Kenya, a Pleistocene archaeological locality. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 202-213.
- Rajala, U., Harrison, A. and Stoddart, S. 1999. The enhancement of the South Etruria survey: GIS in the study and research history of the southern Faliscan area. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Reeler, C. 1999. An analysis of the structure and function of Prehistoric Maori Pa sites. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Richards, J. 1996. Putting the site in its setting: GIS and the search for Anglo-Saxon settlements in Northumbria. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 379-388.

Rizakis, A., Evelpidou, N. and Vassilopoulos. 2001. Evaluating the distances between Roman sites and physical features in the Patras area: a GIS solution. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 57-60.

Rua, H. 2007. Historical analysis and territory: a contribution to the study of the defense of the city of Lisbon – the Peninsular Wars. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]

Samarathunga, S. 2007. GIS applications in archaeology: distribution patterns of early iron age sites in Sri Lanka. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]

Santoriello, A., Scelza, F.U., Gallotti, R., Bove, R., Sirangelo, L., and Pontrandolfo, A. 2007. The GIS Application to the spatial data organization of the necropolis of Poseidonia-Paestum (Salerno, Italy). In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Savage, S. 1990. Modelling the Late Archaic social landscape. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 330-355.

Simoni, H. and Papagiannopoulos, K. 1998. Project for the topography of ancient Achaia, Greece: quantitative analysis and visualisation of the results of the intensive surface survey at Kamenitsa. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 43-56.

Smith, N. 1995. Towards a study of ancient Greek landscapes: the Perseus GIS. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 239-248.

Snow, D. 1997. GIS and Northern Iroquoian demography. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Spikins, P. 1997. Population increase in the Mesolithic: a GIS perspective. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Soetens, S., Sarris, A., Topouzi, S. and Tripolitsiotis, A. 2002. GIS modeling of the Minoan peak sanctuaries of east Crete. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 129-138.

Sorensen, K., Glover, G. and Fedick, S. 2004. A volumetric assessment of ancient Maya architecture: a GIS approach to settlement patterns. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Stančić, Z., Dular, J., Gaffney, V. and Tecco-Hvala, S. 1995. A GIS-based analysis of later prehistoric settlement patterns in Dolenjska, Slovenia. In Wilcock, J. and Lockyear, C. (eds). 1995. *Proceedings of the 21st CAA conference held at Staffordshire University, Stoke on Trent, 3-8th April 1993*. Oxford: BAR S598: 161-164.

Stančić, Z., Gaffney, V., Ostir, K. and Podobnikar, T. 1997. GIS analysis of land-use, settlement patterns and territories on the island of Brač. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

- Stančić, Z. and Gaffney, V. 1999. GIS-based analysis of the population trends on the island of Brac in Central Dalmatia. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 85-94.
- Stoddart, S., Belcher, M. and Harrison, A. 1997. The application of GIS in south Etruria. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Sydoriak-Allen, K. 1990. Modelling early historic trade in the eastern great lakes using geographic information systems. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 319-329.
- Topouzi, S. 2007. The settlement pattern of ancient Icaria through a GIS Approach. Part II: data visualization. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Trebeleva, G. 2008. The organization of Taman's defense from the mid 1st century BC to the turn of the 2nd century AD: a historical simulation based on GIS technologies. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Trella, P. and Zubrow, E. 1997. Agriculture in the New World. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Uotila, K., Aiho, P., Pukkila, J. and Tulkki, C. 2003. Modeling natural and human landscape in prehistoric and medieval southwest Finland from 500BC to 1500 AD - computer based visualisation. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Van West, C. and Kohler, T. 1996. A time to rend, a time to sew: new perspectives on northern Anasazi socio-political development in late prehistory. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 107-131.
- Verhagen, P., McGlade, J., Risch, R. and Gili, S. 1995. Some criteria for modelling socio-economic activities in the Bronze Age of south-east Spain. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 187-210.
- Verhagen, P., Gili, S., Mico, R. and Risch, R. 1999. Modelling prehistoric land use distribution in the Rio Aguas valley (SE Spain). In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Verhoeven, G. and Vermeulen, F. 2004. The Potenza valley survey: towards an explanation of the settlement patterns through the combined use of GIS and different survey techniques. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Wansleben, M. and Verhart, L. 1995. GIS on different spatial levels and the Neolithisation process in the south-eastern Netherlands. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 153-170.

Witcher, R. 2008. (Re)surveying Mediterranean rural landscapes: GIS and legacy survey data. *Internet Archaeology* 24.

Zarifis, N. and Brokou, D. 2002. GIS and space analysis in the study of the Hospitallers' fortifications in the Dodecanese. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 149-153.

Cultural resource management

Altschul, J. 1990. red flag models: the use of modelling in management contexts. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 226-238.

Amores, F., Garcia, L., Hurtado, V. and Rodriguez-Bobada, M. 1999. Geographic Information Systems: an archaeological resource management in Andalusia (Spain). In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 351-358.

Amores, F., Garcia, L., Hurtado, V. and Rodriguez-Bobada, M. 2000. An exploratory approach to Andalusian archaeological heritage records. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 101-116.

Bampton, M. and Hamilton, N. 1997. Archaeology, CRM and the Casco Bay database. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Bampton, M. and Mosher, R. 2001. A GIS driven regional database of archaeological resources for research and CRM in Casco Bay, Maine. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 139-142.

Berg, E. 2001. National registries of sites and monuments in Norway - developing GIS-based databases. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 133-138.

Berg, E. 2007. Using a GIS-based database as a platform for cultural heritage management of sites and monuments in Norway. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Binding, C., May, K., and Tudhop, D. 2008. Semantic interoperability in archaeological datasets: data mapping and extraction via the CIDOC CRM. In B. Christensen-Dalsgaard, D. Castelli, J. Ammitzbøll and J. Lippincott (eds). *Research and advanced technology for digital libraries. 12th European conference, ECDL 2008, Aarhus, Denmark, September 14-19, 2008. Proceedings*. Berlin: Springer: 280-290. <http://www.springerlink.com/content/h334h73737705708/>

Boas, J. and Uleberg, E. 1993. Gardermoen Project - use of a GIS system in antiquities registration and research. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 177-182.

Borner, W. 2001. Vienna archaeological GIS (VAGIS): a short outline of a new system for the Stadtarchäologie Wien. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 149-152.

Borner, W. 2002. 2000 years of town planning in Vienna. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 13-20.

Bosqued, C., Baena-Preysler, J. and Expiago, J. 1996. The role of GIS in the management of archaeological data: an example of application for the Spanish administration. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 190-201.

Bugalhao, J. 2002. The experience of the Portuguese institute of archaeology in ARM and GIS. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 97-99.

Cacho, S. 2002. ARQUEOS: the information system of the Andalusian archaeological heritage. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 27-36.

Collaviti, A. and Deplano, G. 2002. Geographic Information Systems and archaeology; the case of ancient Nora (Pula-Cagliari). In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 261-266.

Cottenceau, A. and Hannois, P. 2002. ARM and GIS in France: from Dracar to Patriarche. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 53-60.

D'Andrea, A., De Nicola, R. and Giordano, A. 1999. The Eurialo project: a vector GIS for the integrated management of the archaeological data of Pontecagnano (Italy). In J. Barcelo, I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 145-148.

De Buitelir, M. 2002. GIS, RDBMS and documentation in Irish archaeological resource management. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 61-74.

Dentamaro, F., De Luca, P.G., Genco, L., Perrino, G., Cannito, C., Stufano, M.A., and Sibilano, M.G. 2007. A CIDOC CRM-Base ontology system. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]

Dyson-Bruce, L. 2002. Historic landscape assessment: the east of England experience. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 35-42.

Farley, J. and Gisiger, A. 1996. Managing the infrastructure: the use of a corporate metadata for archaeology. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 275-300.

Flag, P. GIS in Swedish Archaeology. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Fronza, V., Nardini, A. and Valenti, M. 2003. An integrated system for archaeological data management: latest developments. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

Huckerby, C. and Poulsen, C. 1999. How archaeological sites co-exist with fast-paced, intense army training activities. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: 59-62.

Fairclough, G. 2002. Cultural landscape, computers and characterisation: GIS-based historic landscape characterisation as a tool for archaeological resource management in England. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 277-294.

Garcis-Sanjuan, L. and Wheatley, D. 2002. Managing the spatial dimension of the European archaeological resource: trends and perspectives. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 151-166.

Gonzalez Perez, C. 2002. The implicit GIS. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 109-114.

Guermandi, M. 1999. Protection of the archaeological patrimony and GIS: the elaboration of an archaeological cartography aimed at the problems of territorial planning in the Emilia Romagna region. In J. Barcelo, I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 359-364.

Guillot, D. and Leroy, G. 1995. The use of GIS for archaeological resource management in France: the SCALA project, with a case study in Picardie. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 15-26.

Hansen, H. and Dam, C. 2002. On-line management of Cultural Heritage Cartography: an introduction to the Danish experience. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 129-138.

Haskiya, D. 2002. developing an information system for archaeological sites and monuments - data model and construction. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 49-52.

Jablonka, P. 2004. Reconstructing sites and archives: information and presentation systems at Troy. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Kilbride, W. 2002. Mapping the heritage information landscape: interoperability and geo-spatial description in the management of Europe's historic environment. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 115-128.

Kuna, M. 2002. The archaeological record of Bohemia: an attempt at an analytical information system. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 45-52.

Lang, N. 1993. From model to machine: procurement and implementation of Geographical Information Systems for county sites and monuments records. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 167-176.

Lang, N. 2001. New technology for heritage management in England. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 45-52.

- Liu, J., Xu, L., Sarris, A. and Topouzi, S. 2003. CRM and archaeological research using remote sensing and GIS: Zhouyuan (China) and Lasithi (Greece). In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Lock, G. and Harris, T. 1991. Integrating spatial information in computerised SMRs. In K. Lockyear and S. Rahtz (eds). *Computer applications and quantitative methods in archaeology 1990*. Oxford: BAR S565: 165-174.
- MacNeill, R. 1997. CRMgrid: the cultural heritage management project, Victoria, Australia. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Madsen, T. 1997. GIS and Scandinavian archaeology: a tale from the real world. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Mayer, C. 2002. Some aspects of SMR management in Austria. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 37-44.
- Middleton, R. and Winstanley, D. 1993. GIS in a landscape archaeology context. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 151-158.
- Morimoto, S. 2001. NARS - Nabuken aerial photograph retrieval system - a way to the GIS. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 153-156.
- Moscatti, P. and Tagliamonte, G. 2002. GIS applications in Italian archaeology: the results of a survey and the development of the Caere project. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 75-84.
- Murray, D. 2002. The integration of data sources. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 139-150.
- Nielsen, L., Hansen, H. and Dam, C. 2001. SMR in new clothes: the Danish national record of sites and monuments on the verge of a new era. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 127-132.
- Palumbo, G. 1993. JADIS (Jordan Antiquities Database and Information System): an example of national archaeological inventory and GIS applications. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 183-188.
- Prinke, A. 2002. Introducing information technology to archaeological resource management: towards a GIS-based SMR of mid-western Poland. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 85-96.
- Roorda, I. And Wiemar, R. 1992. Towards a new archaeological information system in the Netherlands. In G. Lock and J. Moffett (eds). *Computer Applications and Quantitative Methods in Archaeology 1991*. Oxford: BAR S577: 85-88.

Rubegger, S., Zeiner, H and Mayer, H. 2004. Integrating web and GIS services into archive and collection management systems. In Ausserer, K., Borner, W., Goriány, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Van Leusen, M. 1995. GIS and archaeological resource management: a European agenda. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 27-42.

Wheatley, D. W. and Sanjuan, L.G. 1999. The State of the Arc: differential rates of adoption of GIS for European Heritage Management. *European Journal of Archaeology* 2(2).

Wiemer, R. 2002. Standardisation: the key to archaeological data quality. In L. Garcia-Sanjuan and D. Wheatley (eds). *Mapping the future of the past: managing the spatial dimension of the European archaeological resource*. Sevilla: Universidad de Sevilla: 103-108.

Zeeb-Lanz, A. 2004. Effective, easy to use, economical: PGIS, the database for archaeological monuments in Speyer (Palatinate), Germany. In Ausserer, K., Borner, W., Goriány, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Zinglensen, K. 2004. Odense ByGIS - Odense urban archaeological GIS. In Ausserer, K., Borner, W., Goriány, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

GIS and museums

Baena, F., Quesada, F. and Blasco, M. 1996. An application of GIS intra-site analysis to museum display. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 469-471.

Internet publication

Ardissone, P., Restelli, F.B., Borgia, E. and Brienza, E. 2008. Web-GIS Solutions for the analysis and valorisation of archaeological sites in the Mediterranean basin. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

D'Andrea, A., Niccolucci, F. and Crescioli, M. 2001. Web access to an archaeological GIS. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 317-322.

Haser, J. and Schultz, A. 2004. An internet-Geographical Information System for multi-disciplinary research in Oman. In Ausserer, K., Borner, W., Goriány, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Henze, F. 2008. A distributed GIS architecture for research in Baalbek based on CISAR. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Panella, C., Fano, M., Brienza, E. and Carlani, R. 2008. A 3D web-GIS for the valley of the Colosseum and the Palatine Hill. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Sarris, A., Trigkas, V., Papadakis, G., Papazoglou, M., Peraki, E., Chetzoyiannaki, N., Elvanidou, M., Karimali, E., Kouriati, K., Katifori, M., Kakoulaki, G., Kappa, E., Athanasaki, K. and Papadopoulos, N. 2008. A web-GIS approach to cultural resources management in Crete: the digital archaeological atlas of Crete. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Cost-surfaces, pathways and territories

Antrop, M., Vermeulen, F. and Wiedeman, T. 2001. GIS and spatial analysis for the study of Roman roads and field patterns in the Civitas Menapiorum. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 61-79.

Baena, J., Blasco, C., Roldan, L., Almonacid, C., Bermudez, J., Carro, I., Rio, A. and Espiago, J. 1998. Applications of GIS to the archaeology of Roman Hispania. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 1-20.

Batten, D.C. 2007. Least-cost pathways, exchange routes, and settlement patterns in late prehistoric east-central New Mexico. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Bell, T., Wilson, A. and Wickham, A. 2002. Tracking the Samnites: landscape and communications routes in the Sangro Valley. *American Journal of Archaeology* 106 (2): 169-186.

Bellavia, G. 2002. Extracting natural pathways from a digital elevation model. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 5-12.

Bommelje, Y. and Doorn, P. 1996. The long winding road: land routes in Aetolia (Greece) since Byzantine times. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 343-352.

Bullas, S. 1995. ID-MARGARY - an Inference Database for the Mapping, Recognition and generation of ancient roads and trackways. In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 133-136.

Cripps, P. 2007. Pathways, perception and the development of place: computational approaches to movement and perception of landscape in prehistory. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

D'Andrea, A., Saffiotti, L. and Iacotucci, F. 2003. Analyzing an agrarian territory: a vectorial GIS for the detection of ancient cadastral divisions. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

De Silva, M. and Pizziolo, G. 2001. Setting up a human calibrated anisotropic cost surface for archaeological landscape investigation. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 279-286.

Fiz, I. and Orengo, H.A. 2008. Simulating communication routes in Mediterranean alluvial plains. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10.* Bonn: Dr. Rudolf Habelt GmbH.

Gietl, R., Doneus, M. and Fera, M. 2008. Cost distance analysis in an Alpine environment: comparison of different cost surface modules. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10.* Bonn: Dr. Rudolf Habelt GmbH.

Gilman, D. 1998. GIS based analysis of ancient land division in Corinthia, Greece. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use.* Brussels: EU: 21-30.

Glass, C., Steele, J. and Wheatley, D. 1999. Modelling human range expansion across a heterogeneous cost surface. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97.* Oxford: BAR S750: 67-72.

Isaksen, L. 2007. GIS analysis of Roman transport routes, Seville province, Spain. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005.* Tomar: CAAPortugal.

Leveque, M., Vassilopoulos, A. and Evelpidou, N. 2001. Orientation analysis on possible Roman cadastre lines with the use of GIS tools. In B. Slapsak (ed.). *On the good use of Geographic Information Systems in archaeological landscape studies.* Brussels: EU: 53-56.

Ljubljana Student Seminar. 2001. Pre-GIS and GIS analysis of territory: testing the validity of some classical archaeological tools against GIS. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies.* Brussels: EU: 95-100.

Llobera, M. 2000. Understanding movement: a pilot model towards the sociology of movement. In G. Lock (ed.). *Beyond the Map:* Amsterdam: IOS press.

Madry, S. and Rakos, L. 1996. Line-of-sight and cost surface techniques for regional research in the Arroux river valley. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research.* Carbondale: Southern Illinois University: 104-126.

Novakovic, P. 2001. Detecting territoriality and social structure in the bronze and iron ages; GIS and the hillforts in the Kras region. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies.* Brussels: EU: 101-115.

Nuninger, L. 2004. Understanding the protohistorical territorial heritage by means of iron age settlement system analysis in GIS: a case study in the eastern Languedoc. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference.* OXFORD: BAR S1227.

Paliou, E. 2008. An autonomous agent approach to the investigation of intra-site movement and visibility: the visual consumption of Thera murals from the public spaces of LBA Akrotiri (Thera, Greece). In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10.* Bonn: Dr. Rudolf Habelt GmbH.

Podobnikar, T., Hvala, S. and Dular, J. 2004. Iterative approach to ancient paths modeling in the Iron Age of the Dolenjska Region (Slovenia). In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Rahn, R.B. 2007. Praise the sea, on land remain? GIS analysis of travel routes in an iron age island environment. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Ruggles, A. and Church, R. 1996. Spatial allocation in archaeology: an opportunity for re-evaluation. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 147-173.

Van Leusen, M. 1999. Viewshed and cost surface analysis using GIS (Cartographic modelling in a cell-based GIS II). In J. Barcelo, I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 215-224.

Vermeulen, F., Antrop, M., Hageman, B. and Wiedemann, T. 2001. Ancient roads and fields in northwestern Gaul: a GIS-based analysis. In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 187-196.

Zakšek, K., Fovet, E., Nuninger, L. and Podobnikar, T. 2008. Path modelling and settlement pattern. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Environmental modelling

Amesbury, M.J., Charman, D.J., Fyfe, R.M., Langdon, P.G. and West, S. 2008. Bronze Age upland settlement decline in southwest England: testing the climate change hypothesis. *Journal of Archaeological Science* 35: 87-98

Budja, M. and Mlekuz, D. 2001. GIS support in explaining Neolithic flood-plain dynamics: the Ljubljana Moor case. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 117-126.

Burton, N. and Shell, C. 2000. GIS and visualising the palaeoenvironment. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 81-90.

Cerasetti, B. 2002. A 5000 years history of settlement and irrigation in the Murghab delta (Turkmenistan): an attempt of reconstruction of ancient deltaic system. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 21-28.

Chapman, H., Adcock, J., and Gater, J. 2009. An approach to mapping buried prehistoric palaeosols of the Atlantic seaboard in Northwest Europe using GPR, geoarchaeology and GIS and the implications for heritage management. *Journal of Archaeological Science* 36: 2308-2313

Crook, D. 2009. Hydrology of the combination irrigation system in the Wadi Faynan, Jordan. *Journal of Archaeological Science* 36: 2427-2436

Fyfe, R. 2006. GIS and the application of a model of pollen deposition and dispersal: a new approach to testing landscape hypotheses using the POLLANDCAL models. *Journal of Archaeological Science* 33: 483-493

Gillings, M. 1995. Flood dynamics and settlement in the Tisza valley of north-east Hungary: GIS and the Upper Tisza Project. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 67-84.

Gillings, M. 1997. Spatial organisation in the Tisza Flood-Plain: landscape dynamics and GIS. In J. Chapman and P. Dolukhanov (eds). *Landscape in flux. Central and Eastern Europe in Antiquity*: 163-178. Colloquia Pontica 3. Oxford, Oxbow Books.

Gillings, M. 1997. Not drowning but waving? The Tisza floodplain revisited. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Hansell, P. and Ranere, A. 1997. Modelling deforestation and population growth: a view from prehistoric Central Panama. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Indruszewski, G. 2002. Reconstructing the seascape at the mouth of the Oder: elaboration of a DBM-model based on 1912 soundings. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 63-70.

Jones, E.L. 2007. Subsistence change, landscape use, and changing site elevation at the Pleistocene–Holocene transition in the Dordogne of southwestern France. *Journal of Archaeological Science* 34: 344-353

Korobov, D. 2008. GIS as a tool for investigation of early medieval climatic changes in the Kislovodsk basin (southern Russia). In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Laurenza, S. and Pernet-Laurenza, S. 2002. A hundred years of lake contour fluctuation in the Hamun-I Helmand: a GIS based system for the study and the recovery of archaeological information in the Iranian Sistan (1899-1999). In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 85-92.

Löwenborg, D. 2007. Watersheds as a method for reconstructing regions and territories in GIS. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Martlew, R. 1997. Archaeological landscapes and environmental reconstruction in the Yorkshire Dales, UK: GIS models and environmental determinism. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Menotti, F. 1999. The abandonment of the early Bronze age lake-settlement of Bodman-Schachen 1: a CAD and GIS approach to lake-level fluctuation hypothesis. In J. Barcelo, I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 265-270.

Menotti, F. 1999. The abandonment of the ZH-Mozartstrasse early bronze age lake-settlement: GIS computer simulations of the lake-level fluctuation hypothesis. *Oxford Journal of Archaeology* 18(2).

Nunez, M., Vikkula, A. and Kirkinen, T. 1995. Perceiving time and space in an isostatically rising region. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 141-152.

Nunez, M., Okkonen, J., Frachetti, M. and Daly, P. 1997. GIS where altitude is a function of time. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Podobnikar, T., Ostir, K. and Stančić, Z. 1998. Modelling erosion and deposition with GIS. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 95-104.

Spikins, P. 1997. GIS modelling of Holocene vegetation dynamics in Northern England. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Verhagen, P. 1996. The use of GIS as a tool for modelling ecological change and human occupation in the Middle Aguas valley (S.E.Spain). In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 317-324.

Vermeulen, F., De Dapper, M. and Brackman, P. 1998. A GIS-based geo-archaeological approach to survey in a central Anatolian landscape. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 63-80.

Image processing / remote sensing and GIS

Baena Preysler, J. and Blasco, C. 1996. Application of GIS to images and their processing: the Chiribiquete Mountains Project. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 353-360.

Bird, C., Minichillo, T. and Marean, C.W. 2007. Edge damage distribution at the assemblage level on Middle Stone Age lithics: an image-based GIS approach. *Journal of Archaeological Science* 34: 771-780

Chapman., H., Adcock, J., and Gater, J. 2009. An approach to mapping buried prehistoric palaeosols of the Atlantic seaboard in Northwest Europe using GPR, geoarchaeology and GIS and the implications for heritage management. *Journal of Archaeological Science* 36: 2308-2313

Crandell, O. and Bálos, A. 2008. Palaeotopography - the use of GIS software with data derived from resistivity surveys and stratigraphic profiles to reconstruct sites and past terrains. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Dalan, R.A., and Goodman, D. 2007. Imaging paleo-landscapes with downhole susceptibility. In J.T. Clark and E.M. Hagemeister (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

De Laet, V., Paulissen, E. and Waelkens, M. 2007. Methods for the extraction of archaeological features from very high-resolution Ikonos-2 remote sensing imagery, Hisar (southwest Turkey). *Journal of Archaeological Science* 34: 830-841

- Forte, M., Tilia, S., Bizzarro, A. and Tilia, A. 2001. 3D visual information and GIS technologies for documentation of paintings in the M Sepulcher in the Vatican necropolis. In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 25-32.
- Franck, S. 2008. Spectral and GIS analysis for quarry location in ancient Messene, Greece. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Gallo, D., Ciminale, M., Becker, H. and Masini, N. 2009. Remote sensing techniques for reconstructing a vast Neolithic settlement in Southern Italy. *Journal of Archaeological Science* 36: 43-50
- Garrison, T.G., Houston, S.D., Golden, C., Inomata, T., Nelson, Z. and Munson, J. 2008. Evaluating the use of IKONOS satellite imagery in lowland Maya settlement archaeology. *Journal of Archaeological Science* 35: 2770-2777
- Gisiger, A., Cooper, E., Yuan, Y. and Limp, F. 1997. Development and implementation of a rapid low-cost photogrammetric data archival system for artefact and osteological inventory. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Goossens, R., De Wulf, A., Bourgeois, J., Gheyle, W. and Willems, T. 2006. Satellite imagery and archaeology: the example of CORONA in the Altai Mountains. *Journal of Archaeological Science* 33: 745-755
- Grosman, D. 2001. Air photo transcription of archaeological features in specific and marginal environments. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 145-155.
- Kvamme, K.L. 2007. Four years of remote sensing at the Double Ditch State historic site, North Dakota. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Madry, S. 2007. An evaluation of Google Earth for archaeological exploration and survey. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Music, B. 2001. An evaluation of the potential of geophysical prospection in difficult environments: the silence presence of GIS. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 127-144.
- Ostir, K., Stančič, Z. and Trusnovec, M. 1999. Multispectral classification of satellite images. In M. Gillings, D. Mattingly and J. van Dalen (eds). *Geographical Information Systems and landscape archaeology: the archaeology of Mediterranean landscape 3*. Oxford: Oxbow: 125-132.
- Rowlands, A. and Sarris, A. 2007. Detection of exposed and subsurface archaeological remains using multi-sensor remote sensing. *Journal of Archaeological Science* 34: 795-803.
- Saligny, L. and Goguiuey, R. 2003. An association of computerised data processing, image processing of aerial photographs, GPS measurements, GIS: the princely site of Vix and its surroundings. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

Siart, C., Eitel, B. and Panagiotopoulos, D. 2008. Investigation of past archaeological landscapes using remote sensing and GIS: a multi-method case study from Mount Ida, Crete. *Journal of Archaeological Science* 35: 2918-2926

Traviglia, A. 2007. MIVIS hyperspectral sensors for the detection and GIS supported interpretation of subsoil archaeological sites. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Vafidis, A., Economou, N. and Sarris, A. 2003. Geophysical data presentation using GIS. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

Watters, M. 1999. GPR analysis and modelling with GIS applications, Empuries, Spain. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].

Intra-site analysis and excavation

Allison, P. 2008. Measuring women's influence on Roman military life: using GIS on published excavation reports from the German frontier. *Internet Archaeology* 24.

Biro, K. and Fejes, I. 1995. GIS applications at the Hungarian National Museum, department of information. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 261-268.

Biswell, S., Cropper, L., Evans, J., Gaffney, V. and Leach, P. 1995. GIS and excavation: a cautionary tale from Shepton Mallet, Somerset, England. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 269-286.

Chapman, H. and Fenwick, H. 2002. Contextualising previous excavation: the applications of applying GPS survey and GIS modelling techniques to Watton Priory, East Yorkshire. *Medieval Archaeology* XLVI: 81-89.

Constantinidis, D. 2001. Introspective sitescaping with GIS. In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 165-172.

Constantinidis, D. 2002. Building, building on the wall: a reflection of actual building dimensions? In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 29-34.

Cogle, L. 2008. Dress and social identities: the role of GIS in mapping social structure in the central Italian iron age cemetery of Osteria dell'Osa. *Internet Archaeology* 24.

Craig, N. 2000. Real-time GIS construction and digital data recording of the Jiskairumoko Excavation, Peru. *SAA Bulletin* 18(1): 24-28.

Csaki, G., Jerem, E. and Redo, F. 1995. Data recording and GIS applications in landscape and intra-site analysis: case studies in progress at the archaeological institute of the Hungarian Academy of Sciences. In G. Lock and Z. Stančič (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 85-100.

- Dekoli, M. and Hadzilacos, T. 1999. A GIS and hypertext-based system for excavation documentation. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Fernández, J.I.F., and Solé, J.M.M. 2007. FormaTarraconis? GIS use for urban archaeology. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Fronza, V., Nardini, A., Salzotti, F. and Valenti, M. 2001. A GIS solution for excavations: experience of the Siena University LIAAM. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 173-178.
- Harris, T.M. and Lock, G. 1996. Multi-dimensional GIS: exploratory approaches to spatial and temporal relationships within archaeological stratigraphy. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 307-316.
- Holdaway, S., Fanning, P. and Witter, D. 1997. GIS analysis of artefact distributions on an eroding landscape: the western New South Wales archaeological project. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Huggett, J. 2000. Looking at intra-site GIS. In K. Lockyear, T. Sly and V.M. Birliba (eds). *Proceedings of the 24th CAA held at the Institute of Archaeology and the A.I.I.Cuza University, Iasi, Romania, from 25-27th March 1996*. Oxford: BAR S845: 117-122.
- Katsianis, M. 2004. Stratigraphic modelling of multi-period sites using GIS: the case of neolithic and early bronze age Knossos. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Katsianis, M., Tsipidis, S., Kotsakis, K. and Kousoulakou, A. 2008. A 3D digital workflow for archaeological intra-site research using GIS. *Journal of Archaeological Science* 35: 655-667
- Laurenza, S. and Putzolu, C. 2002. From stratigraphic unit to the mouse: a GIS based system for the excavation of historical complex - the case study of Pompeii. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 93-104.
- Levy, E. 1997. GIS analysis of settlement transformations: a case-study of the highlands of Canaan in the Bronze and Iron ages. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Machacek, J. and Kucera, M. 2004. GIS and the excavation of the early medieval centre in Pohansko, Czech Republic. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Meffert, M. 1995. Spatial relations in Roman iron age settlements in the Assendelver Polders, the Netherlands. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 287-300.
- Merlo, S. 2004. The contemporary mind: 3D GIS as a challenge in excavation practice. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Miller, P. 1995. The York archaeological assessment: computer modelling of urban deposits in the city of York. In Wilcock, J. and Lockyear, C. (eds). 1995. *Proceedings of the 21st CAA conference held at Staffordshire University, Stoke on Trent, 3-8th April 1993*. Oxford: BAR S598: 149-154.

Miller, P. 1996. Digging deep: GIS in the city. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 369-378.

Music, B. and Slapsak, B. 1998. GIS in on-site analysis: Rodik, Slovenia. In J. Peterson (ed.). *The use of Geographic Information Systems in the study of ancient landscapes and features related to land use*. Brussels: EU: 81-94.

Mytum, H. 1996. Intrasite patterning and the temporal Dimension using GIS: the example of Kellington Churchyard. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 363-368.

Norbach, L. 1997. Drensted: backlog problems in Danish archaeology. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Pessina, M. 2001. data integration and intra-site spatial analysis of the Castellaro del Vho. In Z. Stančič and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 179-183.

Quesada Sanz, F., Baena Preysler, J. and Blasco Bosqued, C. 1995. An application of GIS to intra-site spatial analysis: the Iberian Iron Age cemetery of El Cigarralejo (Murcia, Spain). In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 137-146.

Rossi, S. and Maggi, R. 2004. Managing different scales in intra-site and micro-regional analyses using GIS. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Slapsak, B., Eric, M., Music, B. and Plevnik, D. 2001. Landscape structures survey in the chora of Pharos: GIS support, visualisation and landscape micro-analysis. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 81-93.

Šmejda, L. and Turek, J. (eds). 2004. *Spatial analysis of funerary areas*. Plzeň: University of West Bohemia, Department of Archaeology: 57-68.

Theunissen, T. 1997. A GIS approach to the spatial analysis of rock-shelter sites. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].

Vullo, N., Fontana, F. and Guerreschi, A. 1999. The application of GIS to intra-site spatial analysis: preliminary results from Alpe Veglia (VB) and Modeval de Sora (BL), two mesolithic sites in the Italian Alps. In J. Barcelo, I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 111-116.

Predictive (and site locational) modelling

Brandt, R., Groenewoudt, B.J. and Kvamme, K.L. 1992. An experiment in archaeological site location: modelling in the Netherlands using GIS techniques. *World Archaeology* 24 (2): 268-282.

Carmichael, D. 1990. GIS predictive modelling of prehistoric site distributions in central Montana. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 216-225.

- Cattani, M., Fiorini, A. and Rondelli, B. 2004. Computer applications for a reconstruction of archaeological stratigraphy as a predictive model in urban and territorial contexts. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Dalla Bona, L. and Larcombe, L. 1996. Modeling prehistoric land use in Northern Ontario. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 252-271.
- Dalla Bona, L. 2000. protecting cultural resources through forestry management planning in Ontario using archaeological predictive modeling. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 73-100.
- Dalla Bona, L. 2001. Incorporating archaeological predictive modeling into land use planning. In B. Slapsak (ed.). *On the good use of geographic information systems in archaeological landscape studies*. Brussels: EU: 37-43.
- Dann, M.A. and Yerkes, R.W. 1994. Use of Geographic Information Systems for the spatial analysis of Frankish settlements in the Korinthia, Greece. In Kardulias, P.N. (ed.). *Beyond The Site: regional studies in the Aegean area*: 289-312. Maryland: University Press of America.
- De Vries, P. 2008. Archaeological predictive models for the Elbe valley around Dresden, Saxony, Germany. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Duncan, R. and Beckman, K. 2000. The application of GIS predictive site location models within Pennsylvania and West Virginia. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 33-58.
- Ebert, J. 2000. The state of the art in “inductive” predictive modeling: seven big mistakes (and lots of smaller ones). In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 129-134.
- Esquivel, J., Pena, J., Rodriguez-Ariza, M. 1999. Multivariate statistic analysis of the relationship between archaeological sites and the geographical data of their surroundings. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Finke, P.A., Meylemans, E. and van de Wauw, J. 2008. Mapping the possible occurrence of archaeological sites by Bayesian inference. *Journal of Archaeological Science* 35: 2786-2796
- Garcia, A. 2008. Predictive models and the evolution of tree vegetation during the final Pleistocene – Holocene transition. A case study from the Asón river valley (Cantabria, Spain). In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.
- Hasenstab, R. and Resnick, B. 1990. GIS in historical predictive modelling: the Fort Drum project. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 284-306.

- Hasenstab, R. 1996. Settlement as adaptation: variability in Iroquois village site selection as inferred through GIS. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 223-241.
- Hatzinikolaou, E., Hatzichristos, T., Siolas, A. and Mantzourani, E. 2003. Predicting archaeological site locations using GIS and fuzzy logic. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Howey, M.C.L. 2007. Using multi-criteria cost surface analysis to explore past regional landscapes: a case study of ritual activity and social interaction in Michigan, AD 1200–1600. *Journal of Archaeological Science* 34: 1830-1846
- Kamermans, H. and Wansleeben, M. Predictive modelling in Dutch archaeology: joining forces. In J. Barcelo, I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 225-230.
- Kamermans, H., Deeben, J., Hallewas, D., van Leusen, M., Verhagen, P. and Zoetbrood, P. 2004. Deconstructing the crystal ball: the state of the art in predictive modeling. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Kuna, M. and Adelsbergerova, D. 1995. Prehistoric location preferences: an application of GIS to the Vinorsky Potok project, Bohemia, the Czech republic. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 117-132.
- Kvamme, K. 1992. Terrain form analysis of archaeological location through Geographic Information Systems. In G. Lock and J. Moffett (eds). *Computer applications and quantitative methods in archaeology 1991*. Oxford: BAR S577: 127-136.
- Kirkinen, T. 1997. Centre in the wilderness area: using a GIS in modelling late Iron Age settlement in eastern Finland. In I. Johnson and M. North (eds). *Archaeological applications of GIS*. Sydney: Sydney University Archaeological Methods Series 5 [CD-ROM].
- Marozas, B. and Zack, J. 1990. GIS and archaeological site location. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 165-172.
- Mathur, R. 2007. Predictive modeling of the Indus civilization port sites in the Gujarat: site location through rules-based predictive modeling. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua. [CD ROM]
- Morgan, C. 2008. Reconstructing prehistoric hunter–gatherer foraging radii: a case study from California's southern Sierra Nevada. *Journal of Archaeological Science* 35: 247-258
- Munch, U. 2003. Conceptual aspects of the Archaeoprognose Brandenburg project: archaeological site predictions for various test areas in Brandenburg. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.
- Pelfer, G. 2007. The cost surface analysis as a predictive model for the reconstruction of the ancient road network in the territory of the protohistorical Tarquinia. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

- Rua, H. 2007. Geographic information systems in archaeological analysis – GisArchaeo. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Rua, H. 2009. Geographic information systems in archaeological analysis: a predictive model in the detection of rural Roman villae. *Journal of Archaeological Science* 36: 224-235
- Stančić, Z. and Kvamme, K. 1999. Settlement pattern modelling through Boolean overlays of social and environmental variables. In J. Barcelo, I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 231-238.
- Stančić, Z., Veljanovski, T., Ostir, K. and Podobnikar, T. 2001. Archaeological predictive modelling for highway construction planning. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 233-238.
- Tremari, M. 2007. Towards the bronze age settlement models of a northern Apennines valley (Val di Vara, La Spezia, Italy). In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Van Leusen, M. 1999. GIS and locational modelling in Dutch archaeology: a review of current approaches. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 177-197.
- Verhagen, P. and Berger, J. 2001. The hidden reserve: predictive modelling of buried archaeological sites in the Tricastin-Valdaine region (middle Rhone Valley, France). In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 219-232.
- Warren, R. 1990. Predictive modelling in archaeology: a primer. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 90-111.
- Warren, R. 1990. Predictive modelling of archaeological site location: a case study in the Midwest. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 201-215.
- Warren, R. and Asch, D. 2000. A predictive model of archaeological site location in the Eastern Prairie Peninsula. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 5-32.
- Westcott, K.L. and Brandon, R.J. 2000. *Practical applications of GIS for Archaeologists: a predictive modelling kit*. New York: Taylor & Francis.
- Wescott, K. 2000. Introduction. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 1-4.
- Wescott, K. and Kuiper, J. 2000. Using a GIS to model prehistoric site distribution in the Upper Chesapeake Bay. In Wescott, K. and Brandon, R. 2000. *Practical applications of GIS for archaeologists: a predictive modeling kit*. New York: Taylor & Francis: 59-72.
- Wheatley, D. 1996. Between the lines: the role of GIS-based predictive modelling in the interpretation of extensive survey data. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 275-292.

Wheatley, D. 2004. Making space for an archaeology of place. *Internet Archaeology* 15:
<http://intarch.ac.uk/journal/issue15/index.html>

Whitley, J. 2004. Causality and cross-purpose in archaeological predictive modelling. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Whitley, T.G., and Burns, G. 2007. An explanatory framework for predictive modeling using an example from Marion, Horry, Dillon, and Marlboro counties, South Carolina. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Whitley, T.G. and Burns, G. 2008. Conditional GIS surfaces and their potential for archaeological predictive modelling. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2–6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Zubrow, E. 1990. modelling and prediction with geographic information systems: a demographic example from prehistoric and historic New York. In Allen, K., Green, S. and Zubrow, E. (eds). *Interpreting space: GIS and archaeology*. New York: Taylor & Francis: 307-318.

Time and temporality

Arroyo-Bishop, D. and Lantanda-Zarzosa, M. 1995. To be or not to be: will object-space-time GIS/AIS become a scientific reality or end up an archaeological entity? In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 43-54.

Branting, S. 2007. Using an urban street network and a PGIS-T approach to analyze ancient movement. In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Castleford, J. 1992. Archaeology, GIS, and the time dimension: an overview. In G. Lock and J. Moffett (eds). *Computer Applications and Quantitative Methods in Archaeology 1991*. Oxford: BAR S577: 95-104.

Ceccarelli, L. and Niccolucci, F. 2003. Modelling time through GIS technology: the ancient Prile lake (Tuscany, Italy). In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

Daly, P. and Lock, G. 1999. Timing is everything: commentary on managing temporal variables in geographic Information Systems. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 287-293.

Johnson, I. 1999. mapping the fourth dimension: the TimeMap project. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].

Johnson, I. And Wilson, A. 2002. The TimeMap kiosk: delivering historical images in spatio-temporal context. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 71-78.

Johnson, I. 2004. Aoristic analysis: seeds of a new approach to mapping archaeological distributions through time. In Ausserer, K., Borner, W., Goriány, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227: 448-452.

Johnson, I. 2004. Putting time on the map. *Geoinformatics* 7: 26-29.

Langran, G. 1992. *Time in Geographic Information Systems*. London: Taylor & Francis.

Lock, G. and Daly, P. 1999. Looking at change, continuity and time in GIS: a recent example from the Sangro valley, Italy. In J. Barcelo., I. Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 259-264.

Lucas, G. 2005. *The archaeology of time*. Abingdon: Routledge.

Peuquet, D.J. 1994. It's about time: a conceptual framework for the representation of temporal dynamics in Geographic Information Systems. *Annals of the Associate of American Geographers* 84: 441-461.

Peuquet, D.J. 2001. Making space for time: issues in space-time data representation. *Geoinformatica* 5: 11-32.

Van Hove, D. 2004. Time and experience: taskscapes within GIS. *Internet Archaeology* 16.

Visibility and viewsheds

Bell, T. 1999. reconstructing archaeology from the landscape: GIS, CAD and the Roman signal station at Whitby. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].

Bitrià, C.R. 2007. A multi-technique GIS visibility analysis for studying visual control of an iron age landscape. *Internet Archaeology* 23.

Chapman, H.P. 2003. Rudston 'Cursus A' - engaging with a Neolithic monument in its landscape setting using GIS. *Oxford Journal of Archaeology* 22, 4: 345-56.

Cummings, V. and Whittle, A. 2004. *Places of special virtue: megaliths in the neolithic landscapes of Wales*. Oxford: Oxbow.

Gaffney, V., Stančić, Z. and Watson, H. 1995. The impact of GIS on archaeology: a personal perspective. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 211-230.

Gaffney, V., Stančić, Z. and Watson, H. 1996. Moving from catchments to cognition: tentative steps toward a larger archaeological context for GIS. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 132-154.

Gillings, M. and Wheatley, D. 2001. Seeing is not believing: unresolved issues in archaeological visibility analysis. In B. Slapsak (ed.). *On the good use of Geographic Information Systems in archaeological landscape studies*. Brussels: EU: 25-36.

Higginbottom, G., Simpson, K. and Clay, R. 2002. Using viewsheds wisely: developing sound methodologies from spatial analyses of megalithic monuments in western Scotland. In G. Burenhult (ed.). *Archaeological informatics: pushing the envelope CAA 2001*. Oxford: BAR S1016: 53-62.

- Khoumeri, E.-H., Santucci, J.-F., and Federici, D. 2007. Hierarchical multi-view representation of spatial data; application to the analysis of Corsican neolithic tombs. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Lageras, K. 2002. Visible intentions? viewshed analysis of bronze age burial mounds in western Scania, Sweden. In C. Scarre (ed.). *Monuments and landscape in Atlantic Europe*. London: Routledge: 179-191.
- Lake, M.W., Woodman P.E. and Mithen, S.J. Tailoring GIS software for archaeological applications: an example concerning viewshed analysis, *Journal of Archaeological Science* **25** (1998) 27-38.
- Lake, M. and Woodman, P. 2003. Visibility studies in archaeology: a review and case-study. *Environment and Planning B*: 30, 689-707.
- Lambers, K. and Sauerbier, M. 2007. A fresh view on the Nasca lines: investigating geoglyph visibility in Palpa (Ica, Peru). In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.
- Lock, G. and Harris, T. 1996. Danebury revisited: an English iron age hillfort in a digital landscape. In M. Aldenderfer and H. Maschner (eds). *Anthropology, space, and Geographic Information Systems*. Oxford: OUP: 214-240.
- Llobera, M. 1996. Exploring the topography of mind: GIS, social space and archaeology. *Antiquity* 70. pp612-622.
- Llobera, M. 2001. Building past landscape perception with GIS: understanding topographic prominence. *Journal of Archaeological Science* 25: 27-38.
- Llobera, M. 2003. "Extending GIS-based visual analysis: the concept of 'visuascapes'?" *International Journal of Geographical Information Science* 17, pp.25-48.
- Loots, L. 1997. The use of projective and reflective viewsheds in the analysis of the Hellenistic city defence system at Sagalassos, Turkey. *Archaeological Computing Newsletter* 49: 12-16.
- Loots, L. Nackaerts, K. and Waelkens, M. 1999. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: [CD-ROM].
- Madry, S. and Rakos, L. 1996. Line-of-sight and cost surface techniques for regional research in the Arroux river valley. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 104-126.
- Nackaerts, K. and Govers, G. 1997. A non-deterministic use of a DEM in the calculation of viewsheds. *Archaeological Computing Newsletter* 49: 3-11.
- Nackaerts, K., Govers, G. and Loots, L. 1999. The use of Monte-Carlo techniques for the estimation of visibility. In L. Dingwall, S. Exon, V. Gaffney, S. Laflin and M. van Leusen (eds). *Archaeology in the age of the internet: CAA97*. Oxford: BAR S750: 63-66.
- Ogburn, D.E. 2006. Assessing the level of visibility of cultural objects in past landscapes. *Journal of Archaeological Science* 33: 405-413

- Ozawa, K., Kato, T. and Tsude, H. 1995. Detection of beacon networks between ancient hillforts using a digital terrain model based GIS. In J. Huggett and N. Ryan (eds). *Computer applications and quantitative methods in archaeology 1994*. Oxford: BAR S600: 157-162.
- Paliou, E. and Wheatley, D. 2007. Integrating spatial analysis and 3D approaches to the study of visual space: late bronze age Akrotiri. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Ruestes, C. 2008. Social organization and human space in north-eastern Iberia during the third century BC. *Oxford Journal of Archaeology* 27: 359-386.
- Ruggles, C., Medyckyj-Scott, D. and Gruffyd, A. 1993. Multiple viewshed analysis using GIS and its archaeological application: a case-study in northern Mull. In J. Andresen, T. Madsen and I. Scollar (eds). *Computing the past: proceedings of the 20th CAA conference*. Aarhus: Aarhus University Press: 125-132.
- Ruggles, C. and Medyckyj-Scott, D. 1996. Site location, landscape visibility, and symbolic astronomy: a Scottish case-study. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 127-146.
- Symonds, L. 2004. Moving through a vision: thoughts on contextual GIS. In Kamermans, H. and Fennema, K. (eds). *Making the connection to the Past: CAA99*. Leiden: CAA
- Tripcevich, N. 2002. Viewshed analysis of the Ilave river valley. Department of Anthropology data paper: University of California, Santa Barbara.
http://titicaca.ucsb.edu/colca/research/papers/datapaper/Tripcevich_Viewshed02.pdf
- Van Leusen, M. 1999. Viewshed and cost surface analysis using GIS (Cartographic modelling in a cell-based GIS II). In J. Barcelo, I, Briz and A. Vila (eds). *New techniques for old times: CAA98*. Oxford: BAR S757: 215-224.
- Van Leusen, M. 2004. Visibility and the landscape: an exploration of GIS modelling techniques. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.
- Wheatley, D. 1995. Cumulative viewshed analysis: a GIS-based method for investigating intervisibility, and its archaeological application. In G. Lock and Z. Stančić (eds). *Archaeology and Geographic Information Systems: a European perspective*. New York: Taylor & Francis: 171-186.
- Wheatley, D. 1996. The use of GIS to understand regional variation in earlier neolithic Wessex. In H. Maschner (ed.). *New methods, old problems: Geographic Information Systems in modern archaeological research*. Carbondale: Southern Illinois University: 75-103.
- Wheatley, D. and Gillings, M. 2000. Vision, perception and GIS: developing enriched approaches to the study of archaeological visibility. In G. Lock (ed.). *Beyond the map: archaeology and spatial technologies*: 1-27. Amsterdam: IOS Press.
- Zamora, M. 2007. Total and cumulative viewshed: an application in the Genil river valley. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.
- Zaplata, R. 2008. Viewshed analysis, regional studies and cultural perception. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Virtual Reality / 3D reconstruction and GIS

Bonfigli, M., Forte, M., Guidazzoli, A., Pescarin, S. and Zane, M. 2004. The Askum project: a VR GIS for a 3D inclusive interaction with an archaeological landscape. In Ausserer, K., Borner, W., Goriany, M. and Karlhuber-Vockl, L. (eds). *Enter the past: proceedings of the 30th CAA conference*. OXFORD: BAR S1227.

Bruno, F., Crugliano, G., Fiorelli, D., Genovese, G., and Muzzupappa, M. 2007. A mythological tale lived again through the virtual reality. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Forte, M. and Guidazzoli, A. 1996. Archaeology, GIS and desktop virtual reality: the ARCTOS project. In H. Kamermans and K. Fennema (eds). *Interfacing the past: computer applications and quantitative methods in archaeology CAA95, vol II*. Leiden: University of Leiden: 443-456.

Forte, M., Bard, K., Fattovich, R., Focillo, M., Manzo, A. and Perlinger, C. 2001. The Askum project (Ethiopia): GIS, remote sensing applications and virtual reality. In Z. Stančić and T. Veljanovski (eds). *Computing archaeology for understanding the past CAA 2000*. Oxford: BAR S931: 241-252.

Gillings, M. 2005. The real, the virtually real, and the hyperreal: the role of VR in archaeology. In S. Smiles and S. Moser (eds) *Envisioning the past: archaeology and the image*. Oxford: Blackwell: 223-239.

Gonçalves, A., and Mendes, A.J. 2007. Virtual reality on web - why not? In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Lieberwirth, U. 2008. 3D GIS voxel-based model building in archaeology. In A. Posluschny, K. Lambers and I. Herzog (eds). *Layers of Perception. Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007. Kolloquien zur Vor- und Frühgeschichte, Vol. 10*. Bonn: Dr. Rudolf Habelt GmbH.

Pescarin, S. 2003. From GIS to virtual reality: DVR systems and the access to cultural heritage. In M. Doerr and A. Sarris (eds). *The digital heritage of archaeology: CAA2002*. Athens: Hellenic Ministry of Culture.

Sanders, D. 2007. Why do virtual heritage? In J.T. Clark and E.M. Hagemester (eds). *Digital Discovery. Exploring New Frontiers in Human Heritage. CAA2006. Computer Applications and Quantitative Methods in Archaeology*. Budapest: Archaeolingua.

Vidal, A., Tartera, E., Alonso, N., Aguiló, C., Junyent, E., and Lorés, J. 2007. Vilars AR project. Testing the augmented reality paradigm in an archaeological site. In A. Figueiredo and G. Leite Velho (eds). *The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005*. Tomar: CAAPortugal.

Winterbottom, S.J. and Long, D. 2006. From abstract digital models to rich virtual environments: landscape contexts in Kilmartin Glen, Scotland. *Journal of Archaeological Science* 33: 1356-1367

Web-based Glossary

The Association for Geographic Information maintain an excellent set of resources including the useful glossary (the GIS dictionary). This can be found at: <http://www.agi.org.uk/>

Works incorporated

CAA 1990 (1991) BAR S565
CAA 1991 (1992) BAR S577
CAA 1992 (1993) Aarhus
CAA 1993 (1995) BAR S598
CAA 1994 (1995) BAR S600
CAA 1995 (1996) *Analecta Praehistorica Leidensia*
CAA 1996 (2000) BAR S845
CAA 1997 (1999) BAR S750
CAA 1998 (1999) BAR S757
CAA 1999 (2004) Leiden CAA
CAA 2000 (2001) BAR S931
CAA 2001 (2002) BAR S1016
CAA 2002 (2003) Hellenic Ministry of Culture
CAA 2003 (2004) BAR S1227
[CAA 2004 remains unpublished - 08/09/09]
CAA 2005 (2007) CAAPortugal
CAA 2006 (2007) *Archaeolingua*
CAA 2007 (2008) Rudolf Habelt
[CAA 2008 remains unpublished - 08/09/09]
Oxford Journal of Archaeology 2004-2009
Internet Archaeology 2004-2009
Journal of Archaeological Science 2004-2009
Archaeology and the information Age (Reilly and Rahtz 1992)
New methods, old problems (Maschner 1996)
GIS and Archaeology (Lock and Stančič 1995)
COST ACTION G2 (Peterson 1998)
Populus GIS (Gillings et al. 1998)
Anthropology, space and GIS (Aldenderfer & Maschner 1996)
Interpreting Space (1990)
Practical applications (Wescott and Brandon 2000)
COST ACTION G2 Ljubljana (Slapsak 2001)
Archaeological Applications of GIS: Sydney [CD-ROM] (Johnson and North 1997)
Mapping the future of the past (Garcia Sanjuan and Wheatley 2002)