

Dr. Neil Sang

Ph D - thesis

Sang, N., 2011, *Visual Topology : A Data Structure for Modeling Landscape Perception*, University of Glamorgan, Glamorgan, Wales. Doctoral Thesis.

Books

Feiden K, Kirchenbauer V, Kruse F, Englisch M, Leitgeb E, Reiter R, Schild A, Ansorge Ch, Biedermann M, Freudenschuß A, [.....], Hurár V, Skalský R, Kováčiková I, Jordan C, Higgins A, Vernik T, Vrščaj B, Hudson G, Lilly A, Sang N, 2013, *Discover INSPIRE compliant harmonised soil data and services. Assessment and Strategic Development of INSPIRE compliant Geodata-Services for European Soil Data. 05/2012*; Publisher: Paris-Lodron University of Salzburg, Austria, Editor: Katharina Feiden and Fred Kruse

Peer reviewed articles in international journals

Sang, N., Ode, Å., Hagerhall, C., *In Press*, *Visual Topology : A New Kind of Visual Landscape Metric*, *Environment and Planning B*.

Dramstad, D.; Sang, N., *Tenancy in Norwegian agriculture.*, (2010) *Land Use Policy*, 27, 946-956.

Ode, A.; Hagerhall, C.; Sang, N., 2010, *Analysing visual landscape complexity: theory and application.*, *Landscape Research*, 35, 111-131.

Sang, N.; Ode, A.; Miller, D., *Landscape metrics and visual topology in the analysis of landscape preference.*, (2008) *Environment and Planning B*, 35, 504-520.

Sang, N., 2008, *Informing common pool resource problems: A survey of preference for catchment management strategies amongst farmers and the general public in the Ythan river catchment.*, *Journal of Environmental Management*, 88, 1161-1174.

Sang, N.; Birnie, R.V.B., 2008, *Spatial sampling and public opinion in environmental management: A case study of the Ythan catchment.*, *Land Use Policy*, 25, 30-42.

Sang, N., Birnie, R.V., Geddes, A., Bayfield, N.G., Midgley, J.L., Shucksmith, D.M. and Elston, D.A., 2005, *Improving the rural data infrastructure: The problem of addressable spatial units in a rural context.*, *Land Use Policy*, 22, 175-186.

Conference presentations

Sang, N., 2011, "New Horizons for the Stanford Bunny – A novel method for view analysis", *Geographical Information Science Research UK, Lancaster*, April 2011.

Sang, N., 2010, "OISIN - Optimised Inventorying of Soil Information Networks", 4th Global Workshop on Digital Soil Mapping, Rome, 24-26th May.

Sang, N., 2008, Return of the Stanford Bunny - definition, computation and application of visual topology., GISRUK, Manchester, 2-4 April, 2008.

Ode, A.; Sang, N., 2007, The influence of vision on calculations of experienced based landscape indicators., Scandinavian Conference on GIS, Asas, Norway, 5-7 September 2007.

Sang, N.; Gold, C.; Miller, D., 2007, Shadow of the standford bunny: Analysing visual models of landscape data using delaunay TIN., Proceedings International Symposium on Voronoi Diagrams in Science and Engineering 2007, (ISVD 2007), 4th, University Glamorgan, Pontypridd, Wales, 9-11 July

2007, IEEE Computer Society, pp294-299.

Sang, N., Ode, A. and Miller, D.R., 2005, Visual topology for analysing landscape change., Landscape Change, ECLAS, Ankara, Sept 2005.

Sang, N., 2004, The topology matrix: a method for extracting and analysing higher order topology from triangular irregular networks., GIS Research, UK, 2004.

Sang, N., 2004, Spatial sampling strategies for assessing public opinion under the Water Framework Directive: a case study of the Ythan project., Proceedings of the European Regional Science Association Congress, Faculty of Economics, Porto, August 2004. (Epainos Award).

Awards Royal Scottish Geographical Society XYZ Digital Award 2005 (<http://www.rsgs.org>)

Dr. Åsa Ode

Ph D - thesis

Ode, Å. 2003. Visual Aspects in Urban Woodland Management and Planning. Acta Universitatis Agriculturae Sueciae Agraria 380. Swedish University of Agricultural Sciences, Uppsala. Doctoral Thesis.

Peer reviewed articles in international journals

Fry, G., Tveit, M.S., Ode, Å. & Velarde, M.D. 2009. The ecology of visual landscapes: exploring the

conceptual common ground of visual and ecological landscape indicator. *Ecological Indicators* 5, 933-947.

Ninjik, M., Zahvoyska, L., Ninjik, A. & Ode, Å. 2009. Public evaluation of landscape content and change: several examples from Europe. *Land Use Policy* 26, 77-86.

Ode, Å. & Fry, G. 2006. A model for quantifying and predicting urban pressure on woodland. *Landscape & Urban Planning*, 77, 17-27.

Ode, Å. & Fry, G. 2002. Visual aspects in urban woodland management. *Urban Forestry and Urban Greening*, 1, 15-24.

Ode, Å., Fry, G., Messenger, P., Miller, D. & Tveit, M. 2009. Indicators of perceived naturalness as drivers of landscape preference. *Journal of Environmental Management* 90, 375-383.

Ode, Å., Hagerhall, C., Sang, N. 2010. Analysing visual landscape complexity: theory and application. *Landscape Research* 35, 111-131.

Ode, Å., Tveit, M.S., Fry, G. 2010. Advantages in using different data sources in assessment of landscape change and its effect on visual scale. *Ecological Indicators* 10, 24-31.

Ode, Å., Tveit, M. & Fry, G. 2008. Capturing landscape visual character using indicators - touching base with landscape aesthetic theory. *Landscape Research*, 33, 89-118.

Sang, N., Ode, Å. & Miller, D. 2008. Landscape metrics and visual topology in the analysis of landscape preference. *Environment and Planning B*, 35, 504-520.

Tveit, M., Ode, Å. & Fry, G. 2006. Key concepts in a framework for analyzing visual landscape character. *Landscape Research*, 31, 229-255.

Tyrväinen, L., Gustavsson, R., Konijnendijk, C. & Ode, Å. 2006. Visualization and landscape laboratories in planning, design and management of urban woodlands. *Forest Policy and Economics*, 8, 811-823.

Conference presentations

Aalders, I., Ode, A., Aitkenhead, M., Hagerhall, C. & Andersson, L. 2008. Fixed or flexible land cover classification for the analysis of landscape functionality? Poster at: IP SENSOR Conference: Impact Assessment of Land Use Change - Multifunctional Land Use, Humboldt University, Berlin,

Germany, 6-

9th April 2008.

Fry, G., Ode, Å., Sundli-Tveit, M., Quine, C. & Watts, K. 2005. Towards multifunctional landscapes: linking visual and ecological landscape indicators. In *Our shared landscape: Integrating ecological, socio-economic and aesthetic aspects in landscape planning and management*. Proceedings edited

by E. Lange & D. Miller. Ascona, Switzerland. May 2 – May 6, 2005. ISBN: 3-906441-07-5

Fry, G., Sundli-Tveit, M. & Ode, Å. 2005. A landscape approach to the development of visual indicators. Oral presentation at European IALE Congress "Landscape Ecology in the Mediterranean". Faro, Portugal March 29 – April 2, 2005.

Miller D., Harthill P., Messenger P., Morrice J., Ode Å. 2008. Developing a national park development plan - participation by younger people. 20th Conference of European Schools of landscape Architecture, Alnarp, 11-13 September 2008. In: *Alnarp 2008 New Landscapes New lives. New challenges in Landscape planning, design and management*. Abstracts for oral and poster presentations.

Ode, Å. 2004. Landscape change and its effects on the visual experience of a case study area in the Öresundsregion. Oral presentation at: ERSA 2004. 25 – 29 August 2004, Porto, Portugal.

Ode, Å. & Andersson L.G.B. 2005. Applying indicators - A Swedish Example. Oral Presentation at: PEERING INTO THE landscapes of the FUTURE workshop. Edinburgh, Scotland. 1st of December.

Ode, Å. & Miller, D. 2008. Analysing the relationship between landscape composition and preference – the combination of GIS and visualisations. Oral presentation at GISRUK, Manchester, UK. 2-4 April, 2008.

Ode, Å. & Miller, D. 2005. Analysing visual aspects of landscape: a comparison of different approaches for a Swedish case study area. Poster. In: Lange, E. & Miller, D. (Ed.) 2005. *Proceedings for Our shared landscape*, Ascona, Switzerland. 2 - 6 May 2005.

Ode, Å. & Miller, D. 2004. Analysing the woodland content of views – the influence of linear and clustered woodland features on the visual landscape. Oral presentation at: GISRUK 2004. 28-30th April. University of East Anglia, Norwich, UK.

Ode, Å. & Miller, D. 2005. Analysing and communicating landscape change: the VisuLands toolkit.

Oral presentation. In: Gökyer, E, Oğuz, D, Karadeniz, N & Çakci, I. (Eds.) 2005. Proceedings for 17th Annual Meeting of ECLAS "Landscape Change", Ankara, Turkey, 14 - 18th September 2005.

Ode, Å., Miller, D. & Bell, S. 2003. Diversity as a landscape indicator. A comparison of plan and visual diversity of landcover. Poster at: Crossing Frontiers - Landscape Ecology Down Under, IALE World Congress 2003. Darwin, Australia. 13-17 July, 2003.

Ode, Å., Miller, D., Messenger, P., Fry, G., Tveit, M., Pascoa, F. 2006. Landscape Preferences as a tool for evaluating landscape change. Oral Presentation at Landscape change Learning from the past - visions for the future. Tromsø, Norway. 14-15 June 2006.

Ode, Å. & Sang, N. 2007. The influence of vision on calculations of experienced based landscape indicators. Oral presentation at ScanGIS, Ås, Norway, September 2007.

Ode, Å., Tveit, M.S. & Fry, G. 2008. The VisuLands framework: A data flexible framework for analysing visual landscape character, Poster at: IP SENSOR Conference: Impact Assessment of Land

Use Change - Multifunctional Land Use, Humboldt University, Berlin, Germany, 6-9th April 2008.

Tveit, M, Fry, G & Ode, Å. 2006. Indicators of visual character - a theory based approach. Oral presentation at ISSRM conference, "Social Sciences in Resource Management – Global Challenges and Local Responses", Vancouver, June 3 – 8, 2006.

Reports

Axelsson-Lindgren C., Gyllin, M. & Ode, Å. 2002. Skogsupplevelse: Fältförsök i Tranemåla. Rapport 02:6 Dept. Of Landscape Planning Alnarp. SLU.

Gustafsson, L., Dahlberg, A., Green, M., Henningsson, S., Hägerhäll, C., Larsson, A., Lindelöw, Å., Lindhagen, A., Lundh, G., Ode, Å., Ranius, T., Sandström, J., Strengbom, J., Svensson, R. & Widenfalk, O. 2009. Konsekvenser för kulturarv, friluftsliv, landskapsbild och biologisk mångfald. Faktaunderlag till MINT-utredningen. SLU, Rapport. ISBN 978-91-86197-45-2.

Gustavsson, R., Jönsson, A., Ode, Å., 2003. NeighbourWoods, good practices: prospective management . In: Koninwendijk, C. & Schipperijn, J. 2003. Good practice in urban woodland planning

and design. <http://www.sl.kvl.dk/euforic/docs/NeighbourWoods/NBWgood-practicemanagement.pdf>

Miller, D.R, Bell, S., Wood, M., Morrice, J.G., Ball, J., Ward-Thompson, C. and Ode, Å. 2003.

Landscape Capacity Study for Windfarm Development in East and North Highland, and Moray.

Project report to SNH, Scotland.

Miller, D.R., Morrice, J., Horne, P., Bell, S. and Ode, Å. 2007. Landscape change and development: National and international indicators. Scottish Natural Heritage, Contract Report.

Mårtensson, A-L., Ode, Å. (Eds.) 2001. Landskapsförändringar i tid och rum. Rapport 01:3. Dept. of Landscape Planning Alnarp. SLU.

Ode, Å. 2000. Skötselintentioner i plan och handling - fallet Furulunds fure. Rapport 00:3 Dep. of Landscape Planning Alnarp, SLU. Alnarp.

Ode, Å. Gustavsson R. (Eds.) 1999. Sustainable Landscape Management in Southern Scandinavia -

Ph.D. course 1998. Rapport 99:1 Dep. of Landscape Planning Alnarp.