
LIST OF PUBLICATIONS

Tuuli Toivonen

University of Helsinki

Department of Geography

http://www.helsinki.fi/geography/Tuuli_Toivonen/

tuuli.k.toivonen@helsinki.fi

Articles in refereed scientific journals

Salo M. & Toivonen T. (*In Press*) Tropical Timber Rush in Peruvian Amazonia: Spatial Allocation of Forest Concessions in an Uninventoried Frontier. *Environmental Management*.

Christenhusz, M.J.M. & **Toivonen**, T.K. (2008) Giants invading the tropics: the oriental vessel fern, *Angiopteris evecta* (Marattiaceae). *Biological Invasions* 10: 1215–1228.

Kalliola, R., **Toivonen**, T., Miyakawa, V. & Mavila, M. (2008) Open access to information bridges science and development in Amazonia: lessons of the SIAMAZONIA service. *Environmental Research Letters* 3: 34-40.

Toivonen, T., Mäki, S. & Kalliola, R. (2007) The riverscape of Western Amazonia – a quantitative approach to the fluvial biogeography of the region. *Journal of Biogeography* 34: 1374–1387.

Schulman, L., **Toivonen**, T. & Ruokolainen, K. (2007) Analysing botanical collecting effort in Amazonia and correcting for it in species range estimation. *Journal of Biogeography*, 34: 1388–1399.

Heikkinen, R. Luoto, M., Kuussaari, M. & **Toivonen**, T. (2007) Performance of butterfly-landscape models depends on modelling technique, scale and model complexity. *Landscape and Urban planning* 79: 347-357.

Toivonen, T. (2006) Landscape Information in Quantitative Biogeography: In Search of a Balance Between Resolution and Extent. *Annales Universitatis Turkuensis* A11:190.

Toivonen, T., Kalliola, R., Ruokolainen, K. & Malik, R.N. (2006) Across-path DN gradient in Landsat TM imagery of Amazonian forests: a challenge for image interpretation and mosaicking. *Remote Sensing of Environment* 100: 550-562.

Toivonen, T. & Luoto, M. (2003) Landsat TM images in mapping of semi-natural grasslands and analysing of habitat pattern in an agricultural landscape in south-west Finland. *Fennia* 181: 49–67.

Luoto, M., **Toivonen**, T. & Heikkinen, R. K. (2002) Prediction of total and rare plant species richness from satellite images and GIS data in agricultural landscapes. *Landscape Ecology* 17: 195-217.

Luoto, M., Kuussaari, M. & **Toivonen**, T. (2002) Analyzing and modeling distribution of a threatened butterfly using satellite images and GIS. *Journal of Biogeography* 29: 1027–1037.

Articles in refereed scientific edited volumes and conference proceedings

Schulman, L., **Toivonen**, T. & Ruokolainen, K. (2007) Botanical Collecting Effort in Amazonia. *Proceedings of the 3rd Global Botanic Gardens Congress*, Wuhan, China, April 2007, published online at www.bgci.org/wuhan

Toivonen T., Kalliola R. & Ennola E. (2006) Data lending facility – the innovative download service of the Finnish NSDI? *Proceedings of the 12th EC GI & GIS Conference: From Innovation to Inspiration*, 21.-23.7.2006, Innsbruck, Austria. p. 110-112.

Vasanen, A. & **Toivonen T.** (2006) Distributed Data Management in Internet Map Services Experiences from Lounaispaikka Thematic Atlas. *Proceedings of the 12th EC GI & GIS Conference: From Innovation to Inspiration*, 21.-23.7.2006, Innsbruck, Austria. p. 32-33.

Toivonen, T. & Kalliola, R. (2005) Spatial Data Lending Facility: a Finnish addition to INSPIRE services. *Proceedings of AGILE 2005 Conference*, Lisbon, Portugal 25.-28.5.2005.

Toivonen, T. & Kalliola, R. (2005) Spatial data lending facility – Test service for comparison of GI data sets. in Toppen, F. & Painho, M. (eds.) *Agile 8th Conference on geographic information science*. p. 5

Vuorela, N. & **Toivonen, T.** (2003) Can the past suggest the present day biodiversity? – detecting and classifying change transitions in the landscape. *Teoksessa Mander, U & Antrop, M. (eds.): Multifunctional Landscapes - Vol III: Continuity and Change*, 135-166. WIT Publications.

Toivonen, T. Kalliola, R. & Ruokolainen, K. (2002) Gradient phenomenon in Amazonian Landsat TM images: true or illusion? *Proceedings of the Second Workshop of the EARSeI Special Interest Group on Remote Sensing for Developing Countries*, Bonn, Germany September 18-20, 2002: 43-50.

Toivonen, T. & Mäki, S. (2002) Integrating satellite image mosaic and vector based GIS for studying human-environment interactions in the Western Amazonia. *In Ehlers, M. (ed.) Remote sensing for environmental monitoring, GIS applications, and geology. Proceedings of SPIE*, vol. 4545:145-154.

Burnett, C. & **Toivonen, T.** (2001) Applicability of semi-automated individual tree crown delineation and multi-scale segmentation to ecological mapping, *In Belward, A., Binaghi, E., Brivio, P. A., Lanzarone, G. A. and G. Tosi (eds) Proceedings of International Workshop on Geo-Spatial Knowledge Processing for Natural Resource Management. June 28-29, 2001 - University of Insubria, Varese (Italy)*, pp. 209-212.

Burnett C., Vuorela N. & **Toivonen, T.** (2001) Different connotations of time in landscape research, *In Mander, U, Printsman, A and H. Palang (eds): Proceedings of the IALE Europe, Stockholm/Tartu June 30-July 6 2001. Publicationes Instituti Geographici Universitatis Tartuensis, Tartu*, pp. 101-106.

Toivonen, T. (2001) Compiling knowledge on Finnish biodiversity. *Proceedings of the IALE Europe, Stockholm/Tartu June 30-July 6 2001. Publicationes Instituti Geographici Universitatis Tartuensis, Tartu*, p. 796.

Toivonen, T. & Luoto, M. (2000) Mapping of landscape structure and the location of semi-natural grasslands using Landsat TM and GIS: a case study from SW Finland. *Proceedings of AGILE 2000, May 25th-27th, Helsinki/Espoo, Finland*.

Textbooks

Ervasti, V., Kytömäki, J., Paananen, J. & **Toivonen, T.** (2007) *Globus Aluetutkimus*. Oppikirja lukion maantieteeseen. WSOY, Helsinki

Löytönen, M., **Toivonen, T.** & Kankaanrinta, I.-K. (2003) *Globus GIS*. Oppikirja lukion maantieteeseen. WSOY, Helsinki

Tiainen, J., Kuussaari, M., Laurila, I. & **Toivonen T.** (Toim.) (2004) *Elämää pellossa - Suomen maatalousympäristön monimuotoisuus*. 366 pp.

Printed reports

Toivonen, T., Kalliola, R., Ennola, E. & Välimäki, T. (2006) Paikkatietolainaaamo: kansallisen infrastruktuuripalvelun kehitys vuosina 2004 – 2006. *UTU-LCC Publications* 11. 91 pp.

Toivonen T. & Kalliola R. (2006). Building networks and services for geographical information: Lessons learnt in the ENVIFACILITATE project. *UTU-LCC Publications* 12. 62 pp.

Toivonen, T., Vasanen A. & Kalliola R. (2006). Requirements and guidelines for Compatible Environmental Information Facilities. *UTU-LCC Publications* 10. 52 pp.

Sarvala, M., Vieno, M. & **Toivonen, T.** (eds.) (2005). Observations on observations. *UTU-LCC Publications* 9. 109 pp.

Kalliola R. & **Toivonen T.** (2004). Paikkatietolainaaamo kansallisen koealueen pilottina. *UTU-LCC Publications* 6.

Rodriguez Achung, F., Kalliola, R., **Toivonen, T.**, Sanjurjo Vílchez, J., Bendayán Acosta, L., Gómez Ventocilla, D. & Fáchin Malaverri, L. (2004). Manual para elaboración de mosaicos de imágenes de satélite Landsat TM para la selva baja peruana. *Serie Biodamaz - IIAP, documento técnico* 3, 116 pp.

Toivonen, T., Kalliola, R. & Driesprong, A. (2002). Western Amazonian GIS: Creation process of Landsat TM image mosaic and Internet map service. *UTU-LCC Publications* 4.

Toivonen, T. (1999). MapInfo-opetusmoniste. *Helsingin yliopiston maantieteen laitoksen opetusmonisteita* 42.

Selected popular texts and TV shows

Toivonen, T. (2009). Innovaatioiden esteitä poistettava. *Helsingin Sanomat*, Vieraskynä, 27.4.2009.

Toivonen, T. & Kalliola R. (2007). A Novel Solution of the Finish NSDI: Data Lending Service. *Geoinformatics* 10, 7:24-25.

Kalliola, R. & **Toivonen, T.** (2007) Tailor-made Facilities to Enhance Spatial Communication: Services According to User Needs. *Geoinformatics*, 10, 5:20-23.

Mäki, S. & **Toivonen, T.** (2001). Peru – Tyynenmeren rannikkovaltio, Andien ja Amazonin maa. In Ilmonen Anneli & Jyrki K. Talvitie (eds.) *Kultakruunu ja höyhenviitta*. p. 27-34. Tampereen taidemuseo, Finland.

Luoto, M., Kuussaari, M. & **Toivonen, T.** (2003) Maisemarakenteen merkitys luonnon monimuotoisuudelle. In Teoksessa Tiainen, J. Kuussaari, M., Laurila, I. & Toivonen T. (eds.) *Elämää pellossa: Suomen maatalousympäristöjen monimuotoisuus*. Edita, Helsinki

Yle Etälukio TV show: Paikkatietoa 1-2. Two 30-minute TV programmes about GIS and GPS. See videoclip in <http://oppiminen.yle.fi/artikkeli?id=2642>