

2012 Publications

Papers in Journals/Books

Bunruamkaew, K., and Murayama, Y. 2012. Land use and natural resources planning for sustainable ecotourism using GIS in Surat Thani, Thailand. *Sustainability*, 4(3), 412-429.

Estoque, R. C., and Murayama, Y. 2012. Examining the potential impact of land use/cover changes on the ecosystem services of Baguio city, the Philippines: A scenario-based analysis. *Applied Geography*, 35(1-2), 316-326.

Estoque, R. C., and Murayama, Y. 2012. Introducing new measures of accuracy for LUC (land-use/cover) change modeling. *Tsukuba Geoenvironmental Sciences*, 8, 3-7.

Estoque, R. C. 2012. Analytic hierarchy process in geospatial analysis. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Estoque, R. C., Estoque, R. S., and Murayama, Y. 2012. Prioritizing areas for rehabilitation by monitoring change in Barangay-based vegetation cover. *ISPRS International Journal of Geo-Information*, 1(1), 46-68.

Khoi, D. D., and Munthali, K. G. 2012. Multispectral classification of Remote Sensing data for geospatial analysis. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Khoi, D. D., and Murayama, Y. 2012. Multilayer perceptron neural networks in geospatial analysis. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Khoi, D. D., and Murayama, Y. 2012. Land suitability assessment using a fuzzy multi-criteria evaluation. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Lwin, K. K., and Murayama, Y. 2012. Mapping the housing types from LIDAR data for micro-scale spatial analysis: A case of Tsukuba City. *Tsukuba Geoenvironmental Sciences*, Vol. 8, 9-15.

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Lwin, K. K., Estoque, R. C., and Murayama, Y. 2012. Data collection, processing and applications for geospatial analysis. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Lwin, K. K., and Murayama, Y. 2012. GIS network model in geospatial analysis. In: Murayama, Y. (ed). *Progress in geospatial analysis*. Tokyo: Springer.

Lwin, K. K., and Murayama, Y. 2012. Web-based interactive walkability measurement using RS and GIS. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Mizutani, C. 2012. Construction of an analytical framework for polygon-based land use transition analyses. Computers, Environment and Urban Systems, 36(3), 270–280.

Munthali, K.G. 2012. Agent based simulation in geospatial analysis. In: Murayama, Y. (ed). Progress in geospatial analysis. Dordrecht: Springer Science +Business Media B.V.

Munthali, K. G., and Murayama, Y. 2012. Watershed evaluation using geospatial techniques. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Munthali, K. G., and Murayama, Y. 2012. Extending agent-based landuse/-cover change models to tropical deforestation: a focus on farm-based decision making in tropical subsistence farming. International Journal of Geographical Information Science, 26(10), 1881-1895.

Murayama, Y. (ed). 2012. Progress in geospatial analysis. Tokyo: Springer.

Murayama, Y. 2012. Development of geospatial analysis. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Thapa, R. B., and Estoque, R. C. 2012. Geographically weighted regression in geospatial analysis. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Thapa, R. B., and Murayama, Y. 2012. Urban growth modeling using Bayesian probability function. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Thapa, R. B., and Murayama, Y. 2012. Scenario based urban growth allocation in Kathmandu Valley, Nepal. Landscape and Urban Planning, 105, 140-148.

Zao, Y., Cui, B., and Murayama, Y. 2012. Neighborhood interaction in urban land-use changes using cellular automata-based geosimulation. In: Murayama, Y. (ed). Progress in geospatial analysis. Tokyo: Springer.

Symposiums and Conferences

Estoque, R. C. 2012. Relationship between non-stationarity of land-cover change and error due to allocation. In Research abstract on spatial information science, CSIS Days 2012, November 2–3, 2012, Chiba, Japan.

Estoque, R. C., and Murayama, Y. 2012. Examining the relationship between error due to allocation in land-cover change modeling and non-stationarity of land-cover change. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan.

Estoque, R. C. 2012. Land use/cover change and landscape fragmentation analysis in Baguio - a hill station city in the Philippines. In proceedings of the JpGU International Symposium 2012, May 20-25, 2012, Tokyo, Japan.

Greger, K. 2012. Spatial analysis of terrorism vulnerability: A case study of Tokyo, Japan. In Research abstract on spatial information science, CSIS Days 2012, November 2–3, 2012, Chiba, Japan.

Greger, K. 2012. Spatial analysis of terrorism vulnerability: A case study of Tokyo, Japan. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan.

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Hanashima, Y., et al. 2012. A method of estimating basal surface of Holocene based on old topography: a case study of Nakagawa lowland. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan. (JE)

Hashimoto, M. 2012. The analysis of changes in the habitat distribution of Japanese deer and Asiatic black bear and the environmental condition in Nagano Prefecture, Japan. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan. (J)

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Lwin, K. K., and Murayama, Y. 2012. Interactive online GIS system for massive surveyed person trip data visualization and space-time analysis. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan.

Lwin, K. K., and Murayama, Y. 2012. Centralized geodatabase and mobile field data collection for university campus information system. In proceedings of the JpGU International Symposium 2012, May 20-25, 2012, Tokyo, Japan.

Lwin, K. K., and Murayama, Y. 2012. Smart Eco-path Finder for Mobile GIS Users. In proceedings of the Geospatial World Forum 2012, April 23-27, 2012, Amsterdam, The Netherlands.

Munthali, K. G. 2012. Multi-agent simulation of deforestation: a subsistence farm-based decision-making approach. In Research abstract on spatial information science, CSIS Days 2012, November 2–3, 2012, Chiba, Japan.

Munthali, K. G. 2012. Simulating deforestation trends of Dzalanyama forest reserve in Malawi using a spatial agent model. In Papers and Proceedings of the Geographic Information Systems Association Conference, October 13–14, 2012, Hiroshima, Japan.

Munthali, K. G. 2012. Multi-agent simulation of farm-based decision making: a deforestation case of Dzalanyama forest reserve, Malawi. In proceedings of the JpGU International Symposium 2012, May 20-25, 2012, Tokyo, Japan.