



2015 Publications and Conferences

Research Articles (Journals, Books, and Book Chapters)

(J: Japanese, JE: Japanese with English abstract)

Estoque, R.C., Murayama, Y., Tadono, T. and Thapa, R.B. (2015). Measuring urban volume: geospatial technique and application. *Tsukuba Geoenvironmental Sciences*, 11, 13–20.

Estoque, R.C. and Murayama, Y. (2015). Intensity and spatial pattern of urban land changes in the megacities of Southeast Asia. *Land Use Policy*, 48, 213–222.

Estoque, R.C. and Murayama, Y. (2015). Classification and change detection of built-up lands from Landsat-7 ETM+ and Landsat-8 OLI/TIRS imageries: A comparative assessment of various spectral indices. *Ecological Indicators*, 56, 205–217.

Estoque, R.C., Murayama, Y. and Akiyama, C.M. (2015). Pixel-based and object-based classifications using high- and medium-spatial-resolution imageries in the urban and suburban landscapes. *Geocarto International*, 30, 1113–1129.

Gong, H. and Murayama, Y. (2015). WEB-GIS for visualizing land use/cover change in mega-cities in developing countries. *Tsukuba Geoenvironmental Sciences*, 11, 21-25.

Greger, K. (2015). Spatio-temporal building population estimation for highly urbanized areas using GIS. *Transactions in GIS*, 19, 129-150.

Khaleda, S. and Murayama, Y. (2015). Identification of suitability of sites for microenterprises for value chain development: A study in Gazipur District, Bangladesh. *Growth and Change*, 46, 274–291.

Morimoto, T. (2015). Geographical examination of agricultural land productivity by the census of agriculture and forestry. In *Proceedings of the General Meeting of the Association of Japanese Geographers*, 88, 814–814. (J)

Munthali, K.G. and Murayama Y. (2015). Modeling deforestation in Dzalanyama Forest Reserve, Lilongwe, Malawi: a multi-agent simulation approach. *GeoJournal*, 80:743–757.

Murayama, Y. (Ed.) (2015). Digital Inoh map (professional edition). Kawade-shobo-shinsha. (CD-ROM). (J)

Murayama, Y. (Ed.) (2015). Digital Inoh map (standard edition). Kawade-shobo-shinsha. (CD-ROM). (J)

Murayama, Y., Estoque, R.C., Subasinghe, H., Hou, H. and Gong, H. (2015). Land-use/land-cover changes in major Asian and African cities. *Annual Report on the Multi Use Social and Economic Data Bank*, 92, 11-58.

Simwanda, M., Sessions, J., Boston, K. and Wing M.G. (2015). Modeling biomass transport on single-lane forest roads. *Forest Science*, 61, 763–773

Conference Presentations

(J: Japanese, JE: Japanese with English abstract)

Estoque, R.C. and Murayama, Y. (2015). A geospatial technique for estimating urban built volume using remote sensing data. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Estoque, R.C., and Murayama, Y. (2015). A geospatial approach for estimating urban volume: A case study of Jakarta and Manila. Presented during the GIS Association of Japan (GISA) Conference 2015, October 10-11, 2015, Keio University, Tokyo, Japan.

Estoque, R.C. and Murayama, Y. (2015). Geospatial analysis of urban landscape patterns in four hill stations of Southeast Asia. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Estoque, R.C., Lwin, K.K. and Murayama, Y. (2015). Remote sensing and Web-GIS for visualizing and analyzing urban land-use/cover changes. Presented during the International Symposium on Cartography in Internet and Ubiquitous Environments 2015, March 17-19, 2015, Tokyo, Japan.

Gong, H. (2015). Monitoring urban growth process with remote sensing techniques: An empirical study of Shanghai, China. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Gong, H., Kusaka, H. and Murayama, Y. (2015). Simulating urban heat island effects by rapid urbanization: A case study of Shanghai, China. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Hou, H., Estoque, R.C. and Murayama, Y. (2015). Spatiotemporal analysis of urban growth in three African capital cities: A grid-cell-based analysis. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Hou, H. (2015). Evaluating walkability through neighborhood design qualities using GIS: A case study of suburban areas in Tokyo. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Liu, K. (2015). Hedonic price modeling of new residential property values in Xi'an City, China. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Liu, K. (2015). Hedonic price modeling of new residential property values in Xi'an City, China. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Morimoto, T. (2015). Geographical examination of agricultural land productivity by the census of agriculture and forestry. Presented during the General Meeting of the Association of Japanese Geographers, March 28-30, 2015, Nihon University, Japan. (J)

Niloofer, H.A.M. (2015). Relation between urban traffic accidents and urban structures from spatial perspective. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Niloofer, H.A.M. (2015). Investigation between urban traffic accidents and urban structures from spatial perspective. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Simwanda, M. (2015). Spatiotemporal analysis of land use/cover changes and urban expansion in Lusaka City, Zambia. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Simwanda, M. (2015). Spatial analysis of land use/cover changes and urban expansion in Lusaka City, Zambia. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Siriwardana, M.H., Murayama, Y. and Estoque, R.C. (2015). A WebGIS platform for repository, processing and disseminating urban land-use/cover maps. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Subasinghe, S. and Murayama, Y. (2015). Spatial comparison of population density of the largest cities in the world: Distance decay effect from the city center. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Subasinghe, S. (2015). Functional and morphological dynamics: Colombo city, Sri Lanka. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.

Voulgaris, G. (2015). Spatio-temporal assessment of tsunami vertical evacuation: A case study of the Shizuoka metropolitan area. Presented during the Center for Spatial Information Science (CSIS) Days 2015, November 19-20, 2015, University of Tokyo, Japan.

Voulgaris, G. (2015). Tsunami vertical evacuation potential analysis in the Shizuoka metropolitan area. Presented during the Japan Geoscience Union (JpGU) Meeting, May 24-28, 2015, Makuhari Messe, Chiba, Japan.