

Reviewed Research Articles, Book Series, Book Chapters:

Le, Q.B., Tamene, L.D., Vlek, L.G. (in preparation). Assessing the spatio-temporal dynamics of land degradation in Sub-Saharan Africa using time-series AVHRR NDVI data and CRU dataset.

Segai, D. and **Le, Q.B.** (in preparation). Inter-district migration flows in Ghana: analysis of socio-economic and environmental factors. *Applied Spatial Analysis and Policy*

Le, Q.B., Park, S.J., and Vlek, P.L.G. (in preparation) Land use dynamic simulator (LUDAS): a multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system. 2. Scenario-based applications. *Ecological Informatics*.

Le, Q.B., Park, S. J., and Vlek, P.L.G. (in preparation) An empirical approach to model crop yield dynamics within a spatial multi-agent system for a mountainous region of Central Vietnam.

Le, Q.B., Schindler, J., Gleisberg, K., Laube, W., Tamene, L., Vlek, P.L.G (in preparation). A multi-agent based decision support tool for the management of land resources in Volta basin. Special Issue “*Land Use and Environmental Sustainability*”, *Sustainability Science* (Abstract accepted for full paper submission).

Vlek, P.L.G., **Le, Q.B.**, Tamene, L. (submitted). African land degradation in a world of atmospheric change. *Science*.

Le, Q.B., Park, S. J., Vlek, P.L. G. (submitted) Household typologies and socio-ecological determinants of their land-use choices in Vietnam forest margins: implications for empirical multi-agent modeling. *Journal of Land Use Science*.

Vlek, P.L.G., **Le, Q.B.** and Tamene, L. (2008). *Land decline in Land-Rich Africa: a creeping disaster in the making*. CGIAR Science Council Secretariat, Rome, Italy, 62 pp.

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2008) Land use dynamic simulator (LUDAS): a multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system. 1. Structure and theoretical specification. *Ecological Informatics* (In Press) (DOI: 10.1016/j.ecoinf.2008.04.003).

Le, Q.B. (2005) Multi-agent system for simulation of land-use and land-cover change: a theoretical framework and its first implementation for an upland watershed in the Central Coast of Vietnam. *Ecology and Development Series* 29, 296 pp.

Bhuiyan, S.H., **Le, Q.B.** (2002) Decentralizations and Natural Resource Management: A Colombian Case. *Journal of Politics Administration and Changes* 37: 43 - 67.

Beckman, M., Le, V.A., and **Le, Q.B.** (2002) Living with the floods: coping and adaptation strategies of households and local institutions in Central Vietnam. *SEI/WRI Report Series* 5, Stockholm Environment Institute, 65 pp.

Le, Q.B. (2002). Forest management in Hong Ha commune and practical lessons learned. In: Le, Van An (ed.). *Community-Based Natural Resource Management on the Uplands*. The Agricultural Publish House, Hanoi, Vietnam, pp. 99 - 120 [in Vietnamese].

Le, Q.B., Maxwell, J.F., and Elliott, S.D. (2000). Changes in forest plant species composition and bio-indicators for ecological impacts of soil contamination by heavy metals. In: *Research Results in Agricultural and Forest Sciences for the Period 1995 – 1999 in Hue University of Agriculture and Forestry*. The Agricultural Publish House, Hanoi, Vietnam, pp. 415 – 422 [in Vietnamese].

Papers in Conference Proceedings:

Zitzmann, K. and **Le, Q.B.** (2008). Integrated assessment of the impact of a small reservoir on land use and livelihoods in Burkina Faso. Paper accepted for oral presentation at the 13th IWRA World Water Congress: Global Changes and Water Resources, September 1 – 4 2008, Montpellier, France.

Landmann, T., Machwitz, M., **Le, Q.B.**, Tamene, L.D., Vlek, P.L.G., Dech, S., Schmidt, M. (2008). A land cover change synthesis study for the GLOWA Volta Basin in West Africa using time trajectory satellite observations and cellular automation models. Paper accepted for oral presentation in the 2008 IEEE Geoscience and Remote Sensing Symposium, July 6-11 2008, Boston, MA, USA.

Kaplan, M., **Le, Q.B.**, and Renaud, F. (2007). Land-use change, mangrove destruction, and vulnerability in Maduganga lagoon, Sri Lanka: Empirical analyses towards agent-based modelling. In: Deutsche Tropentag 2007 "Utilisation of Diversity in Land Use Systems: Sustainable and Organic Approaches to Meet Human Needs". October 9 -11, 2007, University of Kassel-Witzenhausen, Germany, 5 pp. Available On-line <http://www.tropentag.de/2007/abstracts/full/441.pdf>

Published abstracts and summaries:

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2007). A multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system in forest margins: conceptual framework and theoretical application. In: Addink, E., Barendregt, A., Karssenber, D., and de Nijs, T. (Eds.) *Framing Land Use Dynamics II*. Proceedings of International Conference, April 18 – 20, Utrecht University, The Netherlands, p. 114.

Le, Q.B., Tamene, L.D., Landman, T., Rodgers, C., and Vlek, P.L.G. (2007). A cellular automata approach to simulating land-use/land-cover changes in the White Volta basin In: Addink, E., Barendregt, A., Karssenber, D., and de Nijs, T. (Eds.) *Framing Land Use Dynamics II*. Proceedings of International Conference, April 18 – 20, Utrecht University, The Netherlands, p. 113.

Le, Q.B., and Vlek, P.L.G. (2006) Integrated land-use modelling to support land management decisions for the Central Coast of Vietnam. ZEF News No. 18: 4.

Le, Q.B., Vlek, P.L.G, and Park, S.J. (2005) A multi-agent simulation model of land-use and land-cover change for an upland watershed in the Central Coast of Vietnam. In: Stietenroth, D., Lorenz, W., Tarigan, S., and Malik, A. (eds.). *The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints of Land Use and Conservation*. Proceedings of International Symposium September 19-23, 2005, Georg-August-University of Goettingen, Germany, pp. 63-64.

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2005) An agent-based simulation model for land-use and cover change in Central Vietnam. In: Kok, K. (ed.). *Integrated Assessment of the Land System: The Future of Land Use*. The Proceedings of International Workshop. October 28-30, 2004, Institute for Environmental Studies, Amsterdam, the Netherlands, pp. 52-53.

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2005) A Spatio-temporally explicit multi-agent simulation model for land-use and land cover change in Central Vietnam. In: Frede, H-G., and Bach, (Eds.): *Multifunctionality of Landscapes: Analysis, Evaluation, and Decision Support*. Proceedings of International Conference, May 18-19, Justus – Liebig – University, Giessen, Germany, p. 146.

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. In: Deutscher Tropentag 2004. *International Research on Food Security, Natural Resource Management and Rural Development*. Book of Abstracts, p. 155.

Theses and Dissertation:

Le, Q.B. (2005) Multi-agent System for Simulation of Land-use and Land-cover Change: A Theoretical Framework and Its First Implementation for an Upland Watershed in the Central Coast of Vietnam. Doctoral Dissertation submitted to the Faculty of Mathematics and Natural Sciences, University of Bonn, 290 pp.

Le, Q.B. (1998). Plants as Potential Indicators for Soil Contamination by Heavy Metals in Kup Kap Valley, Mae Taeng District, Chiang Mai Province, Thailand. M.Sc. thesis submitted to the Faculty of Science, Chiang Mai University, 122 pp.

Le, Q.B. (1993). Testing Acacia Species and Provenances for Reforestation of Bare Lands and Denuded Hills in Dong Ha, Quang Tri Province. B.Sc. thesis submitted to the Faculty of Forestry, Hue University of Agriculture and Forestry [in Vietnamese].

Working papers:

Le, Q.B. (2001) Forest Management in Hong Ha Commune and Practical Lessons Learned. In: Le, Van An (ed.). *Community-Based Natural Resource Management on Uplands in Hong Ha Commune, A Luoi District, Vietnam*. Final Report for the Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.

Le, Q.B. (2000) Environmental Risks in Community Development in a Mountainous Commune and Some Implications for Risk Management. Paper presented at the Advanced International Training Programme on *Risk Management in Community Development Planning*, Gothenburg, Sweden, September 2000.

Le, Q.B. (2000) Land and Tree Tenure System in Hong Ha Commune, Thua Thien - Hue Province, Central Vietnam. In: Le, Van An (ed.). *Community-Based Natural Resource Management on Uplands in Hong Ha Commune, A-Luoi District, Vietnam*. Second Interim Report of Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.

Le, Q.B. (1999) Forest Management in Hong Ha Commune: Existing Situation, Dynamics and Paths Towards to Sustainability. In Le, Van An (ed.): *Community-Based Natural Resource Management on Uplands*. First Interim Report of Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.

Oral Presentations in International Conferences:

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2007). A multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system in forest margins: conceptual framework and theoretical application. Oral presentation at International Conference “*Framing Land Use Dynamics II*”, April 18 – 20, 2007 Utrecht University, The Netherlands.

Le, Q.B., Zitzmann, K., Schindler, J., Laube, W., Tamene, L., and Vlek, P.L.G. (2007). Development and Application of Land-use Dynamics Simulator (LUDAS) to Small Catchments in Volta Basin. Oral presentation at GLOWA-Volta Strategy and Planning Meeting, January 22-23, 2007, Center for Development Research (ZEF), University of Bonn, Germany.

Le, Q.B., and Tamene, L. (2006). A multi-agent based approach to support land/water management planning in small catchments in the Volta Basin. Oral presentation at the International Conference “*Integrated River Basin Management in Contrasting Climate Zones*”, December 14-15, 2006, University of Hohenheim, Germany.

Le, Q.B. (2006). A Multi-Agent Simulation of Land-use/cover Change: A case study in Vietnam and its adaptation to micro-catchments in Volta River basin. Oral presentation at ZEF's International Advisory Board Meeting, October 10 2006, Bonn, Germany.

Le, Q.B., Vlek, P.L.G, and Park, S.J. (2005) A multi-agent simulation model of land-use and land-cover change for an upland watershed in the Central Coast of Vietnam. Oral presentation at the International Symposium “*The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints of Land Use and Conservation*”, September 19-23, 2005, University of Goettingen, Germany.

Poster Presentations in International Conferences:

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2006) Integrated coupled human-landscape modeling: a spatial multi-agent simulation model of land-use/cover change for an upland watershed in the Central Coast of Vietnam. Poster presented at the Global Change Open Science Conference, Beijing, China, November 9 - 12 2006 - Organized by Earth System Science Partnership (ESSP).

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. Poster presented at International Workshop “*Integrated Assessment of the Land System: The Future of Land Use*”, October 28-30, 2004, Institute for Environmental Studies, Amsterdam, The Netherlands.

Le, Q.B., Park, S.J., and Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. Poster presentation at Deutscher Tropentag 2004 “*International Research on Food Security, Natural Resource Management and Rural Development*”, October 5 - 7 2004, Humboldt University, Berlin, Germany.