

REFERENCES

- Baja, S., M. C. David, and D. Dragovich. 2002. A Conceptual Model for Defining and Assessing Land Management Units Using a Fuzzy Modeling Approach in GIS Environment. *Environmental Management* 29: 647–661.
- Beck, K. J. 1978. *Land Evaluation for Agricultural Development*. ILRI Publication 23. ILRI, Wageningen.
- Bonham-Carter, G.F., 1994. *Geographic Information Systems for Geoscientists: Modeling with GIS*. Pergamon Press, New York.
- Bouma, J., Booltink, H. W. G, Finke, P. A, and Stein. A. 1996. Reliability of Soil Data and Risk Assessment of Data Applications. In: W. D. Nettleton (Editor). *Data Reliability and Risk Assessment: Applicability to Soil Interpretations*. Soil Science Society of America Special Publication, American Society of Agronomy, Madison, WI, in press.
- Brail, R.K., Klosterman, R.E., 2001. *Planning Support Systems*. ESRI Press, Redlands, CA.
- Burrough, P. A. 1989. Fuzzy Mathematical Methods for Soil Survey and Land Evaluation. *Journal of Soil Science* 40: 477-492.
- Chang, K. T. 2002. *Introduction to Geographic Information Systems*. Mc Graw Hill. New York, USA.
- Church, R.L., 2002. Geographical Information Systems and Location Science. *Computers and Operations Research* 29 (6): 541–562.

- Collins, M.G., Steiner, F.R., Rushman, M.J., 2001. Land Use Suitability Analysis in the United States: Historical Development and Promising Technological Achievements. *Environmental Management* 28 (5): 611–621.
- Dent, F. J., and A. Young. 1981. *Soil Survey and Land Evaluation*. George Allen and Unwin Publisher, London.
- DLWC-Department of Land and Water Conservation, NSW.1997. *Soil and Landscape Issues in Environmental Impact Assessment*. Technical Report No 34. DLWC: Sydney.
- Duc, H. Q. 1999. Land Evaluation of Doan Hung District, Phu Tho Province. *Annual Report*. National Institute of Soil and Fertilizer. Vietnam.
- FAO (Food and Agriculture Organization of The United Nations). 1976. *A Framework for Land Evaluation*. Soils Bulletin No 32. FAO, Rome, Italy.
- FAO (Food and Agriculture Organization of The United Nations). 1983. *Guidelines: Land Evaluation for Rainfed Agriculture*. Soils Bulletin No 52. FAO, Rome. Italy
- FAO (Food and Agriculture Organization of The United Nations). 1984. *Land Evaluation for Forestry*. FAO Forestry Paper 48. Rome, Italy.
- FAO (Food and Agriculture Organization of The United Nations). 1985. *Guidelines: Land Evaluation for Irrigated Agriculture*. Soils Bulletin No 55. FAO, Rome, Italy.
- FAO (Food and Agriculture Organization of The United Nations). 1991. *Guidelines: land evaluation for extensive grazing*. Soils Bulletin 58. FAO, Rome, Italy.
- FAO (Food and Agriculture Organization of The United Nations). 1993. *Guidelines for Land Use Planning*. Development Series 1. FAO, Rome, Italy.

- Harker, P. T, and L. G. Vargas. 1987. The Theory of Ratio Scale Estimation: Saaty's Analytic Hierarchy Process. *Management Science* 33: 1383-1403.
- Harvey, F., Chrisman, N., 1998. Boundary Objects and the Social Construction of GIS Technology. *Environment and Planning* 30 (9): 1683–1694.
- Hudson, N. 1986. *Soil Conservation*. BT Batsford Ltd. London.
- Innes, J.E., 1995. Planning Theory's Emerging Paradigm: Communicative Action and Interactive Practice. *Journal of Planning Education and Research* 14 (3): 183–189.
- Institute of Planning and Designing Agriculture of Vietnam. 1994. *Land Evaluation for Nine Agro-Ecological Zones Project*. Hanoi: Agricultural Publishing House, Vietnam.
- Janssen, R., Rietveld, P., 1990. Multicriteria Analysis and Geographical Information Systems: an Application to Agricultural Land Use in the Netherlands. In: Scholten, H.J., Stillwell, J.C.H. (Eds.). *Geographical Information Systems for Urban and Regional Planning*. Kluwer Academic Publishers, Dordrecht: 129–139.
- Kalogirou, S., 2002. Expert systems and GIS: An Application of Land Suitability Evaluation. *Computers, Environment and Urban Systems* 26 (2–3): 89–112.
- Kauffman, A., and A. A. Gupta. 1985. *Introduction to Fuzzy Arithmetic: Theory and Applications*. Van Nostrand Reinhold, New York.
- Keeney, R. L., and H. Raiffa 1976. *Decision with Multiple Objective: Preferences and Value Tradeoffs*. Wiley. New York

- Klosterman, R.E., 2001. Planning Support Systems: a New Perspective on Computer-Aided Planning. In: Brail, R.K., Klosterman, R.E. (Eds.). *Planning Support Systems*. ESRI Press, Redlands, CA: 1-35.
- Lal, R. 1985. Soil Erosion and Crop Productivity Relationship for a Tropical Soil. In: El-Swaify, S. A., Moldenhauer, W. C., and Lo, A. (Eds.). *Soil Erosion and Conservation*. Soil Conservation Society of America. Ankeny. Iowa: 237-257.
- Malczewski, J. 1999. *GIS and Multicriteria Decision Analysis*. John Wiley and Sons, Inc. New York, USA.
- Malczewski, J. 2004. GIS-based Land-use Suitability Analysis-a Critical Overview. *Progress in Planning* 62: 3-65
- Mc Coy, J. 2004. *Geoprocessing in ArcGIS*. 380 New York Street, Redlands, California, USA.
- McHarg, I.L., 1969. *Design with Nature*. Wiley, New York.
- McRae, S.G. and Burnham, C.P., 1981. *Land Evaluation. Monographs on Soil Survey*. Clarendon Press, Oxford.
- Miller, W., Collins, W.M.G., Steiner, F.R., Cook, E., 1998. An Approach for Greenway Suitability Analysis. *Landscape and Urban Planning* 42 (2-4): 91-105.
- Mongkolsawat, C., P. Thirangoon, S. Sriwongsa. 1994. Soil Erosion Mapping with Universal Soil Loss equation and GIS. Computer Centre, Khon Kaen University, Khon Kaen 4002, Thailand.
- Moore, I. D., and G. J. Burch. 1986. Sediment Transport Capacity of Sheet and Rill Flow: Application of Unit Stream Power Theory. *Water Resources Research* 22: 1350-1360.

- Moreno, D., Seigel, M., 1988. *A GIS approach for Corridor Siting and Environmental Impact Analysis*. GIS/LIS'88. Proceedings from the third annual international conference, San Antonio, Texas 2, 507–514.
- Nam Dong Statistical Department. 2006. *Statistical Year Book of Nam Dong District*. Nam Dong district, Thua Thien Hue Province. Vietnam.
- Narasimhan, F. 1983. An Analytical Approach to Supplier Selection. *Journal of Purchasing and Materials Management* 19: 27-32.
- Nguyen, V. N. 2000. *Land evaluation in Bac Lieu Province*. Institution of Planning and Designing Agriculture of Vietnam. Ho Chi Minh, Vietnam.
- Nisar Ahamed, T. R., K. Gopal Rao, J. S. R. Murthy. 2000. GIS-based Fuzzy Membership Model for Crop-Land Suitability Analysis. *Agricultural systems* 63: 75-95.
- O'Sullivan, D., Unwin, D.J. 2003. *Geographic Information Analysis*. Wiley, Hoboken, NJ.
- Olson, G.W., 1974. Land classifications. *Agricultural Systems* 4: 1-34.
- People Committee of Nam Dong. 2005. Report of Social-Economic of Nam Dong, Thua Thien Hue, Vietnam.
- Phan, L. 1992. *Soil in Eastern Region of the South of Vietnam*. Planning committee of Dongnai Province. Agricultural Publish House.
- Pitz, G. F., and J. McKillip. 1984. *Decision Analysis for Program Evaluations*. Sage Publication, Thousand Oaks, CA.

- Renard, K. G., G. R. Foster, G. A. Weesies, D. K. McCool, and D. C Yoder. 1997. *Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE)*. USDA Agriculture Handbook No 703: Washington D.C, USA.
- Rossiter, D. G. 1994. ALES: A Framework for Land Evaluating Using Microcomputer. *Soil Use and Management* 6: 7-20.
- Rossiter, D. G. 1996. A Theoretical Framework for Land Evaluation. *Geoderma* 72: 165-190.
- Saaty, T. L. 1980. *The Analytic Hierarchy Process*. McGraw-Hill. New York, USA.
- Schoemaker, P. J, and C. C. Waid. 1982. An Experimental Comparison of Different Approaches to Determining Weights in Additive Utility Models. *Management Science* 28: 182-196.
- Siderius, W. (Editor). 1986. *Land Evaluation for Land-use Planning and Conservation in Sloping Areas*. ILRI Publication 40. International Institute for Land Reclamation and Improvement (ILRI), Wageningen.
- Stewart, G.A. 1968. *Land evaluation*. Papers of a CSIRO Symposium, organized in cooperation with UNESCO, Canberra. Macmillan Company of Australia, South Melbourne: 1-10.
- Store, R., Kangas, J., 2001. Integrating Spatial Multi-criteria Evaluation and Expert Knowledge for GIS-based Habitat Suitability Modelling. *Landscape and Urban Planning* 55 (2): 79-93.
- Sys, C., E. van Ranst, and J. Debaveye. 1991. *Land Evaluation - part III - Crop Requirements*. Agricultural publication - No 7. Brussels. Belgium.

USDA-SCS (Soil Conservation Service). 1973. *Advisory Notice*. Soils-6, U.S Department of Agriculture: Washington DC.

Verheye, W. H. 1997. Land Use Planning and National Soil Policies. *Agricultural Systems* 53: 161-174.

Vietnamese General Statistic Office. 2005. *Agricultural Statistic Book*. Hanoi: Statistical Publishing House, Vietnam.

Vu, C. T., P. Q. Khanh, N. V. Khiem, and N. X. Nhiem. 1996. *Applying FAO/UNESCO Soil Classification in Typical Tropical Region*. Hanoi: Agricultural Publishing House. Vietnam.

Wang, F. 1990. Fuzzy Supervised Classification of Remote Sensing Maps. *Remote Sensing* 28 (2): 194-201.

Wischmeier, W. H., and D. D. Smith. 1978. *Predicting Rainfall Erosion Losses: A Guide to Conservation Planning*. Agriculture Handbook No 537. U.S. Dept. of Agriculture: Washington DC, USA.

Xiem, N. T., and N. T. Phien. 1999. *Upland of Vietnam - Degradation Rehabilitation*. Hanoi: Agricultural Publishing House. Vietnam

Zeiler, M. 1999. *Modeling Our World*. Environmental Systems Research Institute, Inc. California. USA

Zadeh, L.H., 1965. Fuzzy sets. *Information and Control* 8: 338-353.

Zimmermann, H. J. 1985. *Fuzzy Set Theory and its Application*. Martinous Nijhoff, Boston, MA.