5. References

Anderson, J.R., Hardy, E.E., Roach, J.T., Witmer, R.E., 1976. A land use and land cover classification system for use with remote sensor data. U.S. Geological Survey Professional Paper 964, 1–41.

Bandyopadhyay, S., 2005. Satellite image classification using genetically guided fuzzy clustering with spatial information. International Journal of Remote Sensing 26 (3), 579–593.

Basak, U.C., Das, A.B., Das, P., 1996. Chlorophyll, carotenoids, proteins and secondary metabolites in leaves of 14 species of mangroves. Bulletin of Marine Science 58 (3), 645–659.

Bellman, R.E., 1961. Adaptive Control Processes. Princeton University Press, Princeton.

Chalermwat, P., El-Ghazawi, T., LeMoigne, J., 2001. 2-phase GAbased image registration on parallel clusters. Future Generations Computer Systems 17 (4), 467–476.

Chen, L., 2003. A study of applying genetic programming to reservoir trophic state evaluation using remote sensor data. International Journal of Remote Sensing 24 (11), 2265–2275.

Cogdill, R.P., Hurburgh Jr., C.R., Rippke, G.R., 2004. Single-kernel maize analysis by near-infrared hyperspectral imaging. Transactions of the American Society of Agricultural Engineers 47 (1), 311–320.

Curran, P.J., 1989. Remote sensing of foliar chemistry. Remote Sensing of Environment 30 (3), 271–278.

Das, A.B., Parida, A., Basak, U.C., Das, P., 2002. Studies on pigments, proteins and photosynthetic rates in some mangroves and mangrove associates from Bhitarkanika, Orissa. Marine Biology 141 (3), 415–422.

Elvidge, C.D., 1987. Reflectance characteristics of dry plant materials. Proc. the 21st International Symposium on Remote Sensing of Environment, Ann Arbor, pp. 721–733.

Elvidge, C.D., 1990. Visible and near infrared reflectance characteristics of dry plant materials. International Journal of Remote Sensing 11 (10), 1775–1795.

Fang, H., Liang, S., Kuusk, A., 2003. Retrieving leaf area index using a genetic algorithm with a canopy radiative transfer model. Remote Sensing of Environment 85 (3), 257–270.

Fukunaga, K., 1990. Introduction to Statistical Pattern Recognition. Academic Press, Orlando.

Goldberg, D., 1989. Genetic Algorithms in Search, Optimization and Machine Learning. Addison-Wesley, Reading.

Harvey, N.R., Theiler, J., Brumby, S.P., Perkins, S., Szymanski, J.J., Bloch, J.J., Porter, R.B., Galassi, M., Young, A.C., 2002. Comparison of GENIE and conventional supervised classifiers for multispectral image feature extraction. IEEE Transactions on Geoscience and Remote Sensing 40 (2), 393–404.

Himmelsbach, D.S., Boer, J.D., Akin, D.E., Barton, E.E., 1988. Solidstate carbon-13 NMR, FTIR, and NIR spectroscopic studies of ruminant silage digestion. In: Creaser, C.S., Davies, A.M.C. (Eds.), Analytical Applications of Spectroscopy. Royal Society of Chemistry, London, pp. 410–413.

Holland, J.H., 1975. Adaptation in Natural and Artificial Systems. University of Michigan, Ann Arbor.

Hughes, G.F., 1968. On the mean accuracy of statistical pattern recognizers. IEEE Transactions on Information Theory 14 (1), 55–63.

Jin, Y.Q., Wang, Y.A., 2001. Genetic algorithm to simultaneouslyretrieve land surface roughness and soil wetness. International Journal of Remote Sensing 22 (16), 3093–3099.

Jones, G.A., Greenhill, D., Orwell, J., Forte, P., 2000. Coastline registration: efficient optimization in large dimensions using genetic algorithms. Geographical and EnvironmentalModelling 4 (1), 21–41.

Kavzoglu, T., Mather, P.M., 2002. The role of feature selection in artificial neural network applications. International Journal of Remote Sensing 23 (15), 2919–2937.

Kendall, M.G., 1961. A Course in the Geometry of n Dimensions. Dover Publications, Inc., New York.

Keshava, N., 2004. Distance matrices and band selection in hyperspectral processing with applications to material identification and spectral libraries. IEEE Transactions on Geoscience and Remote Sensing 42 (7), 1552–1565.

Kooistra, L., Wanders, J., Epema, G.F., Leuven, R.S.E.W., Wehrens, R., Buydens, L.M.C., 2003. The potential of field spectroscopy for the assessment of sediment properties in river floodplains. Analytica Chimica Acta 484 (2), 189–200.

Kruse, F.A., Lefkoff, A.B., Boardman, J.W., Heidebrecht, K.B., Shapiro, A.T., Barloon, P.J., Goetz, A.F.H., 1993. The spectra image processing system (SIPS)-interactive visualization and analysis of imaging spectrometer data. Remote Sensing of Environment 44 (2–3), 145–163.

Kumar, L., Schmidt, K.S., Dury, S., Skidmore, A.K., 2001. Review of hyperspectral remote sensing and vegetation science. In: van der Meer, F.D., de Jong, S.M. (Eds.), Imaging Spectrometry: Basic Principles and Prospective Applications. Kluwer Academic Press, Dordrecht, pp. 111–155.

Liu, Z., Liu, A., Wang, C., Niu, Z., 2004. Evolving neural network using real coded genetic algorithm (GA) for multispectral image classification. Future Generations Computer Systems 20 (7), 1119–1129.

Lofy, B., Sklansky, J., 2001. Segmenting multisensor aerial images in class-scale space. Pattern Recognition 34 (9), 1825–1839.

Lu, F., Eriksson, L.O., 2000. Formation of harvest units with genetic algorithms. Forest Ecology and Management 130 (1–3), 57–67.

Luo, J.C., Zheng, J., Leung, Y., Zhou, C.H., 2003. A knowledgeintegrated stepwise optimization model for feature mining in remotely sensed images. International Journal of Remote Sensing 24 (23), 4661–4680.

Menon, G.G., Neelakantan, B., 1992. Chlorophyll and light attenuation from the leaves of mangrove species of Kali estuary. Indian Journal of Marine Sciences 21 (1), 13–16.

Mertens, K.C., Verbeke, L.P.C., Ducheyne, E.I., De Wulf, R.R., 2003. Using genetic algorithms in sub-pixel mapping. International Journal of Remote Sensing 24 (10), 4241–4247.

Mutanga, O., Skidmore, A.K., Van Wieren, S., 2003. Discriminating tropical grass (Cenchrus ciliaris) canopies grown under different nitrogen treatments using spectroradiometry. ISPRS Journal of Photogrammetry and Remote Sensing 57 (4), 263–272.

\Pal, S.K., Bandyopadhyay, S., Murthy, C.A., 2001. Genetic classifiers for remotely sensed images: comparison with standard methods.International Journal of Remote Sensing 22 (13), 2545–2569.

Ramsey, E.W., Jensen, J.R., 1996. Remote sensing of mangrove wetlands: relating canopy spectra to site-specific data. Photogrammetric Engineering and Remote Sensing 62 (8), 939–948.

Richards, J.A., 1993. Remote Sensing Digital Image Analysis: An Introduction. Springer-Verlag, Berlin.

Shahshahani, B.M., Landgrebe, D.A., 1994. The effect of unlabeled samples in reducing the small sample size problem and mitigating the Hughes phenomenon. IEEE Transactions on Geoscience and Remote Sensing 32 (5), 1087–1095.

Siedlecki, W., Sklansky, J., 1989. A note on genetic algorithms for large-scale feature selection. Pattern Recognition Letters 10 (5), 335–347.

Teeratanatorn, W., 2000. Mangroves of Pak Phanang Bay (in Thai). Royal Forest Department, Bangkok.

Tomlinson, P.B., 1994. The Botany of Mangroves. Cambridge University Press, Cambridge.

Tsai, F., Philpot, W., 1998. Derivative analysis of hyperspectral data. Remote Sensing of Environment 66 (1), 41–51.

Tseng, D.C., Lai, C.C., 1999. A genetic algorithm for MRF-based segmentation of multi-spectral textured images. Pattern Recognition Letters 20 (14), 1499–1510.

Ulfarsson, M.O., Benediktsson, J.A., Sveinsson, J.R., 2003. Data fusion and feature extraction in the wavelet domain. International Journal of Remote Sensing 24 (20), 3933–3945.

Vaiphasa, C., 2003. Innovative genetic algorithm for hyperspectral image classification. Proc. MAP ASIA 2003 Conference, Kuala Lumpur, 13–15 October 2003, p. 45.

Vaiphasa, C., 2006. Consideration of smoothing techniques for hyperspectral remote sensing. ISPRS Journal of Photogrammetry and Remote Sensing 60 (2), 91–99.

Vaiphasa, C., Ongsomwang, S., Vaiphasa, T., Skidmore, A.K., 2005. Tropical mangrove species discrimination using hyperspectral data: a laboratory study. Estuarine, Coastal and Shelf Science 65 (1–2), 371–379.

Williams, P., Norris, K., 2001. Near-Infrared Technology in the Agricultural and Food Industries. American Association of Cereal Chemists, St. Paul, Minnesota.

Yu, S., De Backer, S., Scheunders, P., 2002. Genetic feature selection combined with composite fuzzy nearest neighbor classifiers forhyperspectral satellite imagery. Pattern Recognition Letters 23 (1–3), 183–190.

Appendix: Published Work

A hyperspectral band selector for plant species discrimination