

REFERENCES

- Aalders, I.H. 2008. Modeling land-use decision behavior with Bayesian belief network. *Ecology and Society* 13:16.
- Ainong, L., L. Shumlin,, W. Angsheng, and Q. Jun. 2007. Estimating Crop Yield from Multi-temporal Satellite Data Using Multivariate Regression and Neural Network Techniques. *Photogrammetric Engineering & Remote Sensing* 73: 1149-1157.
- Aitkenhead, M.J. and I.H. Aalders. 2009. Predicting land cover using GIS, Bayesian and evolutionary algorithm methods. *Journal of Environmental Management* 90:236-250.
- Batchelor, C. and J. Cain. 1999. Application of belief networks to water management studies. *Agricultural Water Management* 40:51-57.
- Boonprasom P. and G. Bumroongitt. 2005. Prediction of Tangerine Yield Using Artificial Neural Network (ANN). *Chiang Mai University Journal* 4: 39-48.
- Bouissou, M., F. Martin and A. Ourghanlian. 1999. Assessment of a Safty-Critical System Including Software: A Bayesian Belief Network for Evidence Sources. 1999 proceedings Annual reliability and maintainability Symposium. P 142 -150.
- Bromley J., N.A. Jackson, O.J. Clymer, A.M. Giacomello and F.V. Jensen. 2005. The use of Hugin to develop Bayesian networks as an aid to integrated water resource planning. *Environmental Modelling & Software* 20: 231-242.
- Buddhaboon, C. 2011. Assessment of farmers' criteria on management practice for flooded rice production system in deepwater rice area. Ph.D. Dissertation, (Agricultural Systems). Chiang Mai University.
- Bulanon, D.M., T.F.Burks and V. Alchanatis. 2009. Image fusion of visible and thermal images for fruit detection. *Biosystems Engineering* 103: 12-22.

- Cain, J. 2001. Planning improvements in natural resources management : Guidelines for using Bayesian networks to support the planning and management of development programmes in the water sector and beyond. Centre for Ecology and Hydrology Crowmarsh Gifford, Wallingford, Oxon, OX10 8BB, UK.
- Cain, J., K. Jinapala, I.W. Makin, P.G. Somaratna, B.R. Ariyaratna and L.R. Perera. 2003. Participatory decision support for agricultural management. A case study from Sri Lanka. *Agricultural Systems* 76: 457-482.
- Cheng, H.D., X.H. Jiang, Y. Sun and J. Wang. 2001. Color image segmentation: advances and prospects. *Pattern Recognition* 34: 2259-2281.
- Chiang Mai Provincial Agricultural Office: DOAE. 2008. Crops in Chiang Mai in year 2008. (Online) Source: http://chiangmai.doae.go.th/reports/stat_plan/stat_plantproduction51-52.pdf (3 january 2010)
- Correa, M., C. Bielza and J. Pamies-Teixeira. 2009. Comparison of Bayesian networks and artificial neural networks for quality detection in a machining process. *Expert Systems with Applications* 36: 7270-7279.
- Dadhwal, V.K. and V.N. Sridhar. 1997. A non-linear regression form for vegetation index-crop yield relation incorporating acquisition date normalization. *International Journal of Remote Sensing* 18: 1403 — 1408.
- David, J. Spiegelhalter, A. Philip Dawid, Steffen L. Lauritzen, Robert G. Cowell Source: *Statistical Science*, Vol. 8, No. 3 (Aug., 1993), pp. 219-247
- Department of Agriculture. 2002. Good Agriculture Practice for longan. 46p.
- Farmani, R., H.J. Henriksen and D. Savic. 2009. An evolutionary Bayesian belief network methodology for optimum management of ground water contamination. *Environmental Modelling & Software* 24:303-310.
- Feng, G., C. Qixin and N. Masateru. 2008. Fruit Detachment and Classification Method for Strawberry harvesting Robot. *International Journal of Advanced Robotic Systems* 5:41-48.

- Green, T.R., J.D. Salas, A. Martinez and R.H. Erskine. 2007. Relating crop yield to topographic attributes using Spatial Analysis Neural Networks and regression. *Geoderma* 139: 23-37.
- Gu, Y. 1994. An Application of Belief Networks to Future Crop Production. *IEEE*.
- Gu, Y., J.W. Crawford, D.R. Peiris, C. Grashoff, J.W. McNicol and B. Marshall. 1996. Modelling faba bean production in an uncertain future climate. *Agricultural and Forest Meteorology* 79: 289-300.
- Guo, F.,Q. Cao and N. Masateru. 2008. Fruit Detachment and Classification Method for Strawberry Harvesting. *Robot International Journal of Advanced Robotic Systems*, Vol. 5, No. 1 (2008) ISSN 1729-8806, pp. 41-48
- Henriksen, H.J, P. Rasmussen, G. Brandt, D. von Blow and F.V. Jensen. 2007. Public participation modelling using Bayesian networks in management of groundwater contamination. *Environmental Modelling & Software* 22:1101-1113.
- Hester, S.M. and O. Cacho. 2003. Modelling apple orchard systems. *Agricultural Systems* 77:137-154.
- Jaikla, R., S. Auephanwiriyaikul and A. Jintrawet. 2008. Rice Yield Prediction using a Support Vector Regression method. *Proceedings of IEEE ECTI-CON 2008 Krabi Thailand*: 29-32.
- Kaul, M., R.L. Hill and C. Walthall. 2005. Artificial neural networks for corn and soybean yield prediction. *Agricultural Systems* 85: 1-18.
- Knox, J.W., J.A. Rodriguez Daz, D.J. Nixon and M. Mkhwanazi. 2010. A preliminary assessment of climate change impacts on sugarcane in Swaziland. *Agricultural Systems* 103: 63-72.
- Land Development Department. 2004. The used of Remote Sensing and GIS for Longan production survey and forecast yield in year 2003/04 [Online] Available: http://www.ddd.go.th/web_prb/Databook.asp?offset=1300 [2011, Jan]
- Ma, L., T. Arentze, A. Borgers and H. Timmermans. 2007. Modelling land-use decisions under conditions of uncertainty. *Computers, Environment and Urban Systems* 31:461-476.

- Manochai, P., Yuthana K., Chiti S. and Santi C., 2004. Technology for Longan production. Physic Center Inc. Bangkok, Thailand. (in Thai)
- Martnez-Rodrguez, A.M., J.H. May and L.G. Vargas. 2008. An optimization-based approach for the design of Bayesian networks. *Mathematical and Computer Modelling* 48: 1265-1278.
- Menzel, C. and G. Waite. 2005. Litchi and longan : botany, production, and uses. CABI publishing, Wallingford UK. 324p.
- Merdun, H., C. Ozer, R. Meral and M. Apan. 2006. Comparison of artificial neural network and regression pedotransfer functions for prediction of soil water retention and saturated hydraulic conductivity. *Soil and Tillage Research* 90 : 108-116.
- Newton, A.C., E. Marshall, K. Schreckenber, D. Golicher, D.W. te Velde, F. Edouard and E. Arancibia. 2006. Use of Bayesian Belief Network to predict the impacts of commercializing non-timber forest products on livelihoods. *Ecology and Society* 11:24-57.
- Norsys Software Corp. 2011. Netica Tutorial [Online]. Available: www.norsys.com/tutorials/netica/nt_toc_A.htm [2011, jan]
- Office of Agricultural Economics: OAE. 2009. The major agricultural crops. (Online) Source: <http://www2.oae.go.th/Prcai/area.php> (3 january 2010)
- Okamoto, H. and W.S. Lee. 2009. Green citrus detection using hyperspectral imaging. *Computers and Electronics in Agriculture* 66: 201-208.
- Ohta, Y., Kanade T. and Sakai T. 1980. Color Information for Region Segmentation. *Computer Graphics and Image Processing* 13:222 - 241.
- Pan, G., Li F. and Sun G.-j. 2007. Digital camera based measurement of crop cover for wheat yield prediction. *IEEE*.98 - 107
- Park, S.J., C.S. Hwang and P.L.G. Vlek. 2005. Comparison of adaptive techniques to predict crop yield response under varying soil and land management conditions. *Agricultural Systems* 85: 59-81.

- Prasad, A.K., L. Chai, R.P Singh and M. Kafatos. 2006. Crop yield estimation model for Iowa using remote sensing and surface parameters. *International Journal of Applied Earth Observation and Geoinformation* 8: 26-33.
- Schaap, M.G. and F.J. Leij. 1998. Using neural networks to predict soil water retention and soil hydraulic conductivity. *Soil and Tillage Research* 47: 37-42.
- Smitha, C., I. Russella and C. King. 2009. Rats and Rice: Belief Network Models of Rodent Control in the Rice Fields of Cambodia.
- Stajnko, D., M. Lakota and M. Hocevar. 2004. Estimation of number and diameter of apple fruits in an orchard during the growing season by thermal imaging. *Computers and Electronics in Agriculture* 42: 31-42.
- Tao, F., M. Yokozawa, Z. Zhang, Y. Xu and Y. Hayashi. 2005. Remote sensing of crop production in China by production efficiency models: models comparisons, estimates and uncertainties. *Ecological Modelling* 183: 385-396.
- Tari, F. 1996. A Bayesian Network for predicting yield response of winter wheat to fungicide programmes. *Computers and Electronics in Agriculture* 15: 111-121.
- Timsina, J. and E. Humphreys. 2006. Performance of CERES-Rice and CERES-Wheat models in rice-wheat systems: A review. *Agricultural Systems* 90: 5-31.
- Tinsina, J., and E. Humphreys. 2006. Application of CERES-Rice and CERES-Wheat in research policy and climate change studies in Asia: A review. *International Journal of Agricultural Research*. 1, 2020-225.
- Chiangchen, U. 2005. The decision support system for agricultural products over the Internet. Independent research. Science. Chiang Mai University.
- Varis, O. 1997. Bayesian decision analysis for environmental and resource management. *Environmental Modelling & Software* 12:177-185.
- Yang, L., J. Dickinson, Q. M. J. Wu and S. Lang. 2007. A Fruit Recognition Method for Automatic Harvesting. *IEEE*. 152-157.
- Yun, J.I. 2003. Predicting regional rice production in South Korea using spatial data and crop-growth modeling. *Agricultural Systems* 77: 23-38.