## REFERENCES

- 1. Aked, J., 'Maintaining the post-harvest quality of fruits and vegetables', Fruit and Vegetable Processing: Improving Quality, World Head Publishing Limited, Cambridge, 2002.
- 2. Allais, I. and Létang, G. 'Influence of mist-chilling on post-harvest quality of fresh strawberries Cv. Mara des Bois and Gariguette', International Journal of Refrigeration, Vol. 32, No. 6, pp. 1495-1504, 2006.
- 3. Aranda-Sanchez, J., Baltazar, A. and González-Aguilar, G. 'Implementation of a Bayesian classifier using repeated measurements for discrimination of tomato fruit ripening stages', Biosystems Engineering, Vol. 102, No. 3, pp. 274-284, 2009.
- 4. Arnolda, J. and Minnerb, S. 'Financial and operational instruments for commodity procurement in quantity competition', Intl. J. Production Economics, Vol. 131, No. 1, pp. 96-106, Issue 1, 2011.
- 5. Ashayeri, J. and Lemmes, L. 'Economic value added of supply chain demand planning: A system dynamics simulation', Robotics and Computer-Integrated Manufacturing, Vol. 22, pp. 550-556, 2006.
- 6. Blackhurst, J., Wu, T. and O'Grady, P. 'Network-based approach to modelling uncertainty in a supply chain', International Journal of Production Research, Vol. 42, No. 8, pp. 1639-1658, 2004.
- 7. Blackhurst, J.T., Wu, and O'grady, P. 'Methodology for supply chain disruption analysis', International Journal of Production Research, Vol. 45, No. 7, pp. 1665-1682, 2007.
- 8. Boehlje, M. 'Structural changes in the agricultural industries: How do we measure, analyze and understand them?', American Journal of Agricultural Economics, Vol. 81, No. 5, pp. 108-1041, 1999.
- 9. Bogaraj, M., Bogataj, L. and Vodopivec, R. 'Stability of perishanble goods in cold logistic chains', Int. J. Production Economics, Vol. 93-94, pp. 345-356, 2005.

- 10. Buck, A.J., Hendrix, E.M.T., Schoorlemmer, H.B. 'Analysing production and environmental risks in arable farming systems: A mathematical approach', European Journal of Operational Research, Vol. 119, pp. 416-426, 1999.
- 11. Carlos, A., Silva, D. and Baker, D., 'Introduction', Agro-Industries for Development, The Food and Agriculture Organization of the United Nations, 2009.
- 12. Carrera, D.A. and Mayorga, R.V. 'Supply chain management: a modular Fuzzy Inference System approach in supplier selection for new product development', J. Intell. Manuf., Vol. 19, pp. 1-12, 2008.
- 13. Chang, P-T., Pai, P-F., Lin, K-P. and Wu, M-S., 'Applying fuzzy arithmetic to the system dynamics for the customer–producer–employment model', International Journal of Systems Science, Vol. 37, No. 10, pp. 673-698, 2006.
- 14. Cheng, S.P. and Chang, P.C., 'A mathematical programming approach to supply chain models with fuzzy parameters', Engineering Optimization, Vol. 38, No. 6, pp. 647-669, 2006.
- 15. Christopher, M., 'Logistics and Supply Chain Management', Prentice Hall, London, 2005.
- 16. Chuu, S-J., 'Selecting the advanced manufacturing technology using fuzzy multiple attributes group decision making with multiple fuzzy information', Computers and Industrial Engineering, Vol. 57, No. 3, pp. 1033-1042, 2009.
- 17. Davidson, V.J., Ryks, J. and Fazil, A. 'Fuzzy risk assessment tool for microbial hazards in food systems', Fuzzy Sets and Systems, Vol. 157, No. 9, pp. 1201-1210, 2006.
- 18. Dupuy, C., Genoulaz, V.B. and Guinet, A. 'Batch dispersion model to optimise traceability in food industry', Journal of Food Engineering, Vol. 70, pp. 333-339, 2005.
- 19. East, A., Smale, N. and Kang, S. 'A method for quantitative risk assessment of temperature control in insulated boxes', International Journal of Refrigeration, Vol. 32, No. 6, pp. 1505-1513, 2009.

- 20. Entup, M.L., Gunther, H.O., Van der Beek, P., Grunow, M. and Seiler, T. 'Mixed-Integer Linear Programming approaches to shelf-life-integrated planning and scheduling in yoghurt production' International Journal of Production Research, Vol. 43, No. 23, pp. 5071-5100, 2005.
- 21. FAO, 'The role of post-harvest management in assuring the quality and safety of horticultural produce', The United Nations, Rome, 2004.
- 22. Foulds, L.R. and Wilson, J.M. 'Scheduling operations for the harvesting of renewable resources', Journal of Food Engineering, Vol. 70, pp. 281-292, 2005.
- 23. Galasso, F., Merce, C. and Grabot, B., 'Decision support framework for supply chain planning with flexible demand', International Journal of Production Research, Vol. 47, No. 2, pp. 455-478, 2009.
- 24. Georgiadis, P. Georgiadis, D. and Lakovou, E. 'A system dynamics modeling framework for the strategic supply chain management of food chains', Journal of Food Engineering, Vol. 70, pp. 351-364, 2005.
- 25. Gigler, J.K., Hendrix, E.M.T., Heesen, R.A., Van den Hazelkamp, V.G.W. and Meerdink, G. 'On optimisation of agri chains by dynamic programming', European Journal of Operational Research, Vol. 139, pp. 613-625, 2002.
- 26. Guo, L.S. and He, Y.S. 'Integrated Multi-criterial Decision Model: a Case Study for the Allocation of Facilities in Chinese Agriculture' Journal of Agricultural Engineering Research, Vol. 73, No. 1, pp. 86-94, 1999.
- 27. Hobbs, J.E. and Young, L.M. 'Closer vertical co-ordination in agri food supply chains: A conceptual framework and some preliminary evidence', Supply Chain Management, Vol. 5, No. 3, pp.131-142, 2000.
- 28. Hsu, C.-C., Tan, K.C., Kannan, V.R. and Leong, G.K. 'Supply chain management practices as a mediator of the relationship between operations capability and firm performance', International Journal of Production Research, Vol. 47, No. 3, pp. 835-855, 2009.

- 29. Hu, C-F., Teng, C-J. and Li, S-Y. 'A fuzzy goal programming approach to multi-objective optimization problem with priorities', European Journal of Operational Research, Vol. 176, No. 3, pp. 1319-1333, 2007.
- 30. Huang, H.Y., Chou, Y.C. and Chang, S. 'A dynamic system model for proactive control of dynamic events in full-load states of manufacturing chains', International Journal of Production Research, Vol. 47, No. 9, pp. 2485-2506, 2009.
- 31. Huang, S.W., 'Global Trade Patterns in Fruits and Vegetables', United States Department of Agriculture, Agriculture and Trade Report No.WRS-04-06, 2004.
- 32. Humphrey, J. and Oetero. A. 'Strategies for Diversification and Adding Value to Food Exports: A Value Chain Perspective', United Nations Conference on Trade and Development, 2000.
- 33. Jaffee, S., Siegel, P. and Andrews, C. 'Rapid agricultural supply chain risk assessment: Conceptual Framework and Guidelines for Application', Commodity Risk Management Group, Agriculture and Rural Development Department, World Bank, 2008.
- 34. Jaffee, S., Siegel, P. and Andrews, C. 'Rapid agricultural supply chain risk assessment: A Conceptual Framework, Agriculture and Rural Development Discussion Paper 47, The International Bank for Reconstruction and Development, World Bank, 2010.
- 35. Kacprzyk, J. and Esogbue, A. 'Fuzzy dynamic programming: Main developments an applications', Fuzzy Sets and Systems, Vol. 81, pp. 31-45, 1996.
- 36. Karnataka Horticulture Marketing Federation, 'Binny Market Banana Arrival Quarterly Report', State of Karnata, Bangalore, 2009.
- 37. Kaufmann, A. and Gupta, M.M. 'Fuzzy Mathematical Models in Engineering and Management Science', Elsevier Science, Amsterdam, The Netherlands, 1998.
- 38. Kunsch, P. and Springael, J., 'Simulation with system dynamics and fuzzy reasoning of a tax policy to reduce CO2 emissions in the residential sector', European Journal of Operational Research, Vol. 185, No. 3, pp. 1285-1299, 2008.

- 39. Kupongsak, S. and Tan, J. 'Application of fuzzy set and neural network techniques in determining food process control set points' Fuzzy Sets and Systems, Vol. 157, pp. 1169-1178, 2006.
- 40. Lee, C.H. and Wen, C.G. 'Fuzzy goal programming approaches for water quality management in a river basin', Fuzzy Sets and System, Vol. 89, No. 2, pp. 181-192, 1997.
- 41. Leung, S.C.H. and Chan, S.S.W. 'A goal programming model for aggregate production planning with resource utilization constraint', Computers and Industrial Engineering, Vol. 56, No. 3, pp.1053-1064, 2009.
- 42. Leung, S.C.H. and Ng, W.L. 'A goal programming model for production planning of perishable products with postponement' Computers and Industrial Engineering, Vol. 53, No. 3, pp. 531-541, 2007.
- 43. Ljungberg, D., Gebresenbet, G. and Aradom, S., 'Logistics Chain of Animal Transport and Abattoir Operation', Biosystems Engineering, Vol. 96, No. 2, pp. 267-277, 2007.
- 44. Maia, L.O.A., Lago, R.A., Qassim, R.Y. 'Selection of postharvest technology routes by mixed-integer linear programming', International Journal of Production Economics, Vol. 49, pp. 85-90, 1997.
- 45. Makino, Y. 'Selection of Packaging Conditions for Shredded Cabbage by Genetic Algorithms' Journal of Agricultural Engineering Research, Vol. 78, No. 3, pp. 261-271, 2001.
- 46. McLaughlin, E.W., Green, G.M., and Park, K., 'Changing Distribution Patterns in the US Fresh Produce Industry: Mid/Late-70s to Mid/ Late-90s', Department of Agricultural, Resource, and Managerial Economics, Cornell University, Ithaca, NY 14853, 1999.
- 47. Minegishi, S. and Daniel Thiel, D. 'System dynamics modeling and simulation of a particular food supply chain' Simulation Practice and Theory, Vol. 8, pp. 321-339, 2000.
- 48. Ming-Langa, T., Chiang, J.H. and Lan, L.W. 'Selection of optimal supplier in supply chain management strategy with analytic network process and choquet integral', Computers and Industrial Engineering, Vol. 57, No. 1, pp. 330-340, 2009.

- 49. Nasirzadeh, F., Afshar, A., Khanzadi, M, and Howick, S. 'Integrating system dynamics and fuzzy logic modeling for construction risk management' Construction Management and Economics, Vol. 26, No. 11, pp. 1197-1212, 2008.
- 50. National Horticulture Board 'Indian Horticulture Data Base 2008', Ministry of Agriculture, Government of India, 2009.
- 51. Olarinde, L.O., Okunola, S.O. and Anifowose, A. 'Risk and Economic Perspectives of Post Harvest Decisions: An Application of Bayesian Theory to Smallholder Farming In Oyo State, South Western Nigeria', Research Journal of Social Sciences, Vol. 2, pp. 91-97, 2007.
- 52. Omta, S.W.F., Trienekens, J.H. and Beers, G., 'Chain and Network Science: a Research Framework', Journal on Chain and Network Science, Vol. 1, No. 1, pp. 1-6, 2001.
- Pal, B.B. and Moitra, B.N. 'A goal programming procedure for solving problems with multiple fuzzy goals using dynamic programming', European Journal of Operational Research, Vol. 144, No. 3, pp. 480-491, 2003.
- 54. Rabelo, L., Eskandari, H., Shaalan, T. and Helal, M., 'Value chain analysis using hybrid simulation and AHP', Int. J. Production Economics, Vol. 105, pp. 536-547, 2007.
- 55. Rong, A., Akkerman, R., and Grunow, M.'An optimization approach for managing fresh food quality throughout the supply chain', International Journal of Production Economics, Vol. 131, No. 1, pp. 421-429, 2011.
- 56. Rosario, M.M.P., Tollner, E.W., Boyhan, G.E., Li, C. and McClendon, R.W., 'Simulating onion packinghouse product flow for performance evaluation and education', Biosystems Engineering, Vol. 102, No. 2, pp. 135-142, 2009.
- 57. Salin, V. 'Information technology in agri-food supply chains', International Food and Agribusiness Management Review, Vol. 1, No. 3, pp. 329-334, 1998.
- 58. Shaheen, A., Fayek, A. and Abou Rizk, S. 'Fuzzy numbers in cost range estimating', ASCE Journal of Construction Engineering and Management, Vol. 133, No. 4, pp. 325-334, 2007.

- 59. Tijskens, L.M.M., Koster, A.C. and Jonker, J.M.E., 'Concept of chain management and chain optimization', Food Process Modelling, Cambridge, 2001.
- 60. Tsai, W.H. and Hung, S.J.A., 'Fuzzy goal programming approach for green supply chain optimisation under activity-based costing and performance evaluation with a value-chain structure', International Journal of Production Research, Vol. 47, No. 18, pp. 4991-5017, 2009.
- 61. Van der Vost, G.A.J. and Beulens, A.J.M., 'Identifying Source of Uncertainty to Generate Supply Chain Redesign Strategies', International Journal of Distribution and Logistics Management, Vol. 32, No. 6, pp. 409-430, 2002.
- 62. Van der Vost, J.G.A.J., Tromp, S.O. and Van der Zee, D.J. 'Simulation modelling for food supply chain redesign; integrated decision making on product quality, sustainability and logistics', International Journal of Production Research, Vol. 47, No. 23, pp. 6611-6631, 2009.
- 63. Villegas, F., and Smith, N. 'Supply Chain Dynamics: Analysis of inventory vs. order oscillations trade-off', International Journal of Production Research, Vol. 44, No. 6, pp. 1037-1054, 2006.
- 64. Vo, T.L.H. and Thiel, D. 'A System Dynamics Model of the Chicken Meat Supply Chain faced with Bird Flu', Proceedings of the 26th International Conference of the System Dynamics Society, Athens, Greece, 2008.
- 65. Wang, J. and Lin, H.Y. 'A fuzzy hybrid decision-aid model for selecting partners in the design chain' International Journal of Production Research, Vol. 44, No. 15, pp. 2047-2069, 2006.
- 66. Wanga, X., Lia, D. and O'Brien, C. 'Optimisation of traceability and operations planning: an integrated model for perishable food production', International Journal of Production Research, Vol. 47, No. 11, pp. 2865-2886, 2009.
- 67. Waters, D., 'Supply Chain Risk Management: vulnerability and resilience in logistics', Kogan Page Limited, London, 2007.
- 68. Wilkingson, J. and Rocha, R. 'Agro-industry Trends, Patterns and Development Impacts', Agro-Industries for Development, The Food and Agriculture Organization of the United Nations, 2009.

- 69. Xu, Y., Burfoot, D. and Huxtable, P. 'Improving the quality of stored potatoes using computer modelling, Computers and Electronics in Agriculture, Vol. 34, No. 1-3, pp. 159-171, 2002.
- 70. Yao, M-J. and Huang, J-X., 'Solving the economic lot scheduling problem with deteriorating items using genetic algorithms', Journal of Food Engineering, Vol. 70, No. 3, pp. 309-322, 2005.
- 71. Zadeh, L.A. 'Fuzzy sets', Information and Control, Vol. 8, pp. 338-353, 1965.
- 72. Zimmermann, H.J. 'Fuzzy Set Theory and its Application: 4<sup>th</sup> edition', Kluwer Academic Publishers, London, 2001.