

COLLEGE OF SCIENCES

Animal Nutrition and Physiology

Book - Chapter In, Research

Alexander, D. L. J., Morel, P. C. H., Wood, G. (2006). Feeding strategies for maximising gross margin in pig production. (33-43). In Janos D. Pinter (Eds.). *Global Optimization*. Springer Science+Business Media LLC: Springer.

Conference Contribution - Full Paper in Published Proceedings, Research

Morel, P. C. H., Kenyon, P. R. (2006). Sensitivity analysis of weaner lamb production in New Zealand. (pp. 377-381). *Proceedings of the New Zealand Society of Animal Production*, 66, June 26-28, Napier, NZ. NZSAP. Available at: http://www.sciquest.org.nz/crusher_download.asp?article=8002876

Tilman, Z. V., Ravindran, V., Morel, P. C. H., Coles, G. D., Cundy, M. E. (2006). Nutritional value of barley cultivars for broiler chickens as influenced by beta-glucanase supplementation. (pp. 214-217). *18th Annual Australian Poultry Science Symposium*, February 20-22, Sydney, NSW. University of Sydney, Poultry Research Foundation.

Journal Article - Full Article in Journal, Research

Chaves, A. V., Brookes, I. M., Waghorn, G., Woodward, S., Burke, J. L. (2006). Evaluation of Cornell Net Carbohydrate and Protein System predictions of milk production, intake and liveweight change of grazing dairy cows fed contrast silages. *Journal of Agricultural Science*, 144 (1), 85-91 Available from: http://journals.cambridge.org/download.php?file=%2FAGS%2FAGS144_01%2FS0021859605005733a.pdf&code=e03650f4d2b0fa5ca52396b9fb4b0cce.

Chaves, A. V., Burke, J. L., Waghorn, G., Brookes, I. M. (2006). Digestion kinetics of leaf, stem and inflorescence from five species of mature grasses. *Journal of the Science of Food and Agriculture*, 86 (5), 816-825 Available from: <http://www3.interscience.wiley.com/cgi-bin/fulltext/112217709/PDFSTART>.

Chaves, A. V., Waghorn, G., Brookes, I. M., Woodfield, D. R. (2006). Effect of maturation and initial harvest dates on the nutritive characteristics of ryegrass (*Lolium perenne* L.). *Animal Feed Science and Technology*, 127 (3-4), 293-318.

Morel, P. C. H., Camden, B. J., Purchas, R. W., Janz, J. A. M. (2006). Evaluation of three pork quality prediction tools across a 48 hours postmortem period. *Asian-Australian Journal of Animal Sciences*, 19 (2), 266-272.

Morel, P. C. H., Lee, T. S., Moughan, P. J. (2006). Effect of feeding level, live weight and genotype on the apparent faecal digestibility of energy and organic matter in the growing pig. *Animal Feed Science and Technology*, 126 63-74.

Morel, P. C. H., McIntosh, J. C., Janz, J. A. M. (2006). Alteration of the fatty acid profile of pork by dietary manipulation. *Asian-Australasian Journal of Animal Sciences*, 19 (3), 431-437.

Moughan, P. J., Jacobson, L. H., Morel, P. C. H. (2006). A genetic upper limit to whole-body protein deposition in a strain of growing pigs. *Journal of Animal Science*, 84 3301-3309.

Ravindran, V., Morel, P. C. H. (2006). Ileal amino acid digestibility of some novel dietary protein sources for growing chickens. *Journal of the Science of Food and Agriculture*, 86 2603-2608.

Ravindran, V., Morel, P. C H., Partridge, G G., Hruby, M., Sands, J S. (2006). Influence of an *Escherichia coli*-derived phytase on nutrient utilization in broiler starters fed diets containing varying concentrations of phytic acid. *Poultry Science*, 85 82-89.

Ravindran, V., Thomas, D. V., Thomas, D. G., Morel, P. C H. (2006). Performance and welfare of broilers as affected by stocking density and zinc bacitracin supplementation. *Animal Science Journal*, 77 110-116.

Ravindran, V., Wu, F. B., Thomas, D. G., Morel, P. C H. (2006). Influence of whole wheat feeding on the development of gastrointestinal tract and performance of broiler chickens. *Australian Journal of Agricultural Research*, 57 21-26.

Wilkinson, B. H P., Janz, J. A M., Morel, P. C H., Purchas, R. W., Hendriks, W. (2006). The effect of modified atmosphere packaging with carbon monoxide on the storage quality of master-packaged fresh pork. *Meat Science*, 73 (4), 605-610.

Woodward, S., Chaves, A. V., Waghorn, G., Brookes, I. M., Burke, J. L. (2006). Supplementing fresh pasture with maize, lotus, sulla and pasture silages for dairy cows in summer. *Journal of the Science of Food and Agriculture*, 86 (8), 1263-1270 Available from: <http://www3.interscience.wiley.com/cgi-bin/fulltext/112589735/PDFSTART>.

Journal Article - Editorial, Brief Communication, Letter or Note, Research

Morris, S. T., Morel, P. C H., Kenyon, P. R. (2006). The effect of individual liveweight and condition of beef cows on their reproductive performance and birth and weaning weights of calves. *New Zealand Veterinary Journal*, 54 (2), 96-100.

Oral Presentation - Professional / Community, Professional / Community

Morel, P. C H. (2006). *Reducing cost of production and improving profitability*. Presented to: NZ Pork Industry Board Meeting, Hawera, NZ, August 17.

Morel, P. C H. (2006). *Reducing cost of production and improving profitability*. Presented to: NZ Pork Industry Board Meeting, Christchurch, NZ, August 11.

Morel, P. C H. (2006). *Reducing cost of production and improving profitability*. Presented to: NZ Pork Industry Board Meeting, Timaru, NZ, August 10.

Morel, P. C H., Purchas, R. W. (2006). *The "EXPORK" project*. Presented to: NZ Pork Industry Board's Massey University Technical Day, Massey University, Palmerston North, NZ, June 12.

Visser, A., Morel, P. C H. (2006). *The right diet for the right pig*. Presented to: Fieldays, Mystery Creek, Hamilton, NZ, June 14-17.

Oral Presentation - University / Departmental Colloquia Series, Prof / Comm

Morel, P. C H. (2006). *Healthy and tasty pork*. Presented to: IFNHH Seminar Series, Massey University, Palmerston North, NZ, November 17.

Centre for Functional Genomics

Conference Contribution - Oral Presentation, Research

Scott, M. J., Concha, M. C., Belikoff, E., Sarkar, A. (2006). Improved germ-line transformation of the Australian sheep blowfly, *Lucilia cuprina*. , *3rd Research Co-ordination Meeting: Molecular*

Technologies to Improve the Effectiveness of the Sterile Insect Technique, November 2-6, Bangkok, Thailand.

Journal Article - Full Article in Journal, Research

Sarkar, A., Atapattu, A., Belikoff, E., Heinrich, J. C., Li, X., Horn, C., Wimmer, E. A., Scott, M. J. (2006). Insulated *piggyBac* vectors for insect transgenesis. *BMC Biotechnology*, 6 (27), 1-8.

Food

Conference Contribution - Full Paper in Published Proceedings, Research

Bennett, R. J., Trivedi, D. S., Hemar, Y., Reid, D C W., Illingworth, D., Lee, S. K. (2006). The effect of starch addition on the rheological and microstructural properties of model processed cheese. (pp. 157-159). *Australian Journal of Dairy Technology, Special Issue: Dairy Science World Series Conference Proceedings: 'Cheese Science 2006'*, 61(2), July 24-25, Sydney, NSW. Dairy Industry Association of Australia.

Conference Contribution - Poster, Research

Oh, H. E., Anema, S. G., Wong, M., Pinder, D. N., Hemar, Y. (2006). Effect of high pressure treatment on the behaviour of waxy and normal rice starches. , *3rd Innovative Food Centre Conference*, October 16-17, Melbourne, VIC.

Conference Contribution - Oral Presentation, Research

Oh, H. E., Anema, S. G., Wong, M., Pinder, D. N., Hemar, Y. (2006). Effect of high pressure treatment on the rheological behaviour of different starches. , *8th International Hydrocolloids Conference*, June 18-22, Norwegian University of Science and Technology, Trondheim, Norway.

Schotsmans, W. C R. (2006). Kinetic modelling of softening of early-harvested 'Hort16A' kiwifruit as measured with destructive and non-destructive techniques. , *6th ISHS International Kiwifruit Symposium*, February 20-24, Park Heritage Hotel, Rotorua, NZ.

Wong, M., Batalla-Orlinga-Ashton, O., Mcghie, T., Requejo-Jackman, C., Eyres, L., Sherpa, N., Woolf, A. (2006). Avocado oil: The colour of quality. , *231st American Chemical Society National Meeting*, March 26-30, Atlanta, GA.

Journal Article - Full Article in Journal, Research

Brennan, C. S., Suter, M., Matia-Merino, M. L., Luethi, T., Ravindran, G., Goh, K. T., Ovortrup, J. (2006). Gel and pasting behaviour of fenugreek-wheat starch and fenugreek-wheat flour combinations. *Starch*, 58 (10), 527-535.

Goh, K. T., Haisman, D. R., Singh, H. (2006). Characterisation of a high acyl gellan polysaccharide using light scattering and rheological techniques. *Food Hydrocolloids*, 20 176-183.

Goh, K. T., Pinder, D. N., Hall, C. E., Hemar, Y. (2006). Rheological and light scattering properties of flaxseed polysaccharide aqueous solutions. *Biomacromolecules*, 7 (11), 3098-3103 Available from: <http://pubs.acs.org/cgi-bin/article.cgi/bomaf6/2006/7/i11/pdf/bm060577u.pdf>.

Goh, K. T., Ye, A., Dale, N. (2006). Characterisation of ice cream containing flaxseed oil. *International Journal of Food Science and Technology*, 41 (8), 946-953 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2006.01151.x>.

Kroger, C., Bartle, C. M., West, J. G., Purchas, R. W., Devine, C. (2006). Meat tenderness evaluation using dual energy X-ray absorptiometry (DEXA). *Computers and Electronics in Agriculture*, 54 (2), 93-100.

Purchas, R. W., Busboom, J., Wilkinson, B. H P. (2006). Changes in the forms of iron and in concentrations of taurine, carnosine, coenzyme Q10 and creatine in beef longissimus muscles with cooking and simulated stomach and duodenal digestion. *Meat Science*, 74 (3), 443-449.

Schotsmans, W. C R., Prange, R. K. (2006). Controlled atmosphere storage and aroma volatile production. *Stewart Postharvest Review*, 5 (1), 1-8.

Institute of Food Nutr & Human Health

Conference Contribution - Poster, Research

Abhyankar, A., Matia-Merino, M. L. (2006). Rheology of acid milk protein gels with added polysaccharides. , *Foodtech Packtech Show*, October 17-19, ASB Showgrounds, Auckland, NZ.

Brennan, C. S., Brennan, M., Mais, A. (2006). The role of kumara fibre, starch and flour in regulating the potential glycaemic response from biscuits. , *30th Nutrition Society of Australia Annual Scientific Meeting*, November 29- December 2, The University of New South Wales, Sydney, NSW.

Brennan, C. S., Nair, S., Foster, K. D. (2006). The effect of fenugreek addition to bread dough on the masticatory properties of bread and hence its nutritional quality. , *30th Nutrition Society of Australia Annual Scientific Meeting*, November 29- December 2, University of New South Wales, Sydney, NSW.

Brennan, C. S., Suter, M., Matia-Merino, M. L., Luethi, T., Ravindran, G., Goh, K. T., Qvortrup, J. J. (2006). Fenugreek, its role as a food thickener. , *Foodtech Packtech Show*, October 17-19, ASB Showgrounds, Auckland, NZ.

Matia-Merino, M. L., Singh, H. (2006). Acid-induced gelation of milk protein concentrates with added pectin: Effect of casein micelle dissociation. , *11th Food Colloids Conference*, April 23-26, Montreux, Switzerland.

Perez-Marques, A. R., Matia-Merino, M. L., Garcia-Castillo, M. (2006). Rheological properties of rennet-induced gelation of skim sheep milk. , *13th World Congress of Food Science and Technology*, September 17-21, Nantes, France.

Conference Contribution - Oral Presentation, Research

McLaren, S. J. (2006). Critical evaluation of legal frameworks for the control of noise in early childhood education centres. , *35th International Congress and Exposition on Noise Control Engineering*, December 3-6, Sheraton Waikiki Hotel, Honolulu, HI.

McLaren, S. J., Rickson, D. J., Jones, L. M., Dickinson, P. (2006). Noise provisions in New Zealand early childhood education centres and a comparison of sound pressure levels with perceived noise assessed by trained observers. , *35th International Congress and Exposition on Noise Control Engineering*, December 3-6, Honolulu, HI.

Rickson, D. J., McLaren, S. J., Jones, L. M. (2006). Music to improve the auditory environment in an early childhood setting. , *10th Annual NZ Early Childhood Research Conference*, December 4-5, Wellington, NZ.

Conference Contribution - Proceedings Editor

Brennan, C. S., Savage, G. P. (2006). Proceedings of the Nutrition Society of New Zealand 40th Annual Conference. *Fourtieth Annual Conference of the Nutrition Society of New Zealand*, December, 2005, Massey University, Palmerston North, NZ. Nutrition Society of New Zealand.

Journal Article - Review Article, Professional / Community

Brennan, C. S. (2006). Chemistry and technology of soft drinks and fruit juices. *International Journal of Food Science and Technology*, 41 (6), 725 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2005.01115.x>.

Brennan, C. S. (2006). Chemistry and technology of soft drinks and fruit juices. *International Journal of Food Science and Technology*, 41 (1), 109-110 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2005.00999.x>.

Brennan, C. S. (2006). Electronic irradiation of foods: An introduction to the technology. A Springer Food Engineering series publications. *International Journal of Food Science and Technology*, 41 (9), 1110 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2006.01248.x>.

Brennan, C. S. (2006). Introduction to wine laboratory practices and procedures. *International Journal of Food Science and Technology*, 41 (9), 1108-1109 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2006.01220.x>.

Brennan, C. S. (2006). Re-defining mineral nutrition. *International Journal of Food Science and Technology*, 41 (4), 468-469 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2005.01016.x>.

Brennan, C. S. (2006). Vitamins: Their role in the human body. *International Journal of Food Science and Technology*, 41 (2), 221-222 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2005.01015.x>.

Journal Article - Full Article in Journal, Research

Carter, J., Jeukendrup, A E., Mundel, T., Jones, D. A. (2003). Carbohydrate supplementation improves moderate and high-intensity exercise in the heat. *Pflugers Archiv European Journal of Physiology*, 446 (2), 211-219.

Cleary, L. J., Brennan, C. S. (2006). The influence of a (1-3)(1-4)-beta-D-glucan rich fraction from barley on the physico-chemical properties and *in vitro* reducing sugars release of durum wheat pasta. *International Journal of Food Science and Technology*, 41 (8), 910-918 Available from: <http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1365-2621.2005.01141.x>.

Crooks, C. V., Wall, C. R., Cross, L., Rutherford-Markwick, K. J. (2006). The effect of bovine colostrum supplementation on salivary IgA in distance runners. *International Journal of Sport Nutrition and Exercise Metabolism*, 16 47-64.

El-Khayat, G. H., Samaan, J., Manthey, F. A., Fuller, M. P., Brennan, C. S. (2006). Durum wheat quality I: Some physical and chemical characteristics of Syrian durum wheat genotypes. *International Journal of Food Science and Technology*, 41 (Supplement 2), 22-29.

Fagan, C. C., O'Donnell, C. P., Cullen, P. J., Brennan, C. S. (2006). The effect of dietary fibre inclusion on milk coagulation kinetics. *Journal of Food Engineering*, 77 (2), 261-268.

Foster, K. D., Bronlund, J. E., Paterson, A. H J. (2006). Glass transition related cohesion of amorphous sugar powders. *Journal of Food Engineering*, 77 997-1006.

Foster, K. D., Woda, A., Peyron, M. A. (2006). Effect of texture of plastic and elastic model foods on the parameters of mastication. *Journal of Neurophysiology*, 95 3469-3479.

Garnevska, E., Edwards, J. R., Vaughan, D. R. (2006). SWOT analysis of the horticultural farms in the Plovdiv region of Bulgaria. *Bulgarian Journal of Agricultural Science*, 12 353-361.

Greyling, A., De Witt, C., Stonehouse, W., Jerling, J. C. (2006). Effects of a policosanol supplement on serum lipid concentrations in hypercholesterolaemic and heterozygous familial hypercholesterolaemic subjects. *British Journal of Nutrition*, 95 (5), 968-975.

Huang, K., Li, X., Ravindran, V., Bryden, W. L. (2006). Comparison of apparent ileal amino acid digestibility of feed ingredients measured with broilers, layers and roosters. *Poultry Science*, 85 625-633.

Morton, R. H. (2006). Home advantage in southern hemisphere rugby union: National and international. *Journal of Sports Science*, 24 (5), 495-499.

Morton, R. H. (2006). The critical power and related whole-body bioenergetic models. *European Journal of Applied Physiology*, 96 339-354.

Moruisi, K. G., Stonehouse, W., Opperman, A. M. (2006). Phytosterols/stanols lower cholesterol concentrations in familial hypercholesterolemic subjects: A systematic review with meta-analysis. *Journal of the American College of Nutrition*, 25 (1), 41-48.

Mundel, T., Hooper, P., Bunn, S. J., Jones, D. A. (2006). The effects of face cooling on the prolactin response and subjective comfort during moderate passive heating in humans. *Experimental Physiology*, 91 (6), 1007-1014.

Mundel, T., Jones, D. A. (2006). Effect of transdermal nicotine administration on exercise endurance in men. *Experimental Physiology*, 91 (4), 705-713.

Mundel, T., King, J., Collacott, E., Jones, D. A. (2006). Drink temperature influences fluid intake and endurance capacity in men during exercise in a hot, dry environment. *Experimental Physiology*, 91 (5), 925-933.

Ravindran, G., Ravindran, V., Bryden, W. L. (2006). Total and ileal digestible tryptophan contents of feedstuffs for broiler chickens. *Journal of the Science of Food and Agriculture*, 86 1132-1137.

Samaan, J., El-Khayat, G. H., Manthey, F. A., Fuller, M. P., Brennan, C. S. (2006). Durum wheat quality: II. The relationship of kernel physicochemical composition to semolina quality and end product utilisation. *International Journal of Food Science and Technology*, 41 (Supplement 2), 47-55.

Schutte, A. E., Van Rooyen, J. M., Huisman, H. W., Mukuddem-Petersen, J., Stonehouse, W., Hanekom, S. M., Jerling, J. C. (2006). Modulation of baroreflex sensitivity by walnuts versus cashew nuts in subjects with metabolic syndrome. *American Journal of Hypertension*, 19 (6), 629-636.

Selle, P. H., Ravindran, V., Bryden, W. L., Scott, T. (2006). Influence of dietary phytate and exogenous phytase on amino acid digestibility in poultry: A review. *Journal of Poultry Science*, 43 89-103.

Stonehouse, W., van Graan, A., Kruger, A., Vorster, H. H. (2006). Polyunsaturated fatty acid intake is adversely related to liver function in HIV-infected subjects: The THUSA study. *American Journal of Clinical Nutrition*, 83 (5), 1193-1198.

Woda, A., Foster, K. D., Mishellany, A., Peyron, M. A. (2006). Adaptation of healthy mastication to factors pertaining to the individual or to the food. *Physiology and Behaviour*, 89 (1), 28-35.

Oral Presentation - Professional / Community, Research

McLaren, S. J. (2006). *Hearing loss and special needs children*. Presented to: Rotary Club of Porirua Sundown, Rotary Club, Porirua, NZ, May 31.

Institute of Fundamental Sciences

Conference Contribution - Full Abstract in Published Proceedings, Research

Haverkamp, R. G., Marshall, A. T., Williams, M. A K. (2006). Single molecule polysaccharide stretching: A model for the conformational transformations *Proceedings of the World Polymer Congress: 41st International Symposium on Macromolecules*, July 16-21, Rio de Janeiro, Brazil. Brazilian Polymer Association.

Marshall, A. T., Haverkamp, R. G., Williams, M. A K. (2006). Stretching single molecules of pectin and their force induced conformational transformations (151-152). In M. Lein (ed(s).). *Back to the Basics: From Small Molecules to Materials and Surfaces: Proceedings of the New Zealand Institute of Chemistry (NZIC) 2006 Conference*, December 2-6, Rotorua, NZ. New Zealand Institute of Chemistry.

Williams, M. A K., Haverkamp, R. G., Marshall, A. T., Draget, K. I. (2006). Stretching single polysaccharide molecules using AFM *8th International Hydrocolloids Conference*, June 18-22, Norwegian University of Science and Technology, Trondheim, Norway. Norwegian University of Science and Technology.

Conference Contribution - Full Paper in Published Proceedings, Research

Anema, S. G., Pinder, D. N., Hunter, R J., Hemar, Y. (2006). Effects of storage temperature on the solubility of milk protein concentrate (MPC85). (pp. 386-393). *Food Hydrocolloids (Special Edition): 7th International Hydrocolloids Conference, 20(2-3)*, August 29-September 1, 2004, Melbourne, VIC. Elsevier.

Pinder, D. N., Swanson, A. J., Hebraud, P., Hemar, Y. (2006). Micro-rheological investigation of dextran solutions using diffusing wave spectroscopy. (pp. 240-244). *Food Hydrocolloids (Special Edition): 7th International Hydrocolloids Conference, 20(2-3)*, August 29-September 1, 2004, Melbourne, VIC. Elsevier.

Journal Article - Full Article in Journal, Research

Chor, B., Hendy, M. D., Snir, S. (2006). Maximum likelihood Jukes-Cantor triplets: Analytic solutions. *Molecular Biology and Evolution*, 23 (3), 626-632 Available from: <http://mbe.oxfordjournals.org/cgi/reprint/23/3/626>.

Institute of Information & Mathematical Science

Journal Article - Research

Kay, P. (2006). A grammar for a text based music scoring program. *Research Letters in the Information and Mathematical Sciences*, 9 1-6.

Journal Article - Professional & Other

Parsons, D. P. (2005). The Java location API. *Dr. Dobb's Journal*, (380), 53-58 January Published online 27th November 2005 www.ddj.com/showArticle.jhtml?articleID=184406388.

Conference Contribution - Full Abstract in Published Proceedings, Research

Ben-Tal, A., Smith, J. C. (2006). Simplified models for the control of respiration in mammals (36 *10th Oxford Conference on Modeling and Control of Breathing*, September 19-24, Lake Louise, AB. University of Calgary.

Senaratne, G. G., Sweatman, W. L., Wake, G. C., Keam, R. B. (2006). Microwave scattering at malignant tissue boundaries: A new method for breast screening (89 *Society of Instrument and Control Engineers (SICE) - Institute of Control, Automation and Systems Engineers (ICASE) International Joint Conference*, October 18-21, Busan, Korea. SICE/ICASE.

Wake, G. C. (2006). Effective thermal conductivity of composite materials - with application to frozen foods (6 *9th Manawatu-Wellington Applied Mathematics Conference*, October 26, Massey University, Palmerston North, NZ. ANZIAM.

Conference Contribution - Full Paper in Published Proceedings, Research

Day, K., Norris, A. C. (2006). Leadership in times of crisis during change due to health IT projects. InC. Peck & J. Warren (ed(s)). *HINZ Conference and Exhibition: Primary Care and Beyond: Building the e-Bridge to Integrated Care*, August 9-11, Auckland, NZ. Health Informatics New Zealand and Health Informatics Society of Australia Ltd.

Hare, K., Whitworth, B., Deek, F. P., Norris, A. C. (2006). A new approach to clinical IT resistance: The need for information technology confidentiality and mobility. InC. Peck & J. Warren (ed(s)). *HINZ Conference and Exhibition: Primary Care and Beyond: Building the e-Bridge to Integrated Care*, August 9-11, Auckland, NZ. Health Informatics New Zealand and Health Informatics Society of Australia Ltd.

Hawick, K. A., James, H. A., Scogings, C. J. (2006). A zoology of emergent patterns in a predator-prey simulation model. (pp. 84-89). InH. Nyongesa (ed(s)). *Proceedings of the 6th IASTED International Conference on Modelling, Simulation, and Optimization*, September 11-13, Gaborone, Botswana. International Association of Science and Technology for Development.

Hawick, K. A., James, H. A., Scogings, C. J. (2006). Grid-boxing for spatial simulation performance optimisation. (pp. 98-106). *Proceedings of the 39th Annual Simulation Symposium*, April 2-6, Huntsville, AL. IEEE Computer Society.

Hunter, J. J. (2006). Perturbed Markov chains. (pp. 99-112). *Proceedings of the International Statistics Workshop: Contributions to Probability and Statistics: Applications and Challenges*, April 4-5, 2005, University of Canberra, Canberra, ACT. World Scientific.

Kerr, K., Norris, A. C. (2006). Data quality maturity in the New Zealand health sector. InC. Peck & J. Warren (ed(s)). *HINZ Conference and Exhibition: Primary Care and Beyond: Building the e-Bridge to Integrated Care*, August 9-11, Auckland, NZ. Health Informatics New Zealand and Health Informatics Society of Australia Ltd.

Moir, T. J., Jeong, J. (2006). Identification of non-minimum phase transfer function components. (pp. 380-384). *Proceedings of the 6th IEEE International Symposium on Signal Processing and Information Technology*, August 27-30, Vancouver, BC. IEEE.

Rose, E. A., Jeffery, A. (2006). Requirements practice: What matters to small businesses that develop packaged software?. (pp. 4057-4066). *Proceedings of the 12th Americas Conference on Information Systems*, August 4-6, Acapulco, Mexico. Association for Information Systems.

Scogings, C. J., Hawick, K. A., James, H. A. (2006). Tools and techniques for optimisation of microscopic artificial life simulation models. (pp. 90-95). InH. Nyongesa (ed(s)). *Proceedings of the 6th IASTED International Conference on Modelling, Simulation and Optimization*, September 11-13, Gaborone, Botswana. International Association of Science and Technology for Development.

Stockdale, R. J., Lin, C., Liu, Y C. (2006). The perception of website effectiveness by West Australian small business owners in a B2B context. (pp. 588-599). *Proceedings of the 10th Pacific-Asia Conference on Information Systems*, July 6-9, Kuala Lumpur, Malaysia. Universiti Putra Malaysia.

Conference Contribution - Poster, Research

Ben-Tal, A., Smith, J. C. (2006). Simplified models for the control of respiration in mammals. , *10th Oxford Conference on Modeling and Control of Breathing*, September 19-24, Lake Louise, AB.

Conference Contribution - Oral Presentation, Research

Fitch, A. M., Jones, M. B. (2006). A comparison of methods to represent interactions in microarray data. , *Australian Statistical Conference / New Zealand Statistical Association Conference*, July 3-6, Auckland, NZ.

Hunter, J. J. (2006). The computation of moments of first passage times in a Markov chain. , *New Zealand Mathematics Colloquium*, December 4-6, University of Waikato, NZ.

Hunter, J. J. (2006). Variances of first passage times in a Markov chain with applications to mixing times. , *13th International Linear Algebra Society Conference*, July 18-21, Amsterdam, The Netherlands.

Laing, C. R. (2006). Periodically-forced finite networks of heterogeneous coupled oscillators. , *New Zealand Mathematics Colloquium*, December 4-6, University of Waikato, Hamilton, NZ.

Laing, C. R. (2006). Periodically-forced finite networks of heterogeneous coupled oscillators: A low-dimensional approach. , *9th Manawatu-Wellington Applied Mathematics Conference*, October 26, Massey University, Palmerston North, NZ.

Wake, G. C. (2006). Effective thermal conductivity of composite materials - with application to frozen foods. , *9th Manawatu-Wellington Applied Mathematics Conference*, October 26, Massey University, Palmerston North, NZ.

Journal Article - Full Article in Journal, Research

Ben-Tal, A. (2006). Simplified models for gas exchange in the human lungs. *Journal of Theoretical Biology*, 238 (2), 474-495.

Chan, H. H., Cooper, S., Toh, P. C. (2006). The 26th power of Dedekind's n-function. *Advances in Mathematics*, 207 532-543.

Cooper, S. (2006). Cubic elliptic functions. *The Ramanujan Journal*, 11 (3), 355-397.

Cooper, S. (2006). The quintuple product identity. *International Journal of Number Theory*, 2 (1), 115-161.

Cowpervait, P. S P. (2006). A spatial-temporal point process model of rainfall for the Thames catchment, UK. *Journal of Hydrology*, 330 (3-4), 586-595.

Cowpervait, P. S P., Lockie, T., Davis, M. D. (2006). A stochastic spatial-temporal disaggregation model for rainfall. *Journal of Hydrology*, 45 (1), 1-12.

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