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## Publications

### PhD Thesis

R. Paget, "Nonparametric Markov random field models for natural texture images," *University of Queensland*, Dec 1999.

### Journal Publications

J. Zátanyi, R. Paget, G. Székely, M. Grassi, M. Bajka, "Real-time Synthesis of Bleeding for Virtual Hysteroscopy," *Medical Image Analysis*, vol. 9, Issue 3, pp 255-266, June 2005.

R. Paget, "Strong Markov Random Field Model," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 26, n 3, pp. 408-413, March 2004.

R. Paget and I. D. Longstaff, "Texture synthesis via a noncausal nonparametric multiscale Markov random field," *IEEE Transactions on Image Processing*, vol. 7, n 6, pp. 925-931, June 1998.

R. Paget and I. D. Longstaff, "Extracting the cliques from a neighbourhood system," *IEE Proceedings Vision, Image and Signal Processing*, vol. 144, n 3, pp. 168-170, June 1997.

### Conference Publications

R. Paget, "An Automatic 3D Texturing Framework", *The 4th international workshop on texture analysis and synthesis (Texture 2005)*, Beijing, China, October 2005.

R. Paget, M. Harders, and G. Székely, "A Framework for Coherent Texturing in Surgical Simulators", *The 13th Pacific Conference on Computer Graphics and Applications (Pacific Graphics 2005)*, Macao, China, October 2005.

J. Zátanyi, R. Paget, G. Székely, and M. Bajka, "Real-time Synthesis of Bleeding for Virtual Hysteroscopy", *Medical Image Computing and Computer-Assisted Intervention (MICCAI) 2003*, Vol. 1, pp. 67--74, Springer Verlag, Montréal, Canada, 2003.

Alexey Zalesny, Dominik Auf der Maur, Rupert Paget, Maarten Vergauwen, and Luc Van Gool, "Realistic Textures for Virtual Anastylosis," *IEEE/CVPR Workshop on Applications of Computer Vision in Archaeology ACVA'03*, June, 2003.

R. Paget, J. Homer and D. Crisp, "(Automatic) Target detection in synthetic aperture radar imagery via terrain recognition," *IEEE International Conference on Image Processing*, Oct 2001.

R. Paget and I. D. Longstaff, "Open-ended texture classification for terrain mapping," *IEEE International Conference on Image Processing*, vol. 3, pp. 584-587, Sept 2000.

R. Paget and I. D. Longstaff, "Nonparametric Markov Random Field Model Analysis of the MeasTex Test Suite," *IAPR International Conference on Pattern Recognition*, vol. 3, pp. 939-942, Sept 2000.

R. Paget and I. D. Longstaff, "Texture synthesis and unsupervised recognition with a nonparametric multiscale Markov random field model," *IAPR 14th International Conference on Pattern Recognition*, vol. 2, pp. 1068-1070, Aug 1998.

J. Homer, J. Meagher, R. Paget, and I. D. Longstaff, "Terrain classification via texture modelling of SAR and SAR coherency images," in *Proceedings of 1997 IEEE International Geoscience and Remote Sensing Symposium (IGARSS'97)*, pp. 2063-2065, Aug 1997.

R. Paget, I. D. Longstaff, and B. Lovell, "Texture classification using nonparametric Markov random fields," in *Proceedings of the 1997 13th International Conference on Digital Signal Processing*, vol. 1, (Hellas, Santorini, Greece), pp. 67-70, IEEE Signal Processing Society, July 1997. Invited Paper.

R. Paget and I. D. Longstaff, "A nonparametric multiscale Markov random field model for synthesising natural textures," in *Fourth International Symposium on Signal Processing and its Applications*, vol. 2, (Gold Coast, Australia), pp. 744-747, ISSPA 96, August 1996.

R. Paget and I. D. Longstaff, "Texture synthesis via a nonparametric Markov random field," in *Proceedings of DICTA-95, Digital Image Computing: Techniques and Applications* (A. Maeder and B. Lovell, eds.), vol. 1, (Brisbane, Australia), pp. 547-552, Australian Pattern Recognition Society, December 1995.

R. Paget, I. D. Longstaff, and B. Lovell, "Multiprocessor Implementation of a Texture Segmentation Scheme for Satellite Radar Images," in *Proceedings of DICTA-93, Digital Image Computing: Techniques and Applications* (Ka Kit Fung and A. Ginige, eds.), vol. 1, (Brisbane, Australia), pp. 203-211, Australian Pattern Recognition Society, December 1993.

R. Paget, I. D. Longstaff, and B. Lovell, "Texture Recognition in SAR Images," in *Workshop in Pattern Analysis/Recognition* vol. 1, pp. 1-3, Australian Pattern Recognition Society, October 1992.