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PUBLICATII

Journal Papers:

- Dana E. Ilea and Paul F. Whelan, "CTex - An Adaptive Unsupervised Segmentation Algorithm Based on Colour-Texture Coherence", *IEEE Transactions on Image Processing* (**Impact factor: 9.34**), vol. 17, no. 10, 2008.
- Dana E. Ilea and Paul F. Whelan (2011), "Image Segmentation based on the Integration of Colour-Texture Descriptors - A Review", *Pattern Recognition* (**Impact factor: 7.19**), vol. 44, issues 10-11, October-November 2011, pp. 2479-2501. In the top 10 (#8) Hottest Pattern Recognition articles from January 2011 to December 2013.
- Dana E. Ilea Ghita, Caoimhe Duffy, Liam Kavanagh, Alice Stanton and Paul F. Whelan (2013), "Fully Automated Segmentation and Tracking of the Intima Media Thickness in Ultrasound Video Sequences of the Common Carotid Artery", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control* (**Impact factor: 2.81**), vol. 60, no. 1, pp. 158-177, January 2013. [Also - Highly Cited Articles in *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control* - January 2014 edition].
- Ovidiu Ghita, Dana E. Ilea and Paul F. Whelan (2013), "Texture Enhanced Histogram Equalisation Using TV-L1 Image Decomposition", *IEEE Transactions on Image Processing* (**Impact factor: 9.34**), vol. 22, no. 8, 2013, pp 3133-3144.
- C.M. Brown, C. Duffy, Dana E. Ilea, Paul F. Whelan, A.V. Stanton (2009), "Carotid artery stiffness is only one tenth that of aortic artery stiffness as assessed by pulse wave velocity", *Journal of Human Hypertension* (**Impact factor: 2.43**), vol. 23, no. 10, pp 698-699, 2009.
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- M. Lynch, Dana E. Ilea, K. Robinson, O. Ghita and Paul F. Whelan, "Automatic Seed Initialization for the Expectation-maximization Algorithm and its Application in 3D Medical Imaging", *Journal of Medical Engineering and Technology* (**Impact factor: 0.95**), vol. 31, no. 5, pp. 332 – 340, September/October 2007.

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Conference Papers.

- Dana E. Ilea, Paul F. Whelan, Catherine Brown, and Alice Stanton (2009), "An Automatic 2D CAD Algorithm for the Segmentation of the IMT in Ultrasound Carotid Artery Images", 31st Annual *International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS'09)*, September 2-6, 2009 Minnesota, USA.
- Dana E. Ilea and Paul F. Whelan (2009), "Colour Saliency-Based Parameter Optimisation for Adaptive Colour Segmentation", *IEEE International Conference on Image Processing (ICIP 2009)*, Cairo, Egypt November 7-11.
- Dana E. Ilea and Paul F. Whelan, "Colour Image Segmentation Using a Spatial K-Means Clustering Algorithm", Proceedings of the *IEEE Irish Machine Vision and Image Processing Conference (IMVIP 2006)*, pp. 146-153, Dublin City University, Ireland, 30 August – 1 September, 2006.
- Dana E. Ilea and Paul F. Whelan, "Adaptive Pre-Filtering Techniques for Colour Image Analysis", Proceedings of the *IEEE International Machine Vision and Image Processing Conference (IMVIP 2007)*, pp. 150-157, National University of Ireland, Maynooth, IEEE Computer Society Press, September 5 -7, 2007.
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- Dana E. Ilea, O. Ghita and Paul. F. Whelan, "Evaluation of Local Orientation for Texture Classification", Proceedings of the 3rd *International Conference on Computer Vision Theory and Applications (VISAPP 2008)*, pp. 357-364, Funchal, Madeira – Portugal, January 22-25, 2008.
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