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Generalized Connected Morphological Operators for Robust Shape Extraction

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Publications

Parts of the work presented in this thesis have been published in scientific journals and conference proceedings. Chapters 5 and 6 have been submitted to Pattern Recognition and IEEE Trans. Pattern Analysis and Machine Intelligence, respectively.

Scientific Journal Paper

- G.K. Ouzounis and M.H.F. Wilkinson. Mask-based second generation connectivity and attribute filters. IEEE Trans. Pattern Analysis and Machine Intelligence, Vol. 29, No. 6, June 2007, pp. 990-1004

Full papers in conference proceedings

- G.K. Ouzounis and M.H.F. Wilkinson. A parallel implementation of the Dual-Input Max-Tree algorithm for attribute filters. Int. Symp. Math. Morph. (ISMM) 2007, Oct. 10-13, 2007, Rio de Janeiro, pp. 449-460
- G.K. Ouzounis and M.H.F. Wilkinson. Filament enhancement by non-linear volumetric filtering using clustering-based connectivity. Lecture Notes in Computer Science, Vol. 4153, International Workshop on Intelligent Computing in Pattern Analysis/Synthesis, IWICPAS 2006, (N. Zheng, X. Jiang, and X. Lan, Eds.), Xi'an, China, August 2006, pp. 317-327.
- G.K. Ouzounis and M.H.F. Wilkinson. Countering over-segmentation in partitioning-based connectivities. Int. Conf. Image Proc. 2005, Vol. 3, September 11-14, Genova, Italy, pp. 844-847.
- G.K. Ouzounis and M.H.F. Wilkinson. Second-order connected attribute filters using Max-Trees. Mathematical Morphology: 40 years on, Proc. Int. Symp. Math. Morph. (ISMM) 2005, pp. 65-74.

Submitted Papers

- G.K. Ouzounis and M.H.F. Wilkinson. Hyperconnected attribute filters based on k-flat zones for 3D medical imaging. Submitted to IEEE Trans. Pattern Analysis and Machine Intelligence, 2008.
- G.K. Ouzounis and M.H.F. Wilkinson. Partition-induced connections and operators for pattern analysis. Submitted to Pattern Recognition, 2008.