

Refereed publications from the research program

Computerized Image Analysis (Datoriserad bildanalys)

Articles in journal

1. [Robust signal detection in 3D fluorescence microscopy](#). Amin Allalou, Amalka Pinidiyaarachchi, and Carolina Wählby. In *Cytometry. Part A*, volume 77A, number 1, pp 86-96, 2010.
2. [Effects of aging and gender on the spatial organization of nuclei in single human skeletal muscle cells](#). Alexander Cristea, Rizwan Qaisar, Patrick Karlsson Edlund, Joakim Lindblad, Ewert Bengtsson, and Lars Larsson. In *Aging Cell*, volume 9, number 5, pp 685-697, 2010.
3. [Signal Extraction and Separation in In Vivo Animal PET Studies with Masked Volumewise Principal-Component Analysis](#). Fredrik Engbrant, Azita Monazzam, Per-Edvin Svensson, Johan Olsson, Ewert Bengtsson, and Pasha Razifar. In *Journal of Nuclear Medicine Technology*, volume 38, number 2, pp 53-60, 2010.
4. [Image Processing System for Localising Macromolecules in Cryo-Electron Tomography](#). M. Gedda, L.-G. Öfverstedt, U. Skoglund, and S. Svensson. In *Machine Graphics & Vision*, volume 19, number 2, pp 159-184, Institute of Computer Science, Polish Academy of Science, Warsaw, Poland, 2010.
5. [Velocity and pressure-based partitions of horizontal and vertical trajectories for on-line signature verification](#). Muhammad Talal Ibrahim, M. Aurangzeb Khan, Khurram Saleem Alimgeer, M. Khalid Khan, Imtiaz A. Taj, and Ling Guan. In *Pattern Recognition*, volume 43, number 8, pp 2817-2832, 2010.
6. [Three-dimensional texture analysis of renal cell carcinoma cell nuclei for computerized automatic grading](#). Tae-Yun Kim, Hyun-Ju Choi, Hae-Gil Hwang, and Heung-Kook Choi. In *Journal of medical systems*, volume 34, number 4, pp 709-716, Springer, Netherlands, 2010.
7. [Different levels of 3D: An evaluation of visualized discrete spatiotemporal data in space-time cubes](#). Andreas Kjellin, Lars Winkler Pettersson, Stefan Seipel, and Mats Lind. In *Information Visualization*, volume 9, number 2, pp 152-164, 2010.
8. [Evaluating 2D and 3D Visualizations of Spatiotemporal Information](#). Andreas Kjellin, Lars Winkler Pettersson, Stefan Seipel, and Mats Lind. In *ACM Transactions on Applied Perception*, volume 7, number 3, pp 19:1-23, 2010.
9. [Constrained and Dimensionality-Independent Path Openings](#). Cris L. Luengo Hendriks. In *IEEE Transactions on Image Processing*, volume 19, number 6, pp 1587-1595, 2010.
10. [Revisiting priority queues for image analysis](#). Cris L. Luengo Hendriks. In *Pattern Recognition*, volume 43, number 9, pp 3003-3012, 2010.
11. [Improved methodology for identifying the teratogenic potential in early drug development of hERG channel blocking drugs](#). Mats F. Nilsson, C. Danielsson, A.-C. Sköld, A. Johansson, B. Blomgren, J. Wilson, Khalid Muhammad Khan Niazi, Ewert Bengtsson, Kim Kultima, W. S. Webster, and Bengt R. Danielsson. In *Reproductive Toxicology*, volume 29, number 2, pp 156-163, Elsevier, 2010.
12. [Coupling visualization and data analysis for knowledge discovery from multi-dimensional scientific data](#). Oliver Rübel, Sean Ahern, E. Wes Bethel, Mark D. Biggin, Hank Childs, Estelle Cormier-Michel, Angela DePace, Michael B. Eisen, Charless C. Fowlkes, Cameron G.R. Geddes, Hans Hagen, Bernd Hamann,

- Min-Yu Huang, Soile V.E. Keränen, David W. Knowles, [Cris L. Luengo Hendriks](#), Jitendra Malik, Jeremy Meredith, Peter Messmer, -. Prabhat, Daniela Ushizima, Gunther H. Weber, and Kesheng Wu. In *Procedia Computer Science*, volume 1, number 1, pp 1751-1758, 2010.
13. [Integrating data clustering and visualization for the analysis of 3D gene expression data](#). Oliver Rübél, Gunther H. Weber, Min-Yu Huang, E. Wes Bethel, Mark D. Biggin, Charless C. Fowlkes, Cris L. Luengo Hendriks, Soile V.E. Keränen, Michael B. Eisen, David W. Knowles, Jitendra Malik, and Bernd Hamann. In *IEEE/ACM Transactions on Computational Biology & Bioinformatics*, volume 7, number 1, pp 64-79, 2010.
 14. [Gradient based intensity normalization](#). Ida-Maria Sintorn, Leanne Bischof, Michael Buckley, Paul Jackway, and Stephen Haggarty. In *Journal of Microscopy*, volume 240, number 3, pp 249-258, 2010.
 15. [On the role of visual references in collaborative visualization](#). Lars Winkler Pettersson, Andreas Kjellin, Mats Lind, and Stefan Seipel. In *Information Visualization*, volume 9, number 2, pp 98-114, 2010.
 16. [Bright-Field Microscopy Visualization of Proteins and Protein Complexes by In Situ Proximity Ligation with Peroxidase Detection](#). Agata Zieba, [Carolina Wählby](#), Fredrik Hjelm, Lee Jordan, Jonathan Berg, Ulf Landegren, and Katerina Pardali. In *Clinical Chemistry*, volume 56, number 1, pp 99-110, 2010.

Conference papers

1. [Recognizing signs of malignancy: The quest for computer assisted cancer screening and diagnosis systems](#). [Ewert Bengtsson](#). In *International Conference on Computational Intelligence and Computing Research (ICCIC), 2010 IEEE*, pp 1-6, IEEE Digital Library, Coimbatore, India, 2010.
2. [Three-Dimensional Tracing of Neurites in Fluorescence Microscopy Images Using Local Path-Finding](#). [Magnus Gedda](#) and Pascal Vallotton. In *2010 IEEE International Conference On Acoustics, Speech And Signal Processing, 2010. ICASSP 2010.*, 2010.
3. [De-noising of SRμCT Fiber Images by Total Variation Minimization](#). Joakim Lindblad, Natasa Sladoje, and Tibor Lukic. In *Proceedings of the 20th International Conference on Pattern Recognition (ICPR10)*, pp 4621-4624, IEEE, 2010.
4. [PAPSYNTH: Simulated Bright-field Images of Cervical Smears](#). Patrik Malm, Anders Brun, and [Ewert Bengtsson](#). In *2010 IEEE International Symposium on Biomedical Imaging: From Nano to Macro*, volume 7 of Biomedical Imaging: From Nano to Macro, 2010.
5. [Relaxed Image Foresting Transforms for Interactive Volume Image Segmentation](#). Filip Malmberg, Ingela Nyström, Andrew Mehnert, Craig Engstrom, and Ewert Bengtsson. In *MEDICAL IMAGING 2010: IMAGE PROCESSING*, volume 7623 of Proceedings of SPIE-The International Society for Optical Engineering, 2010.
6. [Methods for Visualization of Bone Tissue in the Proximity of Implants](#). Hamid Sarve, Joakim Lindblad, Carina Johansson, and Gunilla Borgefors. In *International Conference on Computer Vision and Graphics*, volume 6375 of Lecture notes on computer science, pp 243-250, Springer, Heidelberg, 2010.
7. [A curvature based lightning model for quai-global diffuse illumination](#). Stefan Seipel, Fei Liu, and Martin Ericsson. In *Eurographics 2010 Posters*, 2010.
8. [Digital Distance Functions on a Honeycomb Point Lattice](#). Robin Strand and Benedek Nagy. In *Workshop on Applications of Discrete Geometry and Mathematical Morphology*, pp 17-21, 2010.

9. [Interpolation and Sampling on a Honeycomb Lattice](#). Robin Strand. In *Proceedings of 20th International Conference on Pattern Recognition*, IEEE proceedings, pp 2222-2225, IEEE computer society, 2010.
10. [Sampling and Ideal Reconstruction on the 3D Diamond Grid](#). Robin Strand. In *Proceedings of 20th International Conference on Pattern Recognition, Istanbul, Turkey, August 2010*, IEEE proceedings, pp 4609-4612, IEEE computer society, 2010.
11. [Estimation of linear deformations of 3D objects](#). Attila Tanács, Joakim Lindblad, Natasa Sladoje, and Zoltan Kato. In *Proceedings of 2010 IEEE 17th International Conference on Image Processing*, pp 153-156, 2010.

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