

Journal and conference articles – Vironova affiliation for at least one author

- **A Fast Fourier based Feature Descriptor and a Cascade Nearest Neighbour Search with an Efficient Matching Pipeline for Mosaicing of Microscopy Images**, A. Hast, V. A. Sablina, I. Sintorn, G. Kylberg, *Pattern Recognition and Image Analysis*, 28(2), 2018, doi:10.1134/S1054661818020050
- **Denoising of Short Exposure Transmission Electron Microscopy Images for Ultrastructural Enhancement** B. Bajic, A. Suveer, A. Gupta, I. Pepic, J. Lindblad, N. Sladoje, I. Sintorn, in *Proc IEEE International Symposium on Biomedical Imaging, ISBI2018, Washington DC, USA, pp. 921-925, 2018.*
- **Minimal Annotation Training for Segmentation of Microscopy Images**, D. J. Matuszewski, I. Sintorn, in *Proc IEEE International Symposium on Biomedical Imaging, ISBI2018, Washington DC, USA, pp. 2018.*
- **A short feature vector for image matching: The Log-Polar Magnitude feature descriptor**, DJ. Matuszewski, A. Hast, C. Wählby C, IM. Sintorn, *PLOS ONE 12(11): e0188496*, pp. 1-12. 2017.
- **Enhancement of Cilia Sub-structures by Multiple Instance Registration and Super-resolution Reconstruction**, A. Suveer, N. Sladoje, J. Lindblad, A. Dragomir, I. Sintorn, in *Proc. Scandinavian Conference on Image Analysis (SCIA 2017), Tromsø, Norway, Lecture Notes in Computer Science 10269, pp. 362-374, ,2017.*
- **Convolutional Neural Networks for False Positive Reduction of Automatically Detected Cilia in Low Magnification TEM Images**, A. Gupta, A. Suveer, J. Lindblad, A. Dragomir, I. Sintorn, N. Sladoje, , In *Proc, Scandinavian Conference on Image Analysis (SCIA), Tromsø, Norway, Lecture Notes in Computer Science 10269, pp. 407-418, 2017*
- **ProViz: a tool for explorative 3-D visualization and template matching in electron tomograms**, L. Svensson, S. Svensson, I. Nyström, F. Nysjö, J. Nysjö, A. Laloef, L. Den Hollander, A. Brun, S. Masich, L. Sandblad, M. Sani, I. Sintorn, *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, doi:10.1080/21681163.2016.1154483, 9 pages, 2016.
- **On the influence of interpolation method on rotation invariance in texture recognition**, G. Kylberg, I. Sintorn, , *EURASIP Journal on Image and Video Processing*, 2016:7 doi:10.1186/s13640-016-0117-6, 12 pages, 2016.
- **Asymmetric supercapacitors based on carbon nanofibre and polypyrrole/nanocellulose composite electrodes**, P. Tammela, Z. Wang, S. Fryklund, P. Zhang, I. Sintorn, L. Nyholm, M. Strømme, , *RSC Advances, Vol 21, pp. 16405-16413, 2015.*
- **A simple and efficient feature descriptor for fast matching**, A. Hast, V. Sablina, G. Kylberg, I. Sintorn, , in *Proc. International Conference on Computer Graphics, Visualization and Computer Vision (WSCG), pages 135–142, 2015.*

- **Virus Recognition Based on Local Texture**, I. Sintorn, G. Kylberg, in *Proc. IEEE 22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden*, pp. 3227-3232, 2014.
- **Segmentation of Virus Particle Candidates in Transmission Electron Microscopy Images**, G. Kylberg, M. Uppström, K. Hedlund, G. Borgefors, I. Sintorn, *Journal of Microscopy*, Vol. 245, pp. 140-147, 2012.
- **Virus Texture Analysis Using Local Binary Patterns and Radial Density Profiles**, G. Kylberg, M. Uppström, I. Sintorn, in *Proc. 16th Iberoamerican Congress on Pattern Recognition (CIARP), Pucón, Chile, Lecture Notes in Computer Science 7042*, pp. 573-580, 2011.
- **Local intensity and PCA based detection of virus particle candidates in transmission electron microscopy images**, G. Kylberg, I. Sintorn, M. Uppström, M. Ryner, in *Proc. IEEE Int. Symposium on Image and Signal Processing and Analysis, Salzburg, Austria*, pp. 426-431, 2009.
- **Towards Automated TEM for Virus Diagnostics: Segmentation of Grid Squares and Detection of Regions of Interest**, G. Kylberg, I. Sintorn, G. Borgefors, , in *Proc. Scandinavian Conference on Image Analysis (SCIA) , Oslo, Norway, Lecture notes in Computer Science 5575*, pp. 169-178, 2009.
- **A Refined Circular Template Matching Method for Classification of Human Cytomegalovirus Capsids in TEM Images**, I. Sintorn, M. Homman, C. Söderberg-Naucler, G. Borgefors, *Computer Methods and Programs in Biomedicine*, Vol. 76, No. 2, pp. 95-102, 2004.

Journal papers where Vironova mentioned in acknowledgement or as image/service provider

- **Influenza virus intracellular replication dynamics, release kinetics, and particle morphology during propagation in MDCK cells**, Timo Frensing, Sascha Y. Kupke, Mandy Bachmann, Susanne Fritzsche, Lili E. Gallo-Ramirez, Udo Reich, *Appl Microbiol Biotechnol* (2016) 100:7181–719
- **Enzymatic properties, evidence for *in vivo* expression, and intracellular localization of shewasin D, the pepsin homolog from *Shewanella denitrificans***, Ana Rita Leal, Rui Cruz, Daniel Bur, Pitter F. Huesgen, Rosário Faro, Bruno Manadas, Alexander Wlodawer, Carlos Faro, Isaura Simões, *Scientific Reports* (2016) 6:23869
- **Risk assessment of genetically modified pathogens: spotlight on influenza A viruses**, Kallfass C, *J. Verbr. Lebensm.* (2015) 10:259–262
- **Mechanisms of Hemagglutinin Targeted Influenza Virus Neutralization**, Boerries Brandenburg, Wouter Koudstaal, Jaap Goudsmit, Vincent Klaren, Chan Tang, Miriam V. Bujny, Hans J. W. M. Korse, Ted Kwaks, Jason J. Otterstrom, Jarek Juraszek,

Antoine M. van Oijen, Ronald Vogels, Robert H. E. Friesen, *PLoS ONE* (2013) 8(12): e80034

- **Receptor-targeted liposome-peptide nanocomplexes for siRNA delivery**, Aristides D. Tagalakis, Lin He, Luisa Saraiva, Kenth T. Gustafsson, Stephen L. Hart, *Biomaterials* 32 (2011) 6302-6315
- **Chitosan-based nanogels for selective delivery of photosensitizers to macrophages and improved retention in and therapy of articular joints**, Frédéric Schmitt, Lucienne Lagopoulos, Peter Käuper, Nathanaël Rossi, Nathalie Busso, Jérôme Barge, Georges Wagnières, Carsten Laue, Christine Wandrey, Lucienne Juillerat-Jeanneret,, *Journal of Controlled Release* 144 (2010) 242–250