

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

- **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. Laloeuf, 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.
- **Assessment of Different Electron Microscopy Techniques for Particle Size Quantification of Potential Nanomaterials**, Philipp Müller, Johannes Mielke, Vasile-Dan Hodoroaba, Ralf Kägi, Martin Ryner, *In proc. Microscopy & Microanalysis 21 (Suppl 3), paper 0158, Portland Oregon, USA, 2015. (abstract)*
- **Clustering in 2D as a Fast Deterministic Alternative to RANSAC**, A. Hast, G. Kylberg, *In proc. 2nd workshop on Features and Structures (FEAST), 2015 (abstract)*
- **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.*
- **Automatic Virus Identification using TEM: Image Segmentation and Texture Analysis**, G. Kylberg, PhD thesis in computerized image processing, Uppsala University, 2014.
- **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. 16'th Iberoamerican Congress on Pattern Recognition (CIARP), Pucón, Chile, LNCS 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, LNCS 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<sup>1</sup>, 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