

Circulum Vitae for Azadeh Fakhrzadeh

Personal Data

Name: Azadeh Fakhrzadeh

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Education

2010–2015	PhD in Computerized Image Processing, Centre for Image Analysis, Uppsala University, Uppsala, Sweden. Thesis: Computerized Cell and Tissue Analysis Supervisors: <ol style="list-style-type: none">1. Prof. Cris L. Luengo Hendriks, Uppsala University, Sweden2. Prof. Gunilla Borgefors, Uppsala University, Sweden
2006–2007	M.Sc. in Electrical and Computer Engineering, Ryerson University Toronto, Canada. Thesis: Minimum Noiseless Description Length (MNDL) Denoising Supervisor: Prof. Soosan Beheshti
1999–2003	B.Sc. in Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran. Thesis: Design and Manufacture of Digital Temperature and Pressure Gauges.

Publications

Journal papers

- 2016 Hardy Hall, [Azadeh Fakhrzadeh](#), Cris L. Luengo Hendriks, Urs Fischer, *Precision Automation of Cell Type Classification and Sub-Cellular Fluorescence Quantification from Laser Scanning Confocal Images*, *Frontiers in Plant Science*, Volume 7, Number 119, DOI: 10.3389/fpls.2016.00119.
Recommended in in F1000Prime as being of special significance in its field by F1000 Faculty Member David G Oppenheimer.
- 2016 [Azadeh Fakhrzadeh](#), Ellinor Spörndly-Nees, Elisabeth Ekstedt, Lena Holm and Cris L. Luengo Hendriks, *New computerized staging method to analyze mink testicular tissue in environmental research*, to Appear in *Journal of Environmental Toxicology and Chemistry*.
- 2015 Ellinor Spörndly-Nees, Elisabeth Ekstedt, Ulf Magnusson, [Azadeh Fakhrzadeh](#), Cris L. Luengo Hendriks, Lena Holm, *Effect of Pre-Fixation Delay and Freezing on Mink Testicular Endpoints for Environmental Research*, *PLoS ONE*, Volume 10, Number 5: e0125139. DOI: 10.1371/journal.pone.0125139.
- 2010 Soosan Beheshti, [Azadeh Fakhrzadeh](#), and Sridhar Krishnan, *Noiseless Codelength in Wavelet Denoising*, *EURASIP Journal on Advances in Signal Processing*, Volume 2010, Number 641842, DOI: 10.1155/2010/641842

Conference publications

- 2013 [Azadeh Fakhrzadeh](#), Ellinor Spörndly-Nees, Abdolrahim Kadkhodamohammadi, Lena Holm and Cris L. Luengo Hendriks, *Epithelial Cell Segmentation in Histological Images of Testicular Tissue Using Graph-Cut*. In proceeding of 17th International Conference on Image Analysis and Processing (ICIAP2013), pp. 201-208, Naples, Italy, September, 2013
- 2013 [Azadeh Fakhrzadeh](#), Ellinor Spörndly-Nees, Lena Holm and Cris L. Luengo Hendriks, *Epithelial Cell Layer Segmentation Using Graph-Cut and Its Application in Testicular Tissue*. *Medical Image Understanding and Analysis (MIUA 2013)*, Birmingham, United Kingdom, July 17-19, 2013.
- 2012 [Azadeh Fakhrzadeh](#), Ellinor Spörndly-Nees, Lena Holm and Cris L. Luengo Hendriks, *Analyzing Tubular Tissue in Histopathological Thin Sections*. In proceeding of 2012 International Conference on Digital Image Computing Techniques and Applications (DICTA2012), pp. 1-6, Fremantle, Australia, December 3-5, 2012.
- 2012 [Azadeh Fakhrzadeh](#), Ellinor Spörndly-Nees, Lena Holm and Cris L. Luengo Hendriks, *Automated Measurement of Epithelial Height of Testicular Tissue*, proceeding of Swedish Symposium on Image Analysis (SSBA 2012), Stockholm, Sweden, March 7-8, 2012.
- 2007 [Azadeh Fakhrzadeh](#) and Soosan Beheshti: *Minimum Noiseless Description Length (MNDL) Thresholding*, *IEEE Symposium on Computational Intelligence in Image and Signal Processing (CIISP 2007)*, April 2007, DOI: 10.1109/CIISP.2007.369308.

Teaching

Uppsala University	Computerized Assisted Image Analysis 1
	Computerized Assisted Image Analysis 2 Practical Application oriented Image analysis (PhD level course)
Ryerson University	ELE 352, Signals and Systems Processing

Supervision

2012	Abdolrahim Kadkhodamohammadi, Master thesis: Counting Sertoli Cells in Thin Testicular Tissue, 2012
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Presentations

2013	Epithelial Cell Layer Segmentation Using Graph-cut and Its Application in Testicular Tissue, in MIUA 2013, Birmingham, UK, July
2013	Epithelial Cell Segmentation in Histological Images of Testicular Tissue Using Graph-cut, in ICIAP 2013, Naples, Italy, September
2013	Studying the Structure of Seminiferous Tubules in Mink Testis using Image Analysis Techniques, The Nordic Symposium on Digital Pathology, Linkping, October
2012	Analyzing Tubular Tissue in Histopathological Thin Sections, in DICTA 2012, Fremantle, Australia, December
2012	Automated Measurement of Epithelial Height of Testicular Tissue, in SSBA 2012, Stockholm, Sweden, March
2011	Automated Analysis of Histological Images of Testicular Tissue, poster presentation, Brno summer school, Czech Republic, September
2011	Automated Measuring of Seminiferous Tubule Height, Centre for Image Analysis, Uppsala, Sweden, October
2010	Minimum Noiseless Description Length (MNDL) Thresholding, Centre for Image Analysis, Uppsala, Sweden, October

Experience

2010–present	Research Assistant, Centre for Image Analysis, Uppsala University, Uppsala, Sweden
2006–2008	Research Assistant, Ryerson University, Toronto, Ontario, Canada
2005–2006	Software Programmer intern, Civil Department of the University of Waterloo
2005–summer	Research Assistant intern, Advanced Micro-nano Devices Lab at the University of Waterloo,
2003–summer	Research Assistant, Biomedical Engineering Lab of Tarbiat Modarres University

Peer Review

	Pattern Recognition Letters
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Professional membership

International Association for Pattern Recognition (IAPR)
Swedish Society for Image Analysis (SSBA)
The British Machine Vision Association and Society for Pattern Recognition (BMVA)

Awards and Leadership

2014	Executive committee member of 22nd International Conference on Pattern Recognition, Stockholm, Sweden .
2013	Session chair, symposium of the Swedish Society for Automated Image Analysis (SSBA), Gothenburg, March.
2006–2007	Ryerson Graduate Award, 4000 CND
20012–2013	Mentoring junior PhD students of IT Department of Uppsala University
2002–2003	Executive committee member of International Mine Detector Robots Competition, Amirkabir University.

Programming Skills

Languages	C
Software	Matlab, Mathematica, DIPImage

Languages

Persian	Mother language
English	Fluent

References

Dr. Cris L. Luengo Hendriks, Flagship Biosciences Inc, Westminster, Colorado, E-mail: luengo@ieee.org
Prof. Dr. Gunilla Borgefors, Center for Image Analysis, Uppsala University, Uppsala, Sweden, Phone: +46 18 471 3466, E-mail: gunilla@cb.uu.se