

Manohar P. Kuse

PhD. Student

The Hong Kong University of Science & Technology
Clear Water Bay, Kowloon,
Hong Kong

Phone: (+852) 9276-6815

Email : mpkuse@ust.hk

University Page: <http://ihome.ust.hk/~mpkuse>

Personal Page: <http://kusemanohar.wordpress.com>

Fields of Interest

Video Coding, Computer Vision, Medical Image Analysis, Parallel Computing.

Publications

Tripati A. S., Mathur A., Daga M., **Kuse M.**, Au Oscar C. "2-SiMDoM: A 2-Sieve Model for Detection of Mitosis in Multispectral Breast Cancer Imagery" *International Conference on Image Processing (ICIP-2013)*, Melbourne, Australia.

Katyal R., Paneri S. and **Kuse M.** "Gaussian Intensity Model with Neighborhood Cues for Fluid-Tissue Categorization of Multi-Sequence MR Brain Images" *MBrainS Workshop at MICCAI-2013*, Nagoya, Japan.

Mathur A., Tripati A. S. & **Kuse M.** "Scalable System for Classification of White Blood Cells from Leishman Stained Blood Stain Images." *HIMA Workshop at MICCAI-2012*, Nice, France.

Kuse M., Wang YF, Kalasannavar V., Khan M. & Rajpoot N. "Local Isotopic Phase Symmetry Measure for Detection of Beta Cells" *International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI-2011*, Toronto, Canada.

Funding courtesy of 'American Society for Clinical Pathology' and 'LNMIIT'.

Kuse M., Sharma T. & Gupta S. "A Classification Scheme for Lymphocyte Segmentation in H & E Stained Histology Images" *International Conference on Pattern Recognition ICPR-2010*, Istanbul, Turkey.
Funding courtesy of 'Microsoft Research, India'.

Academics

PhD. Electronics and Computer Engg. (2013-) *(Expected completion 2017)

Institute: The Hong Kong University of Science & Technology (HKUST), Hong Kong

B.Tech. Communication and Computer Engg. (2008-2012),

Institute: The LNM Institute of Information Technology (LNM IIT), Jaipur

International Conferences Attended

ICIP-2013 : The 2013 IEEE International Conference on Image Processing held in Melbourne, Australia 15-18 September 2013.

MICCAI-2012 : The 15th International Conference on Medical Image Computing and Computer Assisted Intervention held in Nice, France 1-5 October 2012.

MICCAI-2011 : The 14th International Conference on Medical Image Computing and Computer Assisted Intervention held in Toronto, Canada 18-22 September 2011.

ICPR-2010 : The 21st International Conference Pattern Recognition (ICPR-2010) held in Istanbul, Turkey 23-26 August 2010.

Research Experience

European Organization for Nuclear Research (CERN), Geneva, Switzerland – Aug-Dec 2012
Code optimization and parallelization of AliRoot.
Technologies used: C++, Valgrind, Google Performance Tools, OpenMPs etc.

Dept. of Computer Science, University of Warwick, Coventry, UK – May-Jul 2011
Development of algorithms for automated analysis of histology imagery.
Technologies used: MatLAB.

SenoCAD Research GmbH, Alkmaar, The Netherlands – Jan-Mar 2011
Development and acceleration of tools for computer assisted medical diagnosis
Technologies used: OpenCV, Qt, CUDA.

Industrial Experience

ArcelorMittal Dhamm Processing Pvt. Ltd., Ranipet, India – June-July 2010
Developed a web-based system for cost estimation of heavy engineering products
Technologies used: PHP, AJAX, Javascript, CSS.

Computer Skills

Programming: C/C++, Java, Python

Web Development: HTML5, CSS, Javascript, PHP, MySQL

Operating Systems: GNU/Linux

Others: MatLAB, L^AT_EX, OpenCV(Image Processing), OpenMP (Parallel Computing), CUDA (GPU Programming), Shell Scripting, Qt

Awards, Recognitions, Activities

Our team is amongst top 17 teams out of 119 teams to be invited at “Mitosis Detection Contest” to be held in conjunction to The International Conference on Pattern Recognition (ICPR-2012) at Tsukuba City, Japan in Nov 2012.

Conducted a beginners oriented 12 day workshop on Image Processing at LNMIIT, Jaipur. Find more info [HERE](#).

Received travel grant from “American Society for Clinical Pathology” to attend MICCAI 2011 (14th International Conference on Medical Image Computing and Computer Assisted Intervention) in Toronto, Canada.

Received travel grant from “Microsoft Research, India” to attend ICPR 2010 (20th International Conference on Pattern Recognition) in Istanbul Turkey.

Our team declared winner of “PR in HIMA” contest held in conjunction with ICPR 2010 in Istanbul, Turkey.

References

Prof. Oscar C. Au
Professor
HKUST, Hong Kong
eeau@ust.hk

Prof. Michel Bruynooghe
Former Hon. Professor
University Louis Pasteur, Strasbourg, France
michel.bruynooghe@senocad.com

Dr. Nasir Rajpoot
Associate Professor
University of Warwick, UK
nasir@dcs.warwick.ac.uk

Last updated: April 17, 2014
<http://kusemanohar.wordpress.com>