

Manohar P. Kuse

PhD. Student

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Fields of Interest

Computer Vision, Medical Data Mining, Parallel Computing, Machine Learning.

Skills

Programming Languages: C/C++, Java, Python

Vision and Graphics: OpenCV, Matrox MIL, OpenGL, GLSL

High Performance Computing : OpenMP (Parallel Computing), CUDA (GPU Programming)

Robotics : ROS, RViz

Operating Systems: GNU/Linux

Others: MatLAB, L^AT_EX , Shell Scripting (BASH), Qt

Academics

PhD. Electronics and Computer Engg. (2013-)

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, India

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.

Publications

Kuse M., Jaiswal S. P. "Graph Modelling of 3D Geometric Information for Color Consistency of Multiview Images" *International Conference on Image Processing (ICIP-2015, Quebec City, Canada.*
Funding courtesy of 'IEEE Signal Processing Society (SPS)' and 'HKUST'.

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.*

Katyayal 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" HIMA Workshop *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" PR in HIMA Contest *International Conference on Pattern Recognition ICPR-2010, Istanbul, Turkey.*
Funding courtesy of 'Microsoft Research, India'.

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.

References

Prof. Oscar C. Au
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