

Manohar P. Kuse

The LNM Institute of Information Technology
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Objective

To work on a practical challenging problem and to enhance my learning by doing active research projects.

Fields of Interest

Computer Assisted Medical Image Analysis, Computer Vision, Machine Learning, Graph Theory.

Publications & Conferences

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.*

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. In pre-print.*

Internships

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.

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.

Academics

B.Tech. Communication and Computer Engg., *expected completion* June 2012.

Institute: The LNM Institute of Information Technology (LNM IIT), Jaipur
Current CPI: 7.74 / 10 (After 6 Sem)

Academic Projects

Character Recognition – Sept-Nov 2010

Description: Developed a simple system for recognition of characters

Distributed Database Systems – Mar-Apr 2010

Description: Developed a simple search engine cache system and used MySQL Cluster as backend database system.

Connected Component Analysis – Oct-Nov 2009

Description: Developed a two pass algorithm for connected component analysis in a colored image. We implemented the algorithm in C++ using OpenCV Image Processing Library.

Network Flows – Oct 2009

Description: We implemented the Edmund-Karp algorithm for network flows. We used C++ and Java for this project.

Neural Network – May-June 2009

Description: Developed a multi-layer neural network as an universal function approximator. We implemented the network in C++.

JDoku, A Sudoku Solver – Jan-June 2009

Description: A GUI program. User needs to input the sudoku grid, and it solves the sudoku. It has over 250 downloads at softpedia. Currently there are three logics

Technologies used: Java Swing(GUI Package in Java)

Website: <http://mac.softpedia.com/get/Games/JDoku.shtml>

Anagram Cheat, This would make a Anagram game useless – Feb 2009

Technologies used: PHP, C++

Website: <http://kusemanohar.tk>

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), System Programming under Linux, Shell Scripting, Qt

References

Dr. Nasir Rajpoot

Associate Professor

University of Warwick, UK
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Prof. Michel Bruynooghe

Former Hon. Professor

University Louis Pasteur, Strasbourg, France
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Mr. Sudhir Gupta

Assistant Professor

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