## References

- 1. (2008). The MathWorks Tutorial. The MathWorks, Inc.
- 2. Support vector machine. (2011, April 24). Retrieved April 25, 2011, from Wikipedia, the free encyclopedia: http://en.wikipedia.org/wiki/Support\_vector\_machine
- 3. A. Cao, Q. S. (2008). Robust information clustering incorporating spatial information for breast mass detection in digitized mammograms. *Computer Vision and Image Understanding*, 86–96.
- 4. A.Santhakumaran, F. P. (2010). Back Propagation Neural Network by Comparing Hidden Neurons: Case study on Breast Cancer Diagnosis. *International Journal of Computer Applications* (0975 8887), 2(4), 40-44.
- 5. Aguado, M. S. (2002). Feature Extraction and image processing.
- 6. Arumugam, S. H. (2006). Breast Tissue Classification Using Statistical Feature Extraction Of Mammograms. *Medical Imaging and Information Sciences*, 23(3), 105-107.
- 7. B. Sahiner, L. H. (2008). Concordance of computer-extracted image features with BI-RADS descriptors for mammographic mass margin. *Proceedings of SPIE*, the International Society for Optical Engineering, 6915, 69151N.1-69151N.6.
- 8. Bong-ryul Lee, J.-d. L.-j. (2010). Automated recommendation of initial mass positions for mass segmentation in digital mammograms. *Electronics and Information Engineering (ICEIE)*, 2010 International Conference On, V2-202
- 9. Boujelben, A. C. (2010). Feature Extraction from Contours Shape for Tumor Analyzing in Mammographic Images. *Digital Image Computing: Techniques and Applications*, 2009. *DICTA '09*.
- 10. Burdick, M. H. (1997). *Digital Imaging: Theory and Applications*. New York: McGraw-Hill, Inc. New York, USA.
- 11. Burges, C. (2005). GEOMETRICMETHODSFORFEATUREEXTRACTION AND DIMENSIONAL REDUCTION. In *Geometric Methods for Feature Extraction and Dimensional Reduction* (p. chapter 1).
- 12. Çamurcu, S. Ö. (2007). COMPUTER AIDED DETECTION OF MAMMOGRAPHIC MASSES ON DIGITAL MAMMOGRAMS. *Istanbul Ticaret Üniversitesi Fen Bilimleri Dergisi*.

- 13. Celia Varela, P. G. (2007). Computerized detection of breast masses in digitized mammograms. *Computers in Biology and Medicine*, 214-226.
- 14. Chan, L. Z. (2001). An artificial intelligent algorithm for tumor detection in screening mammogram. *IEEE Trans Med Imaging*, 559-567.
- 15. Davis, N. D. (2011, 7 22). *Mammography in Breast Cancer*. Retrieved 8 15, 2011, from Medscape Reference: http://emedicine.medscape.com/article/346529-overview#aw2aab6b3
- 16. Dheeba, J. a. (2010). Screening mammogram images for abnormalities using radial basis Function Neural Network. *Communication Control and Computing Technologies (ICCCCT)*.
- 17. Dougherty, G. (2009). *Digital Image Processing for Medical Applications*. California State University, Channel Islands: CAMBRIDGE UNIVERSITY PRESS.
- 18. Eddaoudi, F. (2011). Masses Detection Using SVM Classifier Based on Textures Analysis. *Applied Mathematical Sciences*, *5*(11), 367 379.
- 19. Eltoukhy, M. F. (2010). Automatic detection of breast masses in digital mammograms using pattern matching. *Biomedical Engineering and Sciences (IECBES)*, *IEEE EMBS*.
- 20. Engel, L. (2009, 8 27). *Mammogram Mistakes : Screening X-rays miss 15 to 20 percent of cancers*. Retrieved 8 16, 211, from Little About: http://www.littleabout.com/Health/mammogram-mistakes-screening-x-rays-15-20-percent-cancers/31103/
- 21. F. Fauci, S. B. (2004). Mammogram Segmentation by Contour Searching and Massive Lesion Classification with Neural Network. *IEEE Nuclear Science Symposium Conference Record*, 2695-2699.
- 22. F. Zou, Y. Z. (2008). Gradient Vector Flow Field and Mass Region Extraction in Digital Mammograms. *21st IEEE International Symposium on Computer Based Medical Systems*, 41-43.
- 23. Gao, Y. W. (2008). Mass detection algorithm based on support vector machine and relevance feedback. *Higher Education Press and Springer-Verlag*, *3*(3), 267–273.
- 24. H. Li, Y. W. (2001). Computerized radiographic mass detection--part II: Decision support by featured database visualization and modular neural networks. *IEEE Trans Med Imaging*, 20(4), 302-313.

- 25. H.B. Kekre, S. G. (2010). Tumor Demarcation in Mammography Images using LBG on Probability Image. *International Journal of Computer Applications*, 3(8), 47-53.
- 26. H.D. Cheng, X. S. (2006). Approaches for automated detection and classification of masses in mammograms. *Pattern Recognition*, 646 668.
- 27. Heang-Ping, C. (2006). Development of an Advanced Computer-Aided Diagnosis System for breast cancer detection. Michigan.
- 28. Hu, J. Z. (2008). Image Segmentation Based on 2D Otsu Method with Histogram Analysis. *International Conference on Computer Science and Software Engineering*.
- 29. Hui Li, M. L. (2008). Performance of CADx on a Large Clinical Database of FFDM Images. *IWDM '08 Proceedings of the 9th international workshop on Digital Mammography*, 5116, 510–514.
- 30. Ion, A. L. (2009). METHODS FOR KNOWLEDGE DISCOVERY IN IMAGES. *INFORMATION TECHNOLOGY AND CONTROL*, *38*, 43-50.
- 31. Islam, M. J. (2009). Computer-Aided Detection and Classification of Masses in Digitized Mammograms. *RESEARCH CENTRE FOR INTEGRATED MICROSYSTEMS UNIVERSITY OF WINDSOR*.
- 32. J. Bozek, M. M. (2009). A Survey of Image Processing Algorithms in Digital Mammography. *Recent Advances in Multimedia Signal Processing and Communications*, 631 657.
- 33. J. Lesniak, R. H. (2011). Computer Aided Detection of Breast Masses in Mammography using Support Vector Machine Classification. *Medical Imaging of Proceedings of the SPIE*.
- 34. J. Suckling, J. P.-L. (1994). The mammographic image analysis society digital mammogram database. *International workshop on digital mammography*, 375-378.
- 35. J.E. Ball, L. B. (2007). Digital Mammogram Spiculated Mass Detection and Spicule Segmentation using level sets. *Conf Proc IEEE Eng Med Biol Soc.*, 4979-4984.
- 36. Jing, X. S. (2009). Mass Detection in Digital Mammograms Using Twin Support Vector Machine-based CAD System . *WASE International Conference on Information Engineering*, 240-243.
- 37. Jirari, M. (2008). COMPUTER AIDED SYSTEM FOR DETECTING MASSES IN MAMMOGRAMS.

- 38. Jolliffe, I. T. (2002). Principal Component Analysis. 2nd edition, Springer.
- 39. Jong, E. M. (2003). Neural Networks.
- 40. Kai Hu, X. G. (feb. 2011). Detection of Suspicious Lesions by Adaptive Thresholding Based on Multiresolution Analysis in Mammograms. *Instrumentation and Measurement, IEEE Transactions on*, 462 472.
- 41. Kang, L. K. (2010). Mass computer-aided diagnosis method in mammogram based on texture features. *Biomedical Engineering and Informatics (BMEI)*, 2010 3rd International Conference on .
- 42. Kom G, T. A. (2007). Automated detection of masses in mammograms by local adaptive thresholding. *Comput. Biol. Med. 37 (1)*, 37–48.
- 43. L. Martins, G. S. (2009). Detection of Masses in Digital Mammograms using K-means and Support Vector Machine. *Electronic Letters on Computer Vision and Image Analysis*, 39-50.
- 44. L.O. Martins, A. C. (2009). Detection of Breast Masses in Mammogram Images Using Growing Neural Gas Algorithm and Ripley's K Function. *Journal of Signal Processing Systems*, 77-90.
- 45. Liu, X. Z. (2011). Mass Classification in Mammography with Morphological Features and Multiple Kernel Learning. *Bioinformatics and Biomedical Engineering*, 1 4.
- 46. M. A. Alolfe, W. A. (2009). Computer aided diagnosis in digital mammography using combined support vector machine and linear discriminant analysis classification. *IEEE*, 2609-2612.
- 47. M. VASANTHA, D. B. (2010). Medical Image Feature, Extraction, Selection and Classification. *International Journal of Engineering Science and Technology*, 2(6), 2071-2076.
- 48. M.A. Alolfe, W. M. (2009). Feature Selection in Computer Aided Diagnostic System for Microcalcification Detection in Digital Mammograms. *26th NATIONAL RADIO SCIENCE CONFERENCE*.
- 49. Mariusz Bajger, F. M. (2010). Mammographic Mass Detection with Statistical Region Merging. *Digital Image Computing: Techniques and Applications*, 27-32.
- 50. McAndrew, A. (2004). *An Introduction to Digital Image Processing with Matlab, semester 1*. Victoria University of Technology: School of Computer Science and Mathematics.

- 51. Michael Heath, K. B. (2001). The Digital Database for Screening Mammography. *Proceedings of the Fifth International Workshop on Digital Mammography, M.J. Yaffe, ed., Medical Physics Publishing*, 212-218.
- 52. Morse, B. S. (2000). *Computer Vision Fall 2009*. Retrieved April 10, 2011, from Lecture 4: Thresholding: http://morse.cs.byu.edu/650/home/index.php
- 53. N. Dongola, J. M. (2011, 7). *Mammography in Breast Cancer*. Retrieved 8 10, 2011, from Medscape: http://emedicine.medscape.com/article/346529-overview#aw2aab6b3
- 54. N. Riyahi Alam, F. Y. (2009). Computer-Aided Mass Detection on Digitized Mammograms using a Novel Hybrid Segmentation System. *INTERNATIONAL JOURNAL OF BIOLOGY AND BIOMEDICAL ENGINEERING*, 3(4), 51-56.
- 55. Nandi, A. R. (2007). ENHANCED MULTI-LEVEL THRESHOLDING SEGMENTATION AND RANK BASED REGION SELECTION FOR DETECTION OF MASSES IN MAMMOGRAMS. *IEEE*, 449-452.
- 56. Nandi, A. R. (2009). Toward breast cancer diagnosis based on automated segmentation of masses in mammograms. *Pattern Recognition*, 42(6), 1138-1148.
- 57. Ng, H.-F. (2005). Automatic thresholding for defect detection . *Pattern Recognition Letters*, 1644-1649 .
- 58. Otsu, N. (1979). A Threshold Selection Method from Gray-Level Histograms. *IEEE Transactions on Systems, Man, and Cybernetics*, 62-66.
- 59. P.Somol, J. N. (2010). Efficient Feature Subset Selection and Subset Size Optimization. *Pattern Recognition Recent Advances*, 75-98.
- 60. R. Fisher, S. P. (2003). *HYPERMEDIA IMAGE PROCESSING REFERENCE*. Retrieved April 14, 2011, from http://homepages.inf.ed.ac.uk/rbf/HIPR2/copyrght.htm
- 61. Rafael C. Gonzalez, R. E. (2004). Digital Image Processing using matlab.
- 62. Rahmati, P. a. (2009). Maximum Likelihood Active Contours Specialized for Mammography Segmentation. *Biomedical Engineering and Informatics*, 2009. *BMEI '09. 2nd International Conference on*.
- 63. Reston, V. (2003). ACR BI-RADS Mammography, Ultrasound & Magnetic Resonance Imaging. American College of Radiology.
- 64. Reyes, J. C. (2011). Evaluation of hybrids algorithms for mass detection in digitalized mammograms. *Journal of Physics: Conference Series* 274, 1-12.

- 65. Sampaio, W. D. (2009). Detection of Masses in Mammograms Using Cellular Neural Networks, Hidden Markov Models and Ripley's K Function. *Systems, Signals and Image Processing, 2009. IWSSIP 2009. 16th International Conference on*, 1 3.
- 66. Seemann, T. (2002). Digital Image Processing using Local Segmentation.
- 67. Selvi, Y. I. (2008). Digital Mammogram Segmentation and Tumor Detection Using Artificial Neural Network. *International Journal of Soft Computing*, 112-119.
- 68. Smith, L. I. (2002). A tutorial on Principal Components Analysis. CiteULike.
- 69. Suganthi, M. &. (2009). Mammogram tumor classification using multimodal features and Genetic Algorithm. *Control, Automation, Communication and Energy Conservation*, 2009. INCACEC 2009. 2009 International Conference on .
- 70. Titterington, J.-H. X. (2010). t-tests, F-tests and Otsu's Methods for Image Thresholding. *IEEE TRANSACTIONS ON IMAGE PROCESSING*, *PP*(99), 1-5.
- 71. Wirtti, T. a. (2011). Segmentation of masses in digital mammograms. *Biosignals and Biorobotics Conference (BRC)*.
- 72. Woods, R. C. (2008). *Digital Image Processing (3rd Edition)*. Upper Saddle River, NJ, USA: Prentice Hall.
- 73. Y. Luo, S. X. (2008). A PCA Based Unsupervised Feature Selection Algorithm. *Genetic and Evolutionary Computing*, 2008. WGEC '08. Second International Conference on .
- 74. Y. Yuan, M. G. (2008). Correlative Feature Analysis of FFDM Images. *Medical Imaging 2008: Computer-Aided Diagnosis*.
- 75. Y.Ireaneus Anna Rejani, D. S. (2009). EARLY DETECTION OF BREAST CANCER USING SVM CLASSIFIER TECHNIQUE. *International Journal on Computer Science and Engineering*, 127-130.
- 76. Ying, W. H. (2008). An Improved Image Segmentation Algorithm Based on Otsu Method. *International Symposium on Photoelectronic Detection and Imaging*.