DAFTAR PUSTAKA

[1] American Cancer Society, "Cancer Facts & Figures 2014," . Atlanta, Ga : American Cancer Society, 2014.

[2] Cancer Statistics, "Worldwide Cancer," *Article at cruk.org/cancerstats*.© Cancer Research UK 2015.

[3] Tim Penyusun Kemenkes RI, "Situasi Penyakit Kanker," *Article*. Pusat Data dan Informasi Kementrian Kesehatan RI. pp. 1–8, 2015.

[4] M. B. Mainiero, A. Lourenco, M. C. Mahoney, M. S. Newell, L. Bailey, L. D. Barke, C. D'Orsi, J. a Harvey, M. K. Hayes, P. T. Huynh, P. M. Jokich, S.-J. Lee, C. D. Lehman, D. a Mankoff, J. a Nepute, S. B. Patel, H. E. Reynolds, M. L. Sutherland, and B. G. Haffty, "ACR Appropriateness Criteria Breast Cancer Screening.," *J. Am. Coll. Radiol.*, vol. 10, no. 1, pp. 11–4, 2013.

[5] I. Biederman, "Recognition-by-components: a theory of human image understanding.," *Psychol. Rev.*, vol. 94, no. 2, pp. 115–147, 1987.

[6] M. S. Dinesh et al, "Classification of Mass in Breast Ultrasound Images using Image Processing Techniques," *Int. J. Comput. Appl.*, vol. 42, no. 10, pp. 29–36, 2012.

[7] S. Wu, Q. Zhu, and Y. Xie, "Evaluation of various speckle reduction filters on medical ultrasound images," in *35th Annual International Conference of the IEEE in Engineering in Medicine and Biology Society (EMBC)*, 2013, pp. pp.1148–1151.

[8] P. Jiang, J. Peng, G. Zhang, E. Cheng, V. Megalooikonomou, H. Ling, and S. Provincial, "Learning-Based Automatic Breast Tumor Detection And Segmentation In Ultrasound Images". School of Computer Science and Technology , Shandong University , Department of Ultrasound , Shandong Provincial Hospital Affiliated to Shandong University , P . R . Chi," *Science (80-.).*, pp. 1587–1590, 2012.

[9] V. Manikandan, M. F. I, and S. Dhanalakshmi, "Segmentation and Classification of Carotid Artery Ultrasound Images using Active Contours," *Int. Conf. Signal Process. Embed. Syst. Commun. Technol. their Appl. Sustain. Renew. Energy*, vol. 3, no. 3, pp. 151–154, 2014.

[10] P. S. Hiremath and J. R. Tegnoor, "Automatic Detection of Follicles in Ultrasound Images of Ovaries using Active Contours Method," *Proc. IEEE Int. Conf. Comput. Intell. Comput. Res.*, pp. 28–29, 2010.

[11] Y. Su, Y. Wang, J. Jiao, and Y. Guo, "Automatic detection and classification of breast tumors in ultrasonic images using texture and morphological features," *Open Med Inf. J*, vol. 5, no. Suppl 1, pp. 26–37, 2011.

[12] Lokesh, Shailaja, and Nanda, "Segmentation And Classification Of Breast Lesions In Ultrasound Images," *Int. J. Sci. Technol. Res.*, vol. 3, no. 6, pp. 238–242, 2014.

[13] V. Jinsamol, K. K., Shiji, T. P., & Thomas, "CAD system for Breast Ultrasound Images Using Multi-Scale Blob Detection and Active Contour Segmentation Algorithm," in *International Conference on Information Science*, 2014.

[14] A. E. Huque, "Shape Analysis and Measurement for the HeLa cell classification of cultured cells in high throughput screening," *Dissertation*. University of Skovde, Sweden, 2006.

[15] R. M. Kumar and S. K, "A survey on image segmentation," *Int. J. Comput. Sci. Inf. Technol.*, vol. 5, no. 6, 2014.

[16] H. D. Cheng, J. Shan, W. Ju, Y. Guo, and L. Zhang, "Automated breast cancer detection and classification using ultrasound images: A survey," *Pattern Recognit.*, vol. 43, no. 1, pp. 299–317, 2010.

[17] P. Wahdan and A. Saad, "Comparing Classification Techniques to Detect Breast Tumour *Input* Image processing Feature extraction," *Int. Conf. Biomed. Eng. Syst.*, no. 140, pp. 1–6, 2014.

[18] A. A. Gabriel, C. Editor, and J. Neal, "Vascular Anatomy and Innervation of the Breast,"*Article Medscape Reference. Drug, Disease and Procedure.* pp. 1–5, Diakses pada 04 Mei 2015 jam 20.30.http://reference.medscape.com/article/1273133overview#showall

[19] H. Fadjari, "Pendekatan Diagnosis Benjolan di Payudara,"*CDK - 192*. vol. 39, no. 4, pp. 308–310, 2012.

[20] M. Hamdi, E. Würinger, I. Schlenz, and R. Kuzbari, "Anatomy of the breast: A clinical application," *Vert. Scar Mammaplasty*, pp. 1–8, 2005.

[21] V. Kumar, R. S. Cotran, and S. L. Robbins, *Buku Ajar Patologi*. Vol. 2. Penerbit Buku Kedokteran : EGC. 2004. ISBN 978-979-448-843-0.

[22] E. J. Kantelhardt, "Benign Disease of the Breast."A Textbook of Gynecology for Less-Resourced Location. Chapter 25. pp 302-314. Sapiens Publishing. 2012.

[23] Stavros, D. Thickman, C. L. Rapp, M. a Dennis, S. H. Parker, and G. a Sisney, "Solid breast nodules: use of sonography to distinguish between benign and malignant lesions.," *Radiology*, vol. 196, no. 1, pp. 123–134, 1995.

[24] E. J. Corwin, *Handbook of Pathophisiology*. Penerbit Buku Kedokteran : EGC. 2001.

[25] N. M. Alnaimy and N. Khoumais, "Role of Ultrasonography in Breast Cancer Imaging," *PET Clin.*, vol. 4, no. 3, pp. 227–240, 2009.

[26] M. A. Kosir, "Breast Cancer," Breast Cancer BreastDisorders Merck Manual Professional Version. Diakses 8 Agustus 2015 jam 20.30. http://www.merckmanuals.com/professional/gynecolog, 2015.

[27] American Cancer Society, "Breast Cancer," Atlanta, Ga : American Cancer Society. 2013.

[28] A. Maryani, "Penatalaksanaan USG Payudara / Mammae Ultrasound,"*Jurnal Rontgen Indonesia.* pp. 1–9, 2015.

[29] C. M. Rumack, S. R. Wilson, J. W. Charboneau, and D. Levine, *Diagnostic Ultrasound Forth Edition.*, vol. 1, no. 4700. MOSBY - ELSEVIER. 2011.ISBN 978-0-323-05397-6

[30] "http://2.bp.blogspot.com/-u30-pOm2LN4/UGk_phI4UQI/AAAAAAAAAHA/Wx_xYk775yY/s1600/usg-cus9618f-big.jpg." Diakses pada 21 November 2015 jam 20.20.

[31] L. Levy, M. Suissa, J. F. Chiche, G. Teman, and B. Martin, "BIRADS ultrasonography," *Eur. J. Radiol.*, vol. 61, no. 2, pp. 202–211, 2007.

[32] G. Rahbar, A. C. Sie, G. C. Hansen, J. S. Prince, M. L. Melany, H. E. Reynolds, V. P. Jackson, J. W. Sayre, L. W. Bassett, and Others, "Benign versus malignant solid breast masses: US differentiation.," *Radiology*, vol. 213, no. 3, pp. 889–894, 1999.

[33] M. B. Mainiero, A. Goldkamp, E. Lazarus, L. Livingston, S. L. Koelliker, B. Schepps, and W. W. Mayo-smith, "Characterization of Breast Masses," *J ultrasound med*, vol. 24, pp. 161–167, 2005.

[34] E. B. Mendelson, W. a. Berg, and C. R. B. Merritt, "Toward a standardized breast ultrasound lexicon, BI-RADS: Ultrasound," *Semin. Roentgenol.*, vol. 36, no. 3, pp. 217–225, 2001.

[35] M. C. Barba, M. Paz, C. Bombardiere, F. Sarquis, G. Luna, and B. Miller, "Benign Breast Lesions that may Mimic Carcinoma in Diagnostic Imaging," RAR - Volumen 75 - Número 1 - 2011 ©SAR-FAARDIT, pp. 1–6, 2011.

[36] A. Kadir and A. Susanto, *Teori dan Aplikasi Pengolahan Citra*. Penerbit Andi . 2012.ISBN. : 978-979-29-3430-4

[37] R. Vanithamani, "Performance Analysis of Filters for Speckle Reduction in Medical Ultrasound Images," vol. 12, no. 6, pp. 23–27, 2010.

[38] Y. Huang and J. L. Genderen van, "Evaluation of Several Speckle Filtering Techniques for ERS-1 & 2 Imagery," *International Archives of Photogrammetry and Remote Sensing*, vol. XXXI, no. B2. pp. 164–169, 1996.

[39] A. Mohanapreethi and V. Srinivasaraghavan, "Performance Evaluation of Various Filtering Techniques for Speckle Suppression in Ultrasound Images," vol. 2, no. 4, pp. 29–35, 2014.

[40] M. H. Yap, E. a Edirisinghe, and H. E. Bez, "Fully automatic lesion boundary detection in ultrasound breast images," *Proc. SPIE 6512, Med. Imaging 2007 Image Process.*, p. 65123I–65123I, 2007.

[41] S. Aja-Fernández and C. Alberola-López, "On the estimation of the coefficient of variation for anisotropic diffusion speckle filtering," *IEEE Trans. Image Process.*, vol. 15, no. 9, pp. 2694–2701, 2006.

[42] K. Krissian, C.-F. Westin, R. Kikinis, and K. G. Vosburgh, "Oriented speckle reducing anisotropic diffusion.," *IEEE Trans. Image Process.*, vol. 16, no. 5, pp. 1412–24, 2007.

[43] S. Balocco, C. Gatta, O. Pujol, J. Mauri, and P. Radeva, "SRBF: Speckle reducing bilateral filtering.," *Ultrasound Med. Biol.*, vol. 36, no. 8, pp. 1353–63, 2010.

[44] Y. Yu and S. T. Acton, "Speckle reducing anisotropic diffusion for echocardiography," *Conf. Rec. - Asilomar Conf. Signals, Syst. Comput.*, vol. 11, no. 11, pp. 1260 – 1276, 2002.

[45] C. Tomasi and R. Manduchi, "Bilateral Filtering for Gray and Color Images," *Int. Conf. Comput. Vis.*, pp. 839–846, 1998.

[46] J. Tang, S. Guo, Q. Sun, Y. Deng, and D. Zhou, "Speckle reducing bilateral filter for cattle follicle segmentation," *BMC Genomics*, vol. 11, no. Suppl 2, p. S9, 2010.

[47] P. Perona and J. Malik, "Scale-space and edge detection using anisotropic diffusion," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 12, no. 7. pp. 629–639, 1990.

[48] M. Kass, A. Witkin, and D. Terzopoulos, "Snakes: Active contour models," *International Journal of Computer Vision*, vol. 1, no. 4. pp. 321–331, 1988.

[49] X. Bresson, S. Esedoglu, P. Vandergheynst, J. Thiran, and S. Osher, "Fast Global Minimization of the Active Contour / Snake Model," *J. Math. Imaging Vis.*, 2005.

[50] L. D. Cohen, "On active contour models and balloons," *Comput. Vision, Graph. Image Process. Image Underst.*, vol. 53, no. 2, pp. 211–218, 1991.

[51] J. L. Prince, "Gradient vector flow: a new external force for snakes," *Proc. IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit.*, vol. 2, no. 1, pp. 66–71, 1997.

[52] S. V. B. Jardim and M. A. T. Figueiredo, "Automatic Contour Estimation In Fetal Ultrasound Images," *Sci. Technol.*, pp. 3–6, 2003.

[53] B. Li and S. T. Acton, "Active contour external force using vector field convolution for image segmentation.," *IEEE Trans. Image Process.*, vol. 16, no. 8, pp. 2096–2106, 2007.

[54] Ghuneim, A.G, "Moore Neighborhood Tracing Algorithm." http://www.imageprocessingplace.com/downloads_V3/root_downloads/tutorials/contour_tracing_Abeer_George_Ghuneim/moore.html. Diakses pada 8 Agustus 2015 jam 20.30.

[55] J. Zunic, "Shape DescriptorsFor Image Analysis."http://elib.mi.sanu.ac.rs/files/journals/zr/23/zunic2.pdf Diakses pada 29 Agustus 2015 jam 19.00.

[56] C. Popescu, "A Contour Based Descriptor for Object Recognition," *SACI Transaction. Timisoara.* 2004.

[57] "Chain code." [http://www.mind.ilstu.edu/curriculum/chain_codes_. Diakses pada 8 Agustus 2015 jam 22.30.

[58] A. E. Huque, "Shape Analysis and Measurement for the HeLa cell classification of cultured cells in high throughput screening,"*Dissertation*. University of Skovde, Sweden, 2006.

[59] A. Nugroho, "Klasifikasi nodul tiroid berbasis ciri tekstur pada citra ultrasonografi," *Thesis*. Program Pascasarjana Fakultas Teknik Universitas Gadjah Mada Yogyakarta. 2015.

[60] S. Joo, Y. S. Yang, W. K. Moon, and H. C. Kim, "Computer-aided diagnosis of solid breast nodules: Use of an artificial neural network based on multiple sonographic features," *IEEE Trans. Med. Imaging*, vol. 23, no. 10, pp. 1292–1300, 2004.

[61] M. Alemán-Flores, P. Alemán-Flores, L. Álvarez-Leén, R. Fuentes-Pavón, and J. M. Santana-Montesdeoca, "Shape Analysis for Ultrasound Breast Lesion Evaluation," *Bild. für die Medizin 2007*, pp. 76–80, 2007.

[62] N. S. Lingayat and M. R. Tarambale, "A Computer Based Feature Extraction of Lung Nodule in Chest X-Ray Image," *Int. J. Biosci. Biochem. Bioinforma.*, vol. 3, no. 6, pp. 624–629, 2013.

[63] G. Vijaya, A. Suhasini, and R. Priya, "Automatic Detection of Lung Cancer in CT Images," in *International Journal of Research in Engineering and Technology*, 2014.

[64] K. Varalakshmi, "Classification of Lung Cancer Nodules using a Hybrid Approach," *J. Emerg. Trends Comput. Inf. Sci.*, vol. 4, no. 1, pp. 63–68, 2013.

[65] M. R. Tarambale and N. S. Lingayat, "Soft Tool Developement For Characterization Of Lung Nodule From Chest X-Ray Image,"*Int. J. Image Process. Vis. Sci.*, no. 1, pp. 7–12, 2012.

[66] J. Horejš, "Shape Analysis Using Global Shape Measures," *18th Annu. Conf. Proc. Tech. Comput. Bratislava*, vol. 40, no. 1, pp. 1–6, 2010.

[67] Mingqiang Yang, Kidiyo Kpalma, Joseph Ronsin. "A Survey of Shape Feature Extraction Techniques". Peng-Yeng Yin. Pattern Recognition, IN-TECH, pp.43-90, 2008. <hal-00446037>.

[68] K. Masood and N. Rajpoot, "Spatial Analysis for Colon Biopsy Classification from Hyperspectral Imagery.," *Ann. BMVA*, vol. 2008, no. 4, pp. 1–16, 2008.

[69] Saad, S.M., S.K. Guirguis and A.M. Emam."An efficient contour based shape descriptor for representation and classification of medical images". *Mansoura Eng. J.*, 31: 9-16. 2006.

[70] B. Shoelson, "Calculating arclengths…made easy! » File Exchange Pick of the Week." 2012.http://blogs.mathworks.com/pick/2012/04/27/calculating-arclengths-made-easy/. Diakses pada 5 Agustus 2015 jam 23.00.

[71] M. A. Hall, "Correlation-based Feature Selection for Machine Learning,"*Thesis*. Department of Computer Science, The University of Waikato, Hamilton, New Zealand. 1999.

[72] Suyanto, *Artificial Intelligence*. Penerbit Informatika. Bandung. 2007.