

DAFTAR PUSTAKA

- [1] WHO, "Latest world cancer statistics Global cancer burden rises to 14.1 million new cases in 2012," Geneva, 2013.
- [2] I. Kemenkes RI, "Situasi penyakit kanker," Jakarta Selatan, 2015.
- [3] ACR, "ACR Appropriateness Criteria," 2012.
- [4] A. T. Stavros, "The Breast," in in *Diagnostic Ultrasound*, 4th ed., C. M. Rumack, Ed. 2011, pp. 773–839.
- [5] American Cancer Society, "Breast Cancer What is cancer?," 2014, pp. 1–125.
- [6] NCI, "Mammograms Fact Sheet," *National Cancer Institute*, 2014. [Online]. Available: <http://www.cancer.gov/types/breast/mammograms-fact-sheet>. [Accessed: 20-Jun-2015].
- [7] A. T. 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," pp. 123–134, 1995.
- [8] L. Levy, M. Suissa, J. F. Chiche, G. Teman, and B. Martin, "BIRADS ultrasonography," *European journal of radiology*, vol. 61, no. 2, pp. 202–11, Feb. 2007.
- [9] W. Kuo, R. Chang, W. K. Moon, C. C. Lee, and D. Chen, "Computer-aided Diagnosis of Breast Tumors with Different US Systems 1," *Academic radiology*, vol. 9, no. 1, pp. 793–799, 2002.
- [10] C. Chen, Y. Chou, K. Han, C. Tiu, H. Chiou, and S. Chiou, "Breast Lesions on Sonograms : Computer-aided Diagnosis with Nearly Setting-Independent Features and Artificial Neural Networks 1," *Radiology*, vol. 226, no. 7, 2003.
- [11] Y.-L. Huang, D.-R. Chen, Y.-R. Jiang, S.-J. Kuo, H.-K. Wu, and W. K. Moon, "Computer-aided diagnosis using morphological features for classifying breast lesions on ultrasound.," *Ultrasound Obstet Gynecol*, vol. 32, no. 4, pp. 565–572, Sep. 2008.
- [12] W.-J. Wu and W. K. Moon, "Ultrasound breast tumor image computer-aided diagnosis with texture and morphological features.," *Academic radiology*, vol. 15, no. 7, pp. 873–80, Jul. 2008.

- [13] H. Yang, C. Chang, S. Huang, Y. Chou, and P. Li, "Breast Ultrasound Computer-Aided Diagnosis Using Both Acoustic and Image Features," *IEEE Ultrasonics Symposium*, pp. 2489–2492, 2007.
- [14] H. A. Nugroho, H. K. N. Yusufiyah, T. B. Adji, and A. Nugroho, "Zernike Moment Feature Extraction for Classifying Lesion 's Shape of Breast Ultrasound Image," in *The 7th ICITEE 2015*, 2015.
- [15] L. Sellami, O. Ben Sassi, K. Chtourou, and A. Ben Hamida, "Breast Cancer Ultrasound Images ' Sequence Exploration Using BI - RADS Features ' Extraction : Towards an Advanced Clinical Aided Tool for Precise Lesion Characterization," *IEEE Transactions on NanoBioscience*, vol. 1241, no. c, 2015.
- [16] S. Wu, Q. Zhu, and Y. X. P. D, "Evaluation of Various Speckle Reduction Filters on Medical Ultrasound Images," in *35th Annual International Conference of the IEEE EMBS*, 2013, pp. 1148–1151.
- [17] A. Nugroho and H. A. Nugroho, "Active Contour Bilateral Filtering for Breast Lesions Segmentation on Ultrasound Images," in *2015 International Conference on Science in Information Technology (ICSITech)*, 2015.
- [18] H. K. N. Yusufiyah, H. A. Nugroho, T. B. Adji, and A. Nugroho, "Feature Extraction for Classifying Lesion 's Shape of Breast Ultrasound Images," in *The 2nd International Conference on Information Technology, Computer, and electrical Engineering*, 2015, pp. 105–109.
- [19] D. A. Husna, H. A. Nugroho, and I. Soesanti, "Performance Analysis of Edge and Detail Preserved Speckle Noise Reduction Filters for Breast Ultrasound Images," in *The 2nd International Conference on Information Technology, Computer, and electrical Engineering*, 2015, pp. 79–83.
- [20] A. Kadir, W. Eny, Z. Wan, A. Rahman, and A. Ibrahim, "Segmentation of Masses from Breast Ultrasound Images using Parametric Active Contour Algorithm," in *International Conference on Mathematics Education Research 2010 (ICMER 2010)*, 2010, vol. 8, no. 5, pp. 640–647.
- [21] M. Savelonas, D. Maroulis, and D. Iakovidis, "A Variable Background Active Contour Model for Automatic Detection of Thyroid Nodules in Ultrasound Images," in *International Conference on Image Processing (ICIP) 2005*, 2005, pp. 17–20.
- [22] T. F. Chan and L. A. Vese, "Active Contours Without Edges," *IEEE Transactions on Image Processing*, vol. 10, no. 2, pp. 266–277, 2001.

- [23] S. Lankton, S. Member, and A. Tannenbaum, "Localizing Region-Based Active Contours," *IEEE Transactions on Image Processing*, vol. 17, no. 11, pp. 2029–2039, 2008.
- [24] J. Lee, Y. K. Seong, C. Chang, J. Park, M. Park, K. Woo, and E. Y. Ko, "Fourier-Based Shape Feature Extraction Technique for Computer-Aided B-Mode Ultrasound Diagnosis of Breast Tumor," in *34th Annual International Conference of the IEEE EMBS*, 2012, pp. 6551–6554.
- [25] A. Tahmasbi, F. Saki, and S. B. Shokouhi, "Classification of benign and malignant masses based on Zernike moments.," *Computers in biology and medicine*, vol. 41, no. 8, pp. 726–35, Aug. 2011.
- [26] M. Vorobyov, "Shape Classification Using Zernike Moments," California, 2011.
- [27] M. Yang, K. Kpalma, J. Ronsin, A. Survey, and S. Feature, "A Survey of Shape Feature Extraction Techniques," *Pattern Recognition*, pp. 43–90, 2010.
- [28] R. Rouhi, M. Jafari, S. Kasaei, and P. Keshavarzian, "Benign and malignant breast tumors classification based on region growing and CNN segmentation," *Expert Systems with Applications*, vol. 42, no. 3, pp. 990–1002, Feb. 2015.
- [29] F. A. Valea and V. L. Katz, "Diagnosis and Treatment of Benign and Malignant Disease," in *General Gynecology*, 2007, pp. 327–358.
- [30] R. Indrati, H. Setyawan S, and D. Handojo, "Faktor faktor risiko yang berpengaruh terhadap kejadian kanker payudara wanita," University of Diponegoro, 2005.
- [31] Minavathi, S. Murali, and M. S. Dinesh, "Dual Modality : Mammogram and Ultrasound Feature Level Fusion for Characterization of Breast Mass," *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, vol. 2, no. 6, pp. 1–11, 2013.
- [32] E. J. Kantelhardt, "Benign Disease of the Breast," in *Gynecology for Less_resourced Locations*, 2012, pp. 302–314.
- [33] H. Fadjari, "Pendekatan Diagnosis Benjolan di Payudara," Bandung, 2012.
- [34] H. Hille, "Advances in Breast Ultrasound," in *Sonography*, February, 2 ed., K. D. Thoires, Ed. China: InTech, 2012, pp. 73–90.

- [35] N. M. Alnaimy and N. Khoumais, "Role of Ultrasonography in Breast Cancer Imaging," *PET Clinics*, vol. 4, no. 3, pp. 227–240, Jul. 2009.
- [36] American College of Radiology, "ACR BI-RADS Atlas Fifth Edition."
- [37] L. Chala, E. Endo, D. F. Castro, P. Moraes, G. Cherri, and N. de Barros, "Gray-Scale Sonography of Solid Breast Masses : Diagnosis of Probably Benign Masses and Reduction of the Number of Biopsies," *Journal of Clinical Ultrasound*, vol. 32, pp. 9–19, 2006.
- [38] M. B. Mainiero, A. Goldkamp, E. Lazarus, L. Livingston, S. L. Koelliker, B. Schepps, and W. W. Mayo-smith, "Characterization of Breast Masses with Sonography," *Journal Ultrasound Medicine*, vol. 24, pp. 161–167, 2005.
- [39] G. Rahbar, A. C. Sie, G. C. Hansen, J. S. Prince, M. L. Melany, H. E. Reynolds, V. P. Jackson, J. W. Sayre, and L. W. Bassett, "Benign versus Malignant Solid Breast Masses :," *Radiology*, no. 13, pp. 889–894, 1999.
- [40] C. Rapp, "Solid Breast Nodules : Benign vs Malignant," Colorado, 2011.
- [41] J. Heinig, R. Witteler, R. Schmitz, L. Kiesel, and J. Steinhard, "Accuracy of classification of breast ultrasound findings based on criteria used for BI-RADS,," *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*, vol. 32, no. 4, pp. 573–8, Sep. 2008.
- [42] A. Kadir and A. Susanto, "Pengantar Pengolahan Citra," in in *Teori dan Aplikasi Pengolahan Citra*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2013, pp. 1–10.
- [43] A. Kadir and A. Susanto, "Pengenalan Dasar Citra," in in *Teori dan Aplikasi Pengolahan Citra*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2013, pp. 12–43.
- [44] A. Kadir and A. Susanto, "Operasi Ketetangaan Piksel," in in *Pengolahan Citra; Teori dan Aplikasi*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2013, pp. 73–126.
- [45] H. D. Cheng, J. Shan, W. Ju, Y. Guo, and L. Zhang, "Automated breast cancer detection and classification using ultrasound images : A survey," *Pattern Recognition*, vol. 43, no. 1, pp. 299–317, 2010.
- [46] S. K. Narayanan and R. S. D. Wahidabanu, "A View on Despeckling in Ultrasound Imaging," *International Journal of Signal Processing, Image Processing and Pattern Recognition*, vol. 2, no. 3, pp. 85–98, 2009.

- [47] C. Tomasi and R. Manduchi, "Bilateral Filtering for Gray and Color Images," in *International Conference on Computer Vision*, 1998.
- [48] S. Balocco, C. Gatta, O. Pujol, J. Mauri, and P. Radeva, "SRBF: Speckle reducing bilateral filtering," *Ultrasound in medicine & biology*, vol. 36, no. 8, pp. 1353–63, Aug. 2010.
- [49] S. Paris, P. Kornprobst, J. Tumblin, and F. Durand, "Bilateral Filtering: Theory and Applications," *Computer graphics and Vision*, vol. 4, no. 1, pp. 1–73, 2008.
- [50] A. Kadir and A. Susanto, "Segmentasi Citra," in *Pengolahan Citra; Teori dan Aplikasi*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2013, pp. 403–494.
- [51] A. Yekadria, "Perbandingan Beberapa Metode Active Contour: Snake, Region-based, dan Level Set dalam Proses Penentuan Tumor pada Citra Mammogram," Andalas University, 2012.
- [52] A. Kadir and A. Susanto, "Morfologi untuk Pengolahan Citra," in *Pengolahan Citra; Teori dan Aplikasi*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2013, pp. 211–281.
- [53] A. susanto Kadir, A., "Ekstraksi Fitur Bentuk dan Kontur," in *Pengolahan Citra; Teori dan Aplikasi*, 1st ed., D. Hardjono, Ed. Yogyakarta: Andi Offset, 2012, pp. 620–630.
- [54] R. S. Chora, "Image Feature Extraction Techniques and Their Applications for CBIR and Biometrics Systems," *International Journal of Biology and Biomedical Engineering*, vol. 1, no. 1, pp. 6–16, 2007.
- [55] M.-K. Hu, "Visual Pattern recognition by Moment Invariants," *IRE Transactions on Information Theory*, pp. 179–187, 1962.
- [56] A. K. Jain, *Fundamental of Digital Image Processing*. New Jersey: Prentice Hall, 1989.
- [57] A. Kadir, L. E. Nugroho, A. Susanto, and P. I. Santosa, "A Comparative Experiment of Several Shape Methods in Recognizing Plants," *International Journal of Computer Science and Information Technology*, vol. 3, no. 3, pp. 256–263, 2011.
- [58] A. Kadir, "Leaf Identification Using Fourier Descriptors and Other Shape Features," *Gate to Computer Vision and Pattern Recognition*, vol. 1, no. 1, pp. 3–7, Apr. 2015.

- [59] S. G. Wu, F. S. Bao, E. Y. Xu, Y. Wang, Y. Chang, and Q. Xiang, "A Leaf Recognition Algorithm for Plant Classification Using Probabilistic Neural Network," *IEEE International Symposium on Signal Processing and Information Technology*. pp. 11–16, 2007.
- [60] R. O. Duda, P. E. Hart, and D. G. Stork, *Richard O. Duda - Pattern Classification.pdf*, 2nd ed. .
- [61] A. G. Karegowda, A. S. Manjunath, G. Ratio, and C. F. Evaluation, "Comparative of Attribute Selection Using Gain Ratio," *International Journal of Information Technology and Knowledge Management*, vol. 2, no. 2, pp. 271–277, 2010.
- [62] Maria Mediatrix Sebatubun, "Ekstraksi Morfologi Kanker Paru-paru Primer Menggunakan Gray Level Co-Occurence Matrices," Gadjah Mada University, 2015.
- [63] P. Lei, "Adaptive Median Filtering," *Machine Vision 140.429 Digital Image Processing*.
- [64] D. Zhang and G. Lu, "A Comparative Study of Three Region Shape Descriptors," in *Digital Image Computing Techniques and Applications (DICTA) 2002*, 2002, no. January, pp. 1–6.