



DAFTAR PUSTAKA

- [1] W. H. Organization, “Cancer Media Centre,” 2015. [Online]. Available: <http://who.int/mediacentre/factsheets/fs297/en/>. [Accessed: 09-Apr-2016].
- [2] W. H. Organization, “Cancer country profiles 2014.” [Online]. Available: <http://who.int/cancer/country-profiles/en/>. [Accessed: 12-Apr-2016].
- [3] N. C. Institute, “SEER Stat Fact Sheets: Lung and Bronchus Cancer.” .
- [4] N. C. Institute, “Lung Cancer—Patient Version.” [Online]. Available: <http://www.cancer.gov/types/lung>. [Accessed: 13-Apr-2016].
- [5] LungCancer Organization, “What Is Lung cancer ?” [Online]. Available: http://www.lungcancer.org/find_information/publications/163-lung_cancer_101/265-what_is_lung_cancer. [Accessed: 12-Apr-2016].
- [6] N. C. Institute, “Non-Small Cell Lung Cancer Treatment,” 2016. [Online]. Available: <https://www.cancer.gov/types/lung/patient/non-small-cell-lung-treatment-pdq>.
- [7] LungCancer Organization, “Types and Staging of Lung Cancer.” [Online]. Available: http://www.lungcancer.org/find_information/publications/163-lung_cancer_101/268-types_and_staging.
- [8] L. C. Organization, “Symptoms of Lung Cancer.” [Online]. Available: http://www.lungcancer.org/find_information/publications/163-lung_cancer_101/266-symptoms.
- [9] American Cancer Society, “Cancer Facts & Figures 2016,” *Cancer Facts Fig. 2016*, pp. 1–9, 2016.
- [10] A. C. Society, “Lung Cancer (Non-Small Cell),” 2016. [Online]. Available: <http://www.cancer.org/cancer/lungcancer-non-smallcell/detailedguide/index>.
- [11] A. C. Society, “Lung Cancer (Small Cell),” 2016. [Online]. Available: <http://www.cancer.org/cancer/lungcancer-smallcell/detailedguide/index>.
- [12] P. C. Center, “APAKAH ITU KANKER PARU-PARU?” [Online]. Available: <http://id.parkwaycancercentre.com/informasi-kanker/jenis-kanker/apakah-itu-kanker-paru-paru/>. [Accessed: 08-Oct-2016].
- [13] T. N. L. S. T. R. Team, “Reduced Lung-Cancer Mortality with Low-Dose Computed Tomographic Screening,” *N. Engl. J. Med.*, vol. 365, no. 5, pp.



395–409, 2011.

- [14] A. Icksan, R. . Faisal, P. Astowo, H. Hidayat, and J. Prihartono, “Kriteria Diagnosis Kanker Paru Primer berdasarkan Gambaran Morfologi pada CT Scan Toraks Dibandingkan dengan Sitologi,” *Indones. J. Cancer*, 2008.
- [15] H. Krewer, B. Geiger, L. O. Hall, D. B. Goldgof, Y. Gu, M. Tockman, and R. J. Gillies, “Effect of Texture Features in Computer Aided Diagnosis of Pulmonary Nodules in Low-Dose Computed Tomography,” *2013 IEEE Int. Conf. Syst. Man, Cybern.*, pp. 3887–3891, 2013.
- [16] L. Devan, R. Santosham, and R. Hariharan, “ANOVA of Texture based Feature Set for Lung Tissue Characterization using Low-Dose CT Images,” *J. Comput. Appl.*, vol. VII, no. 1, 2014.
- [17] A. S. Al-fahoum, E. B. Jaber, and M. A. Al-jarrah, “Automated detection of lung cancer using statistical and morphological image processing techniques,” *J. Biomed. Graph. Comput.*, vol. 4, no. 2, pp. 33–42, 2014.
- [18] K. Punithavathy, M. M. Ramya, and S. Poobal, “Analysis of Statistical Texture Features for Automatic Lung Cancer Detection in PET / CT Images,” *Int. Conf. Robot. Autom. Control Embed. Syst. - RACE*, no. February, pp. 14–18, 2015.
- [19] S. K. V. Anand, “Segmentation coupled Textural Feature Classification for Lung Tumor Prediction,” in *International Conference Communication and Computing Technologies (ICCCCT)*, 2010, pp. 518–524.
- [20] S. Sivakumar and C. Chandrasekar, “Lung Nodule Detection Using Fuzzy Clustering and Support Vector Machines,” *Int. J. Eng. Technol.*, vol. 5, no. 1, pp. 179–185, 2013.
- [21] B. Zhao, G. Gamsu, M. S. Ginsberg, L. Jiang, and L. H. Schwartz, “Automatic detection of small lung nodules on CT utilizing a local density maximum algorithm,” *J. Appl. Clin. Med. Phys.*, vol. 4, no. 3, pp. 248–260, 2003.
- [22] S. A. Patil and M. B. Kuchanur, “Lung Cancer Classification Using Image Processing,” *Int. J. Eng. Innov. Technol.*, vol. 2, no. 3, pp. 37–42, 2012.
- [23] A. Kulkarni and A. Panditrao, “Classification of Lung Cancer Stages on CT Scan Image Using Image Processing,” in *2014 IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT)*, 2014, no. 978.
- [24] K. M. M. Tun and A. S. Khaing, “Feature Extraction and Classification of Lung Cancer Nodule using Image Processing Techniques,” *Int. J. Eng. Res. Technol.*, vol. 3, no. 3, pp. 2204–2210, 2014.



- [25] J. Zhou, S. Chang, D. N. Metaxas, B. Zhao, M. S. Ginsberg, and L. H. Schwartz, “An automatic method for ground glass opacity nodule detection and segmentation from CT studies,” *Annu. Int. Conf. IEEE Eng. Med. Biol. - Proc.*, pp. 3062–3065, 2006.
- [26] X. Ye, X. Lin, G. Beddoe, and J. Dehmeshki, “Efficient computer-aided detection of ground-glass opacity nodules in thoracic CT images,” *Annu. Int. Conf. IEEE Eng. Med. Biol. - Proc.*, pp. 4449–4452, 2007.
- [27] H. Kim, T. Nakashima, Y. Itai, S. Maeda, J. K. Tan, and S. Ishikawa, “Automatic detection of ground glass opacity from the thoracic MDCT images by using density features,” *ICCAS 2007 - Int. Conf. Control. Autom. Syst.*, pp. 1274–1277, 2007.
- [28] C. Jacobs, C. I. S'anchez, E. T. Scholten, S. C. Saur, T. Twellmann, P. A. de Jong, and B. van Ginneken, “Computer-Aided Detection of Ground Glass Nodules in Thoracic CT Images Using Shape, Intensity and Context Features,” in *Medical Image Computing and Computer-Assisted Intervention – MICCAI 2011*, 2011, pp. 207–214.
- [29] Maria Mediatrix Sebatubun, “Ekstraksi morfologi kanker paru-paru primer menggunakan gray level co-occurrence matrices, momen zernike dan kebulatan,” Universitas Gadjah Mada, 2015.
- [30] M. Paslawski, K. Krzyzanowski, J. Zlomaniec, and J. Gwizdak, “Morphological characteristics of malignant solitary pulmonary nodules,” *Ann. Univ. Mariae Curie-Sklodowska.Sectio D Med.*, vol. 59, no. 1, pp. 6–13, 2004.
- [31] G. Vijaya, A. Suhasini, and P. R, “Automatic Detection of Lung Cancer in CT Images,” *IJRET Int. J. Res. Res. Eng. Technol.*, vol. 3, no. 7, pp. 166–172, 2014.
- [32] J. G. Betts, P. Desaix, E. Johnson, J. E. Johnson, O. Korol, D. Kruse, B. Poe, J. A. Wise, M. Womble, and K. A. Young, “The Respiratory System,” in *Anatomy and physiology*, Textbook E., 2013, pp. 973–1008.
- [33] C. M. Oakley, “Normal structure.,” *Proc. R. Soc. Med.*, vol. 69, pp. 199–202, 1976.
- [34] Medhealth, “Lungs Function, Anatomy & Protection.” [Online]. Available: <http://www.med-health.net/Lungs-Function.html>.
- [35] A. Person and M. L. Mintz, “Anatomy and Physiology of the Respiratory Tract,” in *Disorders of the Respiratory Tract*, Humama Press, 2006, pp. 11–15.
- [36] C. C. Society, “Anatomy and physiology of the lung.” [Online]. Available:



<http://www.cancer.ca/en/cancer-information/cancer-type/lung/lung-cancer/the-lungs/?region=on#ixzz4RTcll14O>. [Accessed: 15-Oct-2016].

- [37] A. L. Association, “How Lungs Work.” [Online]. Available: <http://www.lung.org/lung-health-and-diseases/how-lungs-work/?referrer=http://www.lung.org/lung-health-and-diseases/how-lungs-work/>. [Accessed: 15-Oct-2016].
- [38] P. E. Center, “Lung Cancer Overview.” [Online]. Available: <http://www.patienteducationcenter.org/articles/lung-cancer-overview/>. [Accessed: 25-Sep-2016].
- [39] E. Health, “Chest X-ray.” [Online]. Available: <http://www.elitehealth.com/services/chest-xray.html>.
- [40] M. L. Giger, K. Doi, H. MacMahon, C. E. Metz, and F. F. Yin, “Pulmonary Nodules: Computer-aided Detection in Digital Chest Images,” *Radiographics*, vol. 10, no. 1, pp. 41–51, 1990.
- [41] S. Medical System, “Product CT Scanner.” [Online]. Available: <http://www.sanrad.in/ProductDetails.aspx?PID=20>.
- [42] F. Li, S. Sone, H. Abe, H. Macmahon, and K. Doi, “Malignant versus benign nodules at CT screening for lung cancer: comparison of thin-section CT findings.,” *Radiology*, vol. 233, no. 3, pp. 793–798, 2004.
- [43] C. I. Henschke, D. F. Yankelevitz, and W. J. Kostis, “CT Screening for Lung Cancer,” *Multidetector-Row CT Thorax*, vol. 24, no. 1, pp. 133–144, 2004.
- [44] R. H. Albert and J. J. Russell, “Evaluation of the solitary pulmonary nodule,” *Am.Fam.Physician*, vol. 80, no. 8, pp. 827–831, 2009.
- [45] H. T. Winer and M. Muram, “The Solitary Pulmonary Nodule 1,” 2006, vol. 239, no. 1.
- [46] A. Leung and R. Smithuis, “Solitary pulmonary nodule: benign versus malignant Differentiation with CT and PET-CT,” 2007. [Online]. Available: <http://www.radiologyassistant.nl/en/p460f9fc50637/solitary-pulmonary-nodule-benign-versus-malignant.html#i460fab2d9414a>.
- [47] A. Kadir and A. Susanto, *Pengolahan Citra Teori dan Aplikasi*. Yogyakarta: ANDI, 2012.
- [48] F. Y. Shih, *Image processing and pattern recognition: fundamentals and techniques*. John Wiley & Sons, 2010.
- [49] D. Putra, *Pengolahan Citra Digital*, 1st ed. Yogyakarta: ANDI, 2010.



- [50] S. Lankton and A. Tannenbaum, “Localizing region-based active contours,” *IEEE Trans. Image Process.*, vol. 17, no. 11, pp. 2029–2039, 2008.
- [51] R. M. Haralick, K. Shanmugam, and I. Dinstein, “Textural Features for Image Classification,” *IEEE Trans. Syst. Man. Cybern.*, vol. 3, no. 6, pp. 610–621, 1973.
- [52] H. Wibawanto, A. Susanto, T. S. Widodo, and S. M. Tjokronegoro, “Discriminating Cystic and Non Cystic Mass using GLCM and GLRLM-based Texture Features,” *Int. J. ...*, vol. 2, no. 4, pp. 569–580, 2010.
- [53] R. O. Duda, P. E. Hart, and D. G. Stork, “Pattern Classification.” Wiley, 2001.
- [54] Suyanto, *Artificial Intelligence*. Bandung: Penerbit Informatika, 2007.
- [55] M. Hall, E. Frank, G. Holmes, B. Pfahringer, P. Reutemann, and I. H. Witten, “The WEKA data mining software,” *SIGKDD Explor.*, vol. 11, no. 1, p. 10, 2009.
- [56] P. Refaeilzadeh, L. Tang, and H. Liu, “Cross-Validation,” *Encycl. Database Syst.*, pp. 532–538, 2009.