UNIVERSITAS
GADJAH MADA
KLASIFIKASI BUAH JERUK DENGAN FEATURE EXTRACTION STATISTIS DAN NEURAL NETWORK
Hilmi Yafi Al-Faruq, Dr. Indah Soesanti, S.T., M.T.;Ir. Oyas Wahyunggoro, M.T., Ph.D.
Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

[1] I. K. Kariyasa, "Dominasi Sektor Pertanian di Indonesia," *Republika,* April 6, 2017. [Online]. Available: http://www.republika.co.id. [Accessed: 23 March 2019].

[2] M. Hermann, T. Pentek, B. Otto, "Design Principles for Industrie 4.0 Scenarios," in *2016 49th Hawaii International Conference on System Sciences (HICSS), 5-8 January 2016, Koloa, HI, USA* [Online]. Available: IEEE Xplore, http://ieeexplore.ieee.org. [Accessed: 13 February 2018].

[3] Indonesia. Badan Pusat Statistik, *Produksi Tanaman Buah-buahan*. Jakarta. [Online]. Available: http://www.bps.go.id. [Accessed: 23 March 2019].

[4] Sutopo, "Panen dan Pasca Panen Jeruk," *BALITJESTRO,* May 21, 2011. [Online]. Available: http://balitjestro.litbang.pertanian.go.id . [Accessed: 23 March 2019].

[5] B. R. Lidiawaty, "Awas Keliru, Ini 5 Jenis Jeruk yang Biasa Dipakai dalam Masakan!" *IDN TIMES,* November 23, 2018. [Online]. Available: http://www.idntimes.com. [Accessed: 11 April 2019].

[6] K. Calesta, "Manfaat Air Jeruk Nipis untuk Diet dan Kesehatan," *COSMOPOLITAN,* December 8, 2018. [Online]. Available: http://www.cosmopolitan.co.id. [Accessed: 12 April 2019].

[7] Belajartani.com, "7 Jenis Jeruk yang Paling Banyak Ditanam di Indoneesia (Plus Gambar)," *BELAJARTANI.COM,* October 21, 2018. [Online]. Available: http://belajartani.com. [Accessed: 11 April 2019].

[8] X. Wang, C. Wu, M. Hirafuji, "Visible Light Image-Based Method for Sugar Content Classification of Citrus," *PLoS one,* vol. 11, no. 1, pp. e0147419, 2016. [Online]. Available: PLOS ONE, https://journals.plos.org . [Accessed: 15 August 2018].

[9] L. Zhang, L. Xu, "An Automatic Liver Segmentation Algorithm for CT Images U-Net with Separated Paths of Feature Extraction," in *2018 IEEE 3rd International Conference on Image, Vision and Computing (ICIVC), 27-29 June 2018, Chongqing, China* [Online]. Available: IEEE Xplore, http://ieeexplore.ieee.org. [Accessed: 5 December 2018].

UNIVERSITAS
GADJAH MADA
KLASIFIKASI BUAH JERUK DENGAN FEATURE EXTRACTION STATISTIS DAN NEURAL NETWORK
Hilmi Yafi Al-Faruq, Dr. Indah Soesanti, S.T., M.T.;Ir. Oyas Wahyunggoro, M.T., Ph.D.
Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

[10] P. Wan, A. Toudeshki, H. Tan, R. Ehsani, "A Methodology for Fresh Tomato Maturity Detection using Computer Vision," *Computers and Electronics in Agriculture*, vol. 146, pp. 43-50, 2018. [Online]. Available: ScienceDirect, http://www.sciencedirect.com . [Accessed: 14 August 2018].

[11] H. Afrisal, M. Faris, G. P. Utomo, L. Grezelda, I. Soesanti, M. F. Andri, "Portable Smart Sorting and Grading Machine for Fruits using Computer Vision," in *2013 International Conference on Computer, Control, Informatics and Its Applications (IC3INA), 19-21 November 2013, Jakarta, Indonesia* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org . [Accessed: 6 April 2018].

[12] H. Kaur, B. K. Sawhney, S. K. Jawandha, "Evaluation of plum fruit maturity by image processing techniques," *Journal of Food Science and Technology*, vol. 55, pp. 3008-3015, 2018. [Online]. Available: Springer Link, https://link.springer.com. [Accessed: 14 August 2018].

[13] P. Moallem, A. Serajoddin, H. Pourghassem, "Computer vision-based apple grading for golden delicious apples based on surface features," *Information Processing in Agriculture*, vol. 4, pp. 33-40, 2017. [Online]. Available: ScienceDirect, http://www.sciencedirect.com. [Accessed: 15 August 2018].

[14] S. Sabzi, Y. Abbaspour-Gilandeh, G. García-Mateos, "A new approach for visual identification of orange varieties using neural networks and metaheuristic algorithms," *Information Processing in Agriculture*, vol. 5, pp. 162-172, 2018. [Online]. Available: ScienceDirect, http://www.sciencedirect.com. [Accessed: 14 August 2018].

[15] F. S. Mim, S. M. Galib, M. F. Hasan, S. A. Jerin, "Automatic detection of mango ripening stages – An application of information technology to botany," *Scientia Horticulturae*, vol. 237, pp. 156-163, 2018. [Online]. Available: ScienceDirect, http://www.sciencedirect.com. [Accessed: 14 August 2018].

[16] A. Wajid, N. K. Singh, P. Junjun, M. A. Mughal, "Recognition of Ripe, Unripe and Scaled Condition of Orange Citrus Based on Decision Tree Classification," in *2018 International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), 3-4 March 2018, Sukkur, Pakistan* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 14 August 2018].

UNIVERSITAS
GADJAH MADA
KLASIFIKASI BUAH JERUK DENGAN FEATURE EXTRACTION STATISTIS DAN NEURAL NETWORK
Hilmi Yafi Al-Faruq, Dr. Indah Soesanti, S.T., M.T.;Ir. Oyas Wahyunggoro, M.T., Ph.D.
Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

[17] K. D. Humbird, J. L. Peterson, R. G. McClarren, "Deep Neural Network Initialization With Decision Trees," *IEEE Trans. Neural Netw. Learn. Syst.*, 2018. [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 15 March 2019].

[18] M. P. Arakeri, Lakshmana, "Computer Vision Based Fruit Grading System for Quality Evaluation of Tomato in Agriculture Industry," *Procedia Computer Science*, vol. 79, pp. 426-433, 2016. [Online]. Available: ScienceDirect, http://www.sciencedirect.com. [Accessed: 15 August 2018].

[19] J. Blasco, N. Aleixos, E. Moltó, "Computer vision detection of peel defects in citrus by means of a region oriented segmentation algorithm," *Journal of Food Engineering*, vol. 81, pp. 535-543, 2007. [Online]. Available: ScienceDirect, http://www.sciencedirect.com. [Accessed: 15 August 2018].

[20] M. N. Avadhanulu, P. G. Kshirsagar, *A Textbook of Engineering Physics*, 1st ed. Ram Nagar, New Delhi, India: S. Chand & Company Pvt. Ltd., 1992.

[21] R. C. Gonzalez, R. E. Woods, *Digital Image Processing*, 2nd ed. Upper Saddle River, NJ, USA: Prentice Hall, 2002.

[22] D. Vernon, *Machine Vision: Automated Visual Inspection and Robot Vision*. Upper Saddle River, NJ, USA: Prentice Hall, 1991.

[23] A. AbuBaker, R. Qahwaji, S. Ipson, M. Saleh, "One Scan Connected Component Labeling Technique," in *2007 IEEE International Conference on Signal Processing and Communications, 24-27 November 2007, Dubai, United Arab Emirates* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 18 March 2019].

[24] E. R. Davies, *Computer and Machine Vision: Theory, Algorithms, Practicalities*, 4th ed. Waltham, MA, USA: Academic Press, 2012.

[25] R. Fisher, S. Perkins, A. Walker, E. Wolfart, "Gaussian Smoothing," *Image Processing Learning Resources*. [Online]. Available: https://homepages.inf.ed.ac.uk/rbf/HIPR2/gsmooth.htm. [Accessed: 23 March 2019].

[26] N. Aggarwal, R. K. Agrawal, "First and Second Order Statistics Features for Classification of Magnetic Resonance Brain Images," *Journal of Signal and Information*

UNIVERSITAS
GADJAH MADA
KLASIFIKASI BUAH JERUK DENGAN FEATURE EXTRACTION STATISTIS DAN NEURAL NETWORK
Hilmi Yafi Al-Faruq, Dr. Indah Soesanti, S.T., M.T.;Ir. Oyas Wahyunggoro, M.T., Ph.D.
Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

Processing, vol. 3, pp. 146-153, 2012. [Online]. Available: ResearchGate, http://www.researchgate.net. [Accessed: 24 March 2019].

[27] W. Yuan, M. Hamit, A. Kutluk, C. Yan, L. Li, J. Chen, Y. Hu, F. Yang, "Feature Extraction and Analysis on Xinjiang Uygur medicine Image by Using Color Histogram," in *2013 IEEE International Conference on Medical Imaging Physics and Engineering, 19-20 October 2013, Shenyang, China* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 18 March 2019].

[28] R. M. Haralick, K. Shanmugam, I. Dinstein, "Textural Features for Image Classification," *IEEE Transactions on Systems, Man, and Cybernetics*, vol. SMC-3, pp. 610-621, 1973. [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 18 March 2019].

[29] G. Mukherjee, A. Chatterjee, B. Tudu, "Study on the potential of combined GLCM features towards medicinal plant classification," in *2016 2nd International Conference on Control, Instrumentation, Energy & Communication (CIEC), 28-30 January 2016, Kolkata, India* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 18 March 2019].

[30] A. Zwanenburg, S. Leger, M. Vallières, S. Löck, "Image biomarker standardisation initiative," *arXiv*, February 28, 2019. [Online]. Available: https://arxiv.org/abs/1612.07003. [Accessed: 24 March 2019].

[31] S. Kohli, S. Miglani, R. Rapariya, "Basic of Artificial Neural Network," International Journal of Computer Science and Mobile Computing, vol. 3, pp. 745-751, 2014. [Online]. Available: International Journal of Computer Science and Mobile Computing, https://ijcsmc.com. [Accessed: 21 March 2019].

[32] C. E. Nwankpa, W. Ijomah, A. Gachagan, S. Marshall, "Activation Functions: Comparison of Trends in Practice and Research for Deep Learning," *arXiv*, November 8, 2018. [Online]. Available: https://arxiv.org/abs/1811.03378. [Accessed: 13 April 2019].

[33] I. Fakhruzi, "An Artificial Neural Network with Bagging to Address Imbalance Datasets on Clinical Prediction," in *2018 International Conference on Information and Communications Technology (ICOIACT), 6-7 March 2018, Yogyakarta, Indonesia*

UNIVERSITAS
GADJAH MADA
KLASIFIKASI BUAH JERUK DENGAN FEATURE EXTRACTION STATISTIS DAN NEURAL NETWORK
Hilmi Yafi Al-Faruq, Dr. Indah Soesanti, S.T., M.T.;Ir. Oyas Wahyunggoro, M.T., Ph.D.
Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

[Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 13 April 2019].

[34] V. Dumoulin, F. Visin, "A guide to convolution arithmetic for deep learning," *arXiv*, January 11, 2018. [Online]. Available: https://arxiv.org/abs/1603.07285. [Accessed: 13 April 2019].

[35] O. Ronneberger, P. Fischer, T. Brox, "U-Net: Convolutional Networks for Biomedical Image Segmentation," *arXiv*, May 18, 2015. [Online]. Available: https://arxiv.org/abs/1505.04597. [Accessed: 21 March 2019].

[36] J. Zheng, Q. Ma, W. Zhou, "Performance Comparison of Full-Batch BP and Mini-Batch BP Algorithm on Spark Framework," in *2016 8th International Conference on Wireless Communications & Signal Processing (WCSP), 13-15 October 2016, Yangzhou, China* [Online]. Available: IEEE Xplore, http://www.ieeexplore.ieee.org. [Accessed: 13 April 2019].

[37] S. B. Kotsiantis, "Supervised Machine Learning: A Review of Classification Techniques," *Informatica*, vol. 31, pp. 249-268, 2007. [Online]. Available: Informatica, http://www.informatica.si. [Accessed: 21 March 2019].