DAFTAR PUSTAKA

Ahmeda, S. H., Alexanderb, T. C. dan Anagnostopoulosb, G. C. (2006) *Real-time, Static and Dynamic Hand Gesture Recognition for Human-Computer Interaction*. IEEE.

Alipin, Kaswari dan Marmawi (2014) "Peningkatan Hasil Belajar Operasi Perkalian dengan Metode Jarimatika," *Jurnal Pendidikan dan Pembelajaran*, 3(4).

Berg, D. M. de, Kreveld, D. M. van, Overmars, P. D. M. dan Schwarzkopf, D. O. C. (2000) "Computational Geometry : Algorithms and Application," in *Computational Geometry*. Springer Berlin Heidelberg, hal. 1–17.

Bhuyan, M. K., Neog, D. R. R. dan Kar, M. K. K. (2011) "Hand pose recognition using geometric features," in *2011 National Conference on Communications (NCC)*, hal. 1–5. doi: 10.1109/NCC.2011.5734786.

Bilal, S., Akmeliawati, R., El Salami, M. J. dan Shafie, A. A. (2011) "Vision-based hand posture detection and recognition for Sign Language #x2014; A study," in *Mechatronics (ICOM), 2011 4th International Conference On*, hal. 1–6. doi: 10.1109/ICOM.2011.5937178.

Biswas, S. dan Hazra, R. (2018) "Robust edge detection based on Modified Moore-Neighbor," *Optik*, 168, hal. 931–943. doi: 10.1016/j.ijleo.2018.05.011.

Boonbrahm, P. dan Kaewrat, C. (2014) "Assembly of the Virtual Model with Real Hands Using Augmented Reality Technology," in *Virtual, Augmented and Mixed Reality. Designing and Developing Virtual and Augmented Environments*, hal. 329–338. doi: 10.1007/978-3-319-07458-0_31.

Bretzner, L., Laptev, I. dan Lindeberg, T. (2002) "Hand gesture recognition using multi-scale colour features, hierarchical models and particle filtering," in *Automatic Face and Gesture Recognition, 2002. Proceedings. Fifth IEEE International Conference on*. IEEE, hal. 423–428.

Chatterjee, S. (2014) *Hand Gesture Recognition based on Fusion of Moments*. MTech. National Institute Of Technology, Rourkela, India. Tersedia pada: http://ethesis.nitrkl.ac.in/6485/1/E-31.pdf.

Choi, J., Seo, B.-K. dan Park, J.-I. (2009) "Robust Hand Detection for Augmented Reality Interface," in *Proceedings of the 8th International Conference on Virtual Reality Continuum and Its Applications in Industry*. New York, NY, USA: ACM (VRCAI '09), hal. 319–321. doi: 10.1145/1670252.1670324.

Cutler, R. dan Turk, M. (1998) "View-based interpretation of real-time optical flow for gesture recognition," in *Third IEEE International Conference on Automatic Face and Gesture Recognition, 1998. Proceedings*, hal. 416–421. doi: 10.1109/AFGR.1998.670984.

Datcu, D. dan Lukosch, S. (2013) "Free-hands interaction in augmented reality," in *Proceedings of the 1st symposium on Spatial user interaction - SUI '13*. New York, New York, USA: ACM Press, hal. 33. doi: 10.1145/2491367.2491370.

Dawod, A. Y., Abdullah, J. dan Alam, M. J. (2010) "Fingertips detection from color image with complex background," in *The 3rd International Conference on Machine Vision, ICMV*, hal. 88–96.

Dinh, D.-L., Lee, S. dan Kim, T.-S. (2016) "Hand number gesture recognition using recognized hand parts in depth images," *Multimedia Tools and Applications*, 75(2), hal. 1333–1348. doi: 10.1007/s11042-014-2370-y.

Dipietro, L., Sabatini, A. M. dan Dario, P. (2008) "A Survey of Glove-Based Systems and Their Applications," *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews*, 38(4), hal. 461–482. doi: 10.1109/TSMCC.2008.923862.

Dung, L. dan Mizukawa, M. (2009) "Fast hand feature extraction based on connected component labeling, distance transform and hough transform," *Journal of Robotics and Mechatronics*. Fuji Technology Press Ltd., 21(6), hal. 726–738.

Elmezain, M., Al-Hamadi, A., Pathan, S. S. dan Michaelis, B. (2009) "Spatio-temporal feature extraction-based hand gesture recognition for isolated American Sign Language and Arabic numbers," in *2009 Proceedings of 6th International Symposium on Image and Signal Processing and Analysis*. IEEE, hal. 254–259. doi: 10.1109/ISPA.2009.5297719.

Erol, A. *dkk* (2007) "Vision-based hand pose estimation: A review," *Computer Vision and Image Understanding*, 108(1–2), hal. 52–73. doi: 10.1016/j.cviu.2006.10.012.

Fang, Y., Wang, K., Cheng, J. dan Lu, H. (2007) "A real-time hand gesture recognition method," in *Multimedia and Expo, 2007 IEEE International Conference on*. IEEE, hal. 995–998.

Feng, Z. *dkk* (2011) "Features extraction from hand images based on new detection operators," *Pattern Recognition*, 44(5), hal. 1089–1105. doi: 10.1016/j.patcog.2010.08.007.

Freeman, H. dan Shapira, R. (1975) "Determining the Minimum-area Encasing Rectangle for an Arbitrary Closed Curve," *Commun. ACM*. New York, NY, USA: ACM, 18(7), hal. 409–413. doi: 10.1145/360881.360919.

Garg, P., Aggarwal, N. dan Sofat, S. (2009) "Vision based hand gesture recognition," *World Academy of Science, Engineering and Technology*, 49(1), hal. 972–977.

Ghazali, K. H. Bin, Ma, J. dan Xiao, R. (2011) "An innovative face detection based on skin color segmentation," *International Journal of Computer Applications*, 34(2), hal. 6–10.

Ghosh, D. K. dan Ari, S. (2011) "A static hand gesture recognition algorithm using k-mean based radial basis function neural network," in *2011 8th International Conference on Information, Communications & Signal Processing*. IEEE, hal. 1–5. doi: 10.1109/ICICS.2011.6174264.

Gonzalez, R. C. dan Woods, R. E. (2008) *Digital Image Processing (3th Edition)*. Third Edit. Upper Saddle River, NJ, United States of America: Pearson Prentice Hall.

Gonzalez, R. C., Woods, R. E. dan Eddins, S. L. (2009) *Digital Image processing using MATLAB®*. [United States]: Gatesmark Publishing.

Gorodnichy, D. dan Yogeswaran, A. (2006) "Detection and tracking of pianist hands and fingers."

Grzejszczak, T., Gałuszka, A., Niezabitowski, M. dan Radlak, K. (2014) "Comparison of Hand Feature Points Detection Methods," in *Technological Innovation for Collective Awareness Systems*. Springer, Berlin, Heidelberg, hal. 167–174. doi: 10.1007/978-3-642-54734-8_19.

Grzejszczak, T., Kawulok, M. dan Galuszka, A. (2016) "Hand landmarks detection and localization in color images," *Multimedia Tools and Applications*, 75(23), hal. 16363–16387. doi: 10.1007/s11042-015-2934-5.

Grzejszczak, T., Nalepa, J. dan Kawulok, M. (2013) "Real-Time Wrist Localization in Hand Silhouettes," in *Proceedings of the 8th International Conference on Computer Recognition Systems CORES 2013*. Springer International Publishing, hal. 439–449. doi: 10.1007/978-3-319-00969-8.

Hagara, M. dan Pucik, J. (2013) "Fingertip detection for virtual keyboard based on camera," *Proceedings of 23rd International Conference, RADIOELEKTRONIKA 2013*, hal. 356–360. doi: 10.1109/RadioElek.2013.6530945.

Hasan, M. M. dan Mishra, P. K. (2011) "Performance Evaluation of Modified Segmentation on Multi Block For Gesture Recognition System," *International Journal of Signal Processing, Image Processing and Pattern Recognition*, 4(4), hal. 17–28.

Hasan, M. M. dan Mishra, P. K. (2012) "Novel algorithm for multi hand detection and geometric features extraction and recognition," *International Journal of Scientific & Engineering Research*, 3(5).

Hasan, M. M. dan Mishra, P. K. (tanpa tanggal) "HSV brightness factor matching for gesture recognition system," *International Journal of Image Processing (IJIP)*, 4(5), hal. 456.

Hasan, M. M. dan Misra, P. K. (2011) "Gesture Recognition Using Modified HSV Segmentation," in *2011 International Conference on Communication Systems and Network Technologies (CSNT)*, hal. 328–332. doi: 10.1109/CSNT.2011.75.

Hasan dan Mishra, P. K. (2012a) "Hand gesture modeling and recognition using geometric features: a review," *Canadian Journal on Image Processing and Computer Vision*, 3(1), hal. 12–26. Tersedia pada: http://www.ampublisher.com/Mar 2012/IPCV-1203-015-Hand-Gesture-Modeling-Recognition-Geometric-Features-Review.pdf (Diakses: 19 Maret 2015).

Hasan dan Mishra, P. K. (2012b) "Novel algorithm for multi hand detection and geometric features extraction and recognition," *International Journal of Scientific & Engineering Research*, 3(5), hal. 1–12.

Ibraheem, N. A. (2016) "Finger Identification and Gesture Recognition Using Gaussian Classifier Model," *International Journal of Applied Engineering Research*, 11(10), hal. 6924–6931.

Infantino, I., Chella, A., Dzindo, H. dan Macaluso, I. (2003) "Visual control of a robotic hand," in *Proceedings 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2003) (Cat. No.03CH37453)*. IEEE, hal. 1266–1271. doi: 10.1109/IROS.2003.1248819.

Itkarkar, R. R., Nandi, A. dan Mane, B. (2017) "Contour-Based Real-Time Hand Gesture Recognition for Indian Sign Language," in, hal. 683–691. doi: 10.1007/978-981-10-3874-7_65.

Kang, S. K., Nam, M. Y. dan Rhee, P. K. (2008) "Color based hand and finger detection technology for user interaction," in *Convergence and Hybrid Information Technology, 2008. ICHIT'08. International Conference on*. IEEE, hal. 229–236.

Kato, H. dan Kato, T. (2011) "A marker-less Augmented Reality based on fast fingertip detection for smart phones," in *2011 IEEE International Conference on Consumer Electronics (ICCE)*. IEEE, hal. 127–128. doi: 10.1109/ICCE.2011.5722498.

Kerdvibulvech, C. (2014) "A methodology for hand and finger motion analysis using adaptive probabilistic models," *EURASIP Journal on Embedded Systems*, 2014(1), hal. 18. doi: 10.1186/s13639-014-0018-7.

Khan, R. Z. dan Ibraheem, N. A. (2012) "Comparative study of hand gesture recognition system," in *Proc. of International Conference of Advanced Computer Science & Information Technology in Computer Science & Information Technology (CS & IT)*. Citeseer, hal. 203–213.

Lamberti, L. dan Camastra, F. (2011) "Real-time hand gesture recognition using a color glove," in *Image Analysis and Processing–ICIAP 2011*. Springer, hal. 365–373.

LaViola, J. (1999) "A survey of hand posture and gesture recognition techniques and technology," *Brown University, Providence, RI*.

Liang, H., Yuan, J. dan Thalmann, D. (2012) "3D fingertip and palm tracking in depth image sequences," in *Proceedings of the 20th ACM international conference on Multimedia - MM '12*. New York, New York, USA: ACM Press, hal. 785. doi: 10.1145/2393347.2396312.

Liao, Y., Zhou, Y., Zhou, H. dan Liang, Z. (2012) "Fingertips Detection Algorithm Based on Skin Colour Filtering and Distance Transformation," in *2012 12th International Conference on Quality Software (QSIC)*, hal. 276–281. doi: 10.1109/QSIC.2012.62.

Licsár, A. dan Szirányi, T. (2004) "Hand Gesture Recognition in Camera-Projector System," in Sebe, N., Lew, M., dan Huang, T. S. (ed.) *Computer Vision in Human-Computer Interaction: ECCV 2004 Workshop on HCI, Prague, Czech Republic, May 16, 2004. Proceedings*. Berlin, Heidelberg: Springer Berlin Heidelberg, hal. 83–93. doi: 10.1007/978-3-540-24837-8_9.

M. Hasan, M. (2016) "Hand Gesture Recognition Using Statistical and Artificial Geometric Methods : A Survey," *Computer Applications: An International Journal*, 3(3), hal. 01–08. doi: 10.5121/caij.2016.3301.

Mackie, J. dan McCane, B. (2004) "Finger detection with decision trees," *Image and Vision Computing, IVCNZ*.

Mao, G.-Z., Wu, Y.-L., Hor, M.-K. dan Tang, C.-Y. (2009) "Real-Time Hand Detection and Tracking against Complex Background," in *2009 Fifth International Conference on Intelligent Information Hiding and Multimedia Signal Processing*. IEEE, hal. 905–908. doi: 10.1109/IIH-MSP.2009.133.

Medjram, S., Babahenini, M. C., Taleb-Ahmed, A. dan Mohamed Ben Ali, Y. (2017a) "Automatic Hand Detection in Color Images based on skin region verification," *Multimedia Tools and Applications*. doi: 10.1007/s11042-017-4995-0.

Medjram, S., Babahenini, M. C., Taleb-Ahmed, A. dan Mohamed Ben Ali, Y. (2017b) "Real-time wrist localization in color images based on corner analysis," *Multimedia Tools and Applications*. Springer US, 76(14), hal. 15297–15324. doi: 10.1007/s11042-016-3820-5.

Medjram, S., Babahenini, M. C., Yamina, M. B. A. dan Taleb-Ahmed, A. (2016) "Improving the Method of Wrist Localization Local Minimum-Based for Hand Detection," in Chikhi, S. dkk (ed.) *Modelling and Implementation of Complex Systems: Proceedings of the 4th International Symposium, MISC 2016, Constantine, Algeria, May 7-8, 2016, Constantine, Algeria*. Cham:

Springer International Publishing, hal. 153–163. doi: 10.1007/978-3-319-33410-3_11.

Mittal, A., Zisserman, A. dan Torr, P. (2011) "Hand detection using multiple proposals," in *Procedings of the British Machine Vision Conference 2011*. British Machine Vision Association, hal. 75.1-75.11. doi: 10.5244/C.25.75.

Moeslund, T. B., Krüger, V., Hilton, A. dan Krüger, V. (2006) "A survey of advances in vision-based human motion capture and analysis," *Computer Vision and Image Understanding*, 104(2–3), hal. 90–126. doi: http://dx.doi.org/10.1016/j.cviu.2006.08.002.

Murthy, G. R. S. dan Jadon, R. S. (2009) "A review of vision based hand gestures recognition," *International Journal of Information Technology and Knowledge Management*, 2(2), hal. 405–410.

Nagarajan, S., Subashini, T. S. dan Ramalingam, V. (2012) "Vision Based Real Time Finger Counter for Hand Gesture Recognition," *International Journal of Technology*, 2(2).

Nalepa, J., Grzejszczak, T. dan Kawulok, M. (2014) "Wrist Localization in Color Images for Hand Gesture Recognition," in Gruca, D. A., Czachórski, T., dan Kozielski, S. (ed.) *Man-Machine Interactions 3*. Cham: Springer International Publishing, hal. 79–86. doi: 10.1007/978-3-319-02309-0_8.

Nalepa, J. dan Kawulok, M. (2014) "Fast and Accurate Hand Shape Classification," in Kozielski, S. dkk (ed.) *Beyond Databases, Architectures, and Structures*. Springer (Communications in Computer and Information Science), hal. 364–373. doi: 10.1007/978-3-319-06932-6_35.

Nayakwadi, V. dan Pokale, N. B. (2014) "Natural Hand Gestures Recognition System for Intelligent HCI: A Survey," *International Journal of Computer Applications Technology and Research*, 3(1), hal. 10–19.

Nguyen, L. T. *dkk* (2013) "Contour Based Hand Gesture Recognition Using Depth Data," in *Interdisciplinary Research Theory and Technology*. Science & Engineering Research Support soCiety, hal. 60–65. doi: 10.14257/astl.2013.29.12.

Nölker, C. dan Ritter, H. (1998) "Detection of fingertips in human hand movement sequences," in *Gesture and Sign Language in Human-Computer Interaction*. Springer, hal. 209–218. Tersedia pada: http://imtop.googlecode.com/svn/trunk/MasterThesis_SVN/Related work/Detection of Fingertips in Human Hand Movement Sequence.pdf (Diakses: 11 Agustus 2014).

Noreen, U., Jamil, M. dan Ahmad, N. (2015) "Hand Detection Using HSV Model," *Hand*. Citeseer, 6(12).

Oka, K., Sato, Y. dan Koike, H. (2002a) "Real-time fingertip tracking and gesture recognition," *IEEE Computer Graphics and Applications*, 22(6), hal. 64–71. doi: 10.1109/MCG.2002.1046630.

Oka, K., Sato, Y. dan Koike, H. (2002b) "Real-time tracking of multiple fingertips and gesture recognition for augmented desk interface systems," in *Proceedings of Fifth IEEE International Conference on Automatic Face Gesture Recognition*. IEEE, hal. 429–434. doi: 10.1109/AFGR.2002.1004191.

Padam Priyal, S., Bora, P. K., Priyal, S. P. dan Bora, P. K. (2013) "A robust static hand gesture recognition system using geometry based normalizations and Krawtchouk moments," *Pattern Recognition*. Elsevier, 46(8), hal. 2202–2219. doi: 10.1016/j.patcog.2013.01.033.

Panwar, M. (2012) "Hand gesture recognition based on shape parameters," in *2012 International Conference on Computing, Communication and Applications*. IEEE, hal. 1–6. doi: 10.1109/ICCCA.2012.6179213.

Paulson, B., Cummings, D. dan Hammond, T. (2011) "Object interaction detection using hand posture cues in an office setting," *International Journal of Human-Computer Studies*, 69(1–2), hal. 19–29. doi: 10.1016/j.ijhcs.2010.09.003.

Premaratne, P., Yang, S., Vial, P. dan Ifthikar, Z. (2017) "Centroid tracking based dynamic hand gesture recognition using discrete Hidden Markov Models," *Neurocomputing*, 228(Supplement C), hal. 79–83. doi: https://doi.org/10.1016/j.neucom.2016.06.075.

Priyal, S. P. dan Bora, P. K. (2010) "A study on static hand gesture recognition using moments," in *2010 International Conference on Signal Processing and Communications (SPCOM)*. IEEE, hal. 1–5. doi: 10.1109/SPCOM.2010.5560535.

Raheja, J. L., Das, K. dan Chaudhary, A. (2011) "An efficient real time method of fingertip detection," *arXiv preprint arXiv:1108.0502*.

Rautaray, S. S. dan Agrawal, A. (2015) "Vision based hand gesture recognition for human computer interaction: a survey," *Artificial Intelligence Review*, 43(1), hal. 1–54. doi: 10.1007/s10462-012-9356-9.

Ravikiran, J. *dkk* (2009) "Finger detection for sign language recognition," in *Proceedings of the International MultiConference of Engineers and Computer Scientists*, hal. 18–20.

Ren, Z., Yuan, J., Meng, J. dan Zhang, Z. (2013) "Robust part-based hand gesture recognition using kinect sensor," *IEEE Transactions on Multimedia*, 15(5), hal. 1110–1120. doi: 10.1109/TMM.2013.2246148.

Ross, A. dan Jain, A. K. (1999) "A prototype hand geometry-based verification system," in *Proceedings of 2nd Conference on Audio and Video Based Biometric Person Authentication*, hal. 166–171.

Samantaray, A., Nayak, S. K. dan Mishra, A. K. (2013) "Hand Gesture Recognition using Computer Vision."

Sato, Y., Kobayashi, Y. dan Koike, H. (2000) "Fast tracking of hands and fingertips in infrared images for augmented desk interface," in *Fourth IEEE International Conference on Automatic Face and Gesture Recognition, 2000. Proceedings*, hal. 462–467. doi: 10.1109/AFGR.2000.840675.

Shaker, N. dan Abou Zliekha, M. (2007) "Real-time finger tracking for interaction," in *Image and Signal Processing and Analysis, 2007. ISPA 2007. 5th International Symposium on*. IEEE, hal. 141–145.

Shimada, A., Yamashita, T. dan Taniguchi, R. (2013) "Hand gesture based TV control system — Towards both user- & machine-friendly gesture applications," in *The 19th Korea-Japan Joint Workshop on Frontiers of Computer Vision*. IEEE, hal. 121–126. doi: 10.1109/FCV.2013.6485473.

Song, Z., Yang, H., Zhao, Y. dan Zheng, F. (2010) "Hand Detection and Gesture Recognition Exploit Motion Times Image in Complicate Scenarios," in, hal. 628–636. doi: 10.1007/978-3-642-17274-8_61.

Stergiopoulou, E. dan Papamarkos, N. (2009) "Hand gesture recognition using a neural network shape fitting technique," *Engineering Applications of Artificial Intelligence*. Elsevier, 22(8), hal. 1141–1158. doi: https://doi.org/10.1016/j.engappai.2009.03.008.

Su, M.-C. (2000) "A fuzzy rule-based approach to spatio-temporal hand gesture recognition," *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews*, 30(2), hal. 276–281. doi: 10.1109/5326.868448.

Sunyoto, A., Harjoko, A., Wardoyo, R. dan Hariadi, M. (2018) "Wrist detection based on a minimum bounding box and geometric features," *Journal of King Saud University - Computer and Information Sciences*, hal. doi: 10.1016/j.jksuci.2018.05.005.

Tanibata, N., Shimada, N. dan Shirai, Y. (2002) "Extraction of hand features for recognition of sign language words," in *International conference on vision interface*, hal. 391–398.

Thuy Thi Nguyen, Nguyen Dang Binh dan Bischof, H. (2008) "An active boosting-based learning framework for real-time hand detection," in *2008 8th IEEE International Conference on Automatic Face & Gesture Recognition*. IEEE, hal. 1–6. doi: 10.1109/AFGR.2008.4813315.

Toussaint, G. T. (1983) "Solving geometric problems with the rotating calipers," in *Proc. IEEE Melecon*, hal. A10.

Wang, R. Y. dan Popović, J. (2009) "Real-time hand-tracking with a color glove," *ACM Transactions on Graphics*, 28(3), hal. 1. doi: 10.1145/1531326.1531369.

Wu, C.-H. dan Lin, C. H. (2013) "Depth-based hand gesture recognition for home appliance control," in *2013 IEEE International Symposium on Consumer Electronics (ISCE)*. IEEE, hal. 279–280. doi: 10.1109/ISCE.2013.6570227.

Xiao, B., Xu, X. dan Mai, Q. (2010) "Real-Time Hand Detection and Tracking Using LBP Features," in, hal. 282–289. doi: 10.1007/978-3-642-17313-4_28.

Xu, Y., Gu, J., Tao, Z. dan Wu, D. (2009) "Bare Hand Gesture Recognition with a Single Color Camera," in *2nd International Congress on Image and Signal Processing, 2009. CISP '09*, hal. 1–4. doi: 10.1109/CISP.2009.5305317.

Yang, D.-D., Jin, L.-W. dan Yin, J.-X. (2005) "An effective robust fingertip detection method for finger writing character recognition system," in *Machine Learning and Cybernetics, 2005. Proceedings of 2005 International Conference on*. IEEE, hal. 4991–4996.

Yeo, H.-S., Lee, B.-G. dan Lim, H. (2015) "Hand tracking and gesture recognition system for human-computer interaction using low-cost hardware," *Multimedia Tools and Applications*, 74(8), hal. 2687–2715. doi: 10.1007/s11042-013-1501-1.

Yi Li (2012) "Hand gesture recognition using Kinect," in *2012 IEEE International Conference on Computer Science and Automation Engineering*. IEEE, hal. 196–199. doi: 10.1109/ICSESS.2012.6269439.

Youssef, M. M. (2011) *Hull convexity defect features for human action recognition*. University of Dayton.

Zhang, Z., Conly, C. dan Athitsos, V. (2014) "Hand Detection on Sign Language Videos," in *Proceedings of the 7th International Conference on PErvasive Technologies Related to Assistive Environments*. New York, NY, USA: ACM (PETRA '14), hal. 26:1–26:5. doi: 10.1145/2674396.2674442.