



DAFTAR PUSTAKA

- Adipranata, R., Ballangan, C. G., dan Ongkodjojo, R. P., (2009), Fast Method for Multiple Human Face Segmentation in Color Image. *International Journal of Advanced Science and Technology*, 3, 19–32.
- Aggarwal, A., Chauhan, R. S., dan Kaur,K., 2013, An Adaptive Image Enhancement Technique Preserving Brightness Level Using Gamma Correction., *Advance in Electronic and Electric Engineering*, 3(9), 1–12.
- Agushinta, Dewi, R., Suhendra, A., dan Hendra., 2007, Ekstraksi Fitur Dan Segmentasi Wajah Sebagai Semantik Pada Sistem Pengenalan Wajah. In *National Conference on Computer Science & Information Technology VII*, Surabaya, 1-5.
- Agushinta,D, Suhendra, A., Madenda,S.,dan Suryadi,H.,S.,2010, Face Component Extraction Using Segmentation Method on Face Recognition System. *Journal Of Emerging Trends in Computing and Information Sciences*, 2(2), 67–72.
- Agushinta.,D., Karmilasari, dan Eko., S., 2008, Klasifikasi Kelompok Usia Berdasarkan Ciri Wajah, In *Proceeding Seminar Ilmiah Nasional Komputer dan Sistem Intelejen* , 20-21 Agustus, Depok Jakarta, 336-344.
- Alberto, J., Basilio, M., Torres, G. A., Pérez, S., Medina, L. K. T., dan Meana, H. M. P., 2011, Explicit Image Detection using YCbCr Space Color Model as Skin Detection 2 Color Spaces. *Aplication of Mathematics and Computer Engineering*, 123–128.
- Allan, P., dan Barbara, P. , 2004, *Body Language- How to Read Others' Thoughts by Their Gestures*, Pease International, Buderim,Australia.
- Asha, M., dan Jemimah, S., 2014, Color Sensitive Adaptive Gamma Correction for Image Color and Contrast Enhancement. *IJERA*, 61 –66.
- Atharifard, A., dan Gohfrani, S., 2011, Component Based Face Detection in Color Images, *World Applied Sciences Journal*, 13(4), 847–857.
- Bao, P., dan Nhan, H. N. D., 2009, A New Approach to Mouth Detection Using Neural Network. In *International Conference on Control Automation and Systems Engineering* , 616–619.
- Bhatt, B. G., dan Shah, Z. H., 2011,. Face Feature Extraction Techniques : A



- Survey. In *National Conference on Recent Trends in Engineering & Technology*, 13-14 Mei, Gujarat India, 2-5.
- Boucsein W. (1992). *Electrodermal Activity*, 1992, Springer, New York.
- Boulogne, D. D., 1990, *The Mechanism of Human Facial Expression*, Cambridge University Press, New York.
- Bull, R., Baron, H., Gudjonsson, G., Hampson, S., Rippon, G., dan Vrij, A. (2004). *A review of the current scientific status and fields of application of polygraphic deception detection. Final Report for The BPS Working Party*. London.
- Cacioppo, J., Tassinary, L. G., dan Berntson, G. G., 2007, *The Handbook of Psychophysiology*, Cambridge University Press, London.
- Caldwell-Harris, C. L., dan Ayçiçeği-Dinn, A., 2009, Emotion and lying in a non-native language. *International Journal of Psychophysiology*, 71(3), 193–204.
- Carson., Thomas., L. ,2010, *Lying and Deception Theory and Practise* (1st ed.). New York: Oxford University Press.
- Cerez, S. V, Prof, A., dan Samaniego, J. , 2007, Facial Feature Detection using a Geometric Face Model. In *ICS*., Los Banos Philippines.
- Chai, D., dan Ngan, K. N., 1999, Face segmentation using skin-color map in videophone applications. *IEEE Transactions on Circuits and Systems for Video Technology*, 9(4), 551–564.
- Chen, S., dan Liu, C. (2011). Fast Eye Detection Using Different Color Spaces. In *Systems, Man, and Cybernetics (SMC)*, Alaska USA: IEEE, 521-526.
- Chung, C., dan Pennebaker, J., 2007, *The Psychological Functions of Function Words*, Psychology Press, New York.
- Cooray,S., dan O'Connor, N., 2004, Facial feature extraction and principal component analysis for face detection in color images. In *ICIPAR* , 29 september- 1 oktober, Porto Portugal, 741-749.
- Damphousse, K. R., Pointon, L., Upchurch, D., dan Moore, R. K. , 2007, *Tools in a Jail Setting Assessing the Validity of Voice Stress Analysis Tools in a Jail Setting*, Project Grand Departement of Justice, Washington.
- Das, A., dan Ghoshal, D., 2012, Human Eye Detection of Color Images Based on Morphological Segmentation using Modified Harris Comer Detector. In



ICETEEEM , 13-15 Desember, Tamil Nadu India, 143–147 .

Delac, K., dan Grgic, M., 2007, Face Recognition, I-Tech Education and Publishing , Viena, Austria:.

Denault, V., dan David, M., 2014, The Eyes Don't Always Give aLiar. *The Lawyer Weekly*.

Depaulo, B. M., Lindsay, J. J., Malone, B. E., Muhlenbruck, L., dan Charlton, K. ,2003, Cues to Deception. *Pyschological Bulletin*, 129(1), 74–118.

DeVito, J., Meurer, A., dan Volz, D., 2012, *Smile Identication via Feature Recognition and Corner Detection.*, Houston, Texas.

Edelberg, R. , 1971, *Electrical Properties of Skin*, John Wiley and Sons, New York.

Ekman, P., O'Sullivan, M., and Scherer, K., 1991, Facial expression: Methods, means, and moues. *Fundamentals of Nonverbal Behavior*, Cambridge University Press, New York.

Feris, R. S., Campos, T., dan Junior, R., 2000, Detection and Tracking of Facial Features in Video Sequences. In *MICAI* , 11-14 April, Acapulco Mexico, 197-206.

Fuchs, T., 2004, Neurobiology and psychotherapy. *Curr Opin Psychiatry*, 50(4), 406–429.

Funabiki, N., dan Isogai, M. , 2006, Deformable Template Matching Eye Contour Extraction Algo-. *Memoirs of Faculty of Engineering ,Okayama University*, 40, 78–82.

Gunadi, I. G. A., dan Harjoko, A. ,2012, Telaah Metode-metode Pendekripsi Kebohongan. *IJCCS*, 6(2), 35–46.

Gunadi, I. G. A., dan Harjoko, A., 2013, Pengenalan Pola Gerak Mulut Dengan Menggunakan Pendekatan SOM (Self Organizing Feature Map). In *Prosiding Seminar Nasional Pendidikan Teknik Informatika 2013*, 9 September, Singaraja, 70-75.

Gunadi, I. G. A., Harjoko, A., Retantyo, W., dan Ramdhani, N. (2015)., Fake Smile Detection Based on Linear Support Vector Machine, In *ICODSE*, 25-26 November, Yogyakarta.

Gunadi, I. G. A., Harjoko, A., Wardoyo, R., dan Ramdhani, N., 2015, The



Extraction And The Recognition of Facial Feature State to Emotion Recognition, *Journal of Theoretical and Applied Information Technology*, 82(1), 113–121.

Gunadi, I. G. A., dan Hartati, S., 2013, Manual Assessment Derajat Kebohongan Pada Adegan Video Berdasarkan Naïve Bayesian. In *SNATI* ,14 Juni ,Yogyakarta, 41-15.

Hendra, S., 2010, Tinjauan Hukum Mengenai Penggunaan Alat Deteksi Kebohongan Pada Proses Pengadilan Pidana Dihubungkan Dengan Undang Undang No 8 Tahun 1981 Tentang Hukum Acara Pidana Juncto Undang Undang No 11 Tentang Informasi dan Transaksi Elektronik, *Skripsi*, Jurusan Ilmu Hukum Fak Hukum Universitas Komputer Indonesia.

Herawati, H. (2012). *Penentuan Indeks Kepala dan Wajah Orang Indonesia Asli Berdasarkan Suku di Medan*. Thesis, Fakultas Kedokteran, Universitas Sumatera Utara.

Hopkins, C. S., Ratley, R. J., Benincasa, D. S., dan Grieco, J. J, 2005, Evaluation of Voice Stress Analysis Technology. In *HICSS* , 6 Januari, Hawai.

Horng, W. B., Lee, C. P., dan Chen, C. W., 2001, Classification of age groups based on facial features. *Tamkang Journal of Science and Engineering*, 4(3), 183–192.

Hsu, Rein, L., Mottaleb, Mohamed, A., dan Jain, Anil, K., 2002, Face Detection in Color Images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 24(5), 696–706.

Huang, D., Lin, T., dan Chen, M., 2011, Eye Detection Based on Skin Color Analysis with Different Poses under Varying Illumination Environment. In *Fifth International Conference on Genetic and Evolutionary Computing* ,29 Agustus - 1 September, Kitakyushu, Japan, 252-255.

Huang, Y. H., dan Fuh,C. S., 2003, Face Detection and Smile Detection. In *Proceedings of IPPR Conference on Computer Vision, Graphics and Image Porcessing* , 10-11 Oktober, Taiwan.

Kalbkhani., H., dan Amirani, Mehdi., C., 2012, An efficient algorithm for face detection in color images. *Journal of World's Electrical Engineering and Technology*, 1(1), 12–16.



- Kamath, V., Ramaswamy, N., Navin Karanth, P., Desai, V., dan Kulkarni, S. M. (2011). Development of an automated handwriting analysis system. *Journal of Engineering and Applied Sciences*, 6(9), 135–140.
- Karpouzis, K., Votsis, G., Moschovitis, G., dan Kollias, S., 1999, Emotion Recognition Using Feature Extraction and 3-D Models. In *International Conference Circuit Systems Computer Communication*, 31 Januari, Athena, 371–376.
- Kaur, A., dan Kranthi, B. V., 2012, Comparison between YCbCr Color Space and CIELab Color Space for Skin Color Segmentation. *International Journal of Applied Information Systems (IJ AIS)*, 3(4), 30–33.
- Khan, I., Abdullah, H., Shamian, M., dan Zainal, B., 2013, Efficient Eyes And Mouth Detection Algorithm Using Combination Of Viola Jones And Skin Color Pixel Detection. *International Journal of Engineering and Applied Sciences*, 3(4), 51–60.
- Kholistianingsih, Hidayat, R., dan Soesanti, I., 2012, Ekstraksi Ciri Pengenalan Wajah Menggunakan Fitur Geometris. In *Eeccis2012* , 30-31 Januari, Malang.
- Kovae, J., Peer, P., dan Solina, F., 2003, Human Skin Colour Clustering for Face Detection. In *EUROCON* , 22-24 Desember, Ljubljana, Slovenia, 144-148.
- Lazarus, M. Z., Srilakshmi, K., dan Sandeep, V. M., 2013, Age Classification : Based on Wrinkle Analysis. *International Journal on Recent and Innovation Trends in Computing and Communication*, 1(3), 119–124.
- Leal, S., dan Vrij, A., 2008, Blinking during and after lying. *Journal of Nonverbal Behavior*, 32(4), 187–194.
- Leigh, N. K., 2000, *Who Needs Cheeks ? Intel Science Talent Search*. New York.
- Liu, H., Wu, Y., dan Zha, H. 2012, Eye states detection from color facial image sequence, In *Second International Conference on Image and Graphics*. 12-15 Agustus, Hefei, China.
- Liu, X., Tan, X., dan Chen, S.,2012, Eyes closeness detection using appearance based methods, *Advances in Information and Communication Technology*, 385 AICT, 398–408.
- Lykken, D. T., 2011, Detecting deception. *Society*, 22(6), 34–39.



- Ma, Z., dan Leijon, A., 2010,. Human skin color detection in RGB space with Bayesian estimation of beta mixture models. *European Signal Processing Conference*, 23-27 Agustus, Aalborg Denmark, 1204–1208.
- Mann, S., dan Hillman, J.,2014, *Detection of Concealment in an Information-Gathering Interview*, Portsmouth.
- Mann, S., Vrij, A., dan Bull, R. ,2002, Suspects, lies, and videotape: An analysis of authentic high-stake liars. *Law and Human Behavior*, 26(3), 365–376.
- Marchak, F. M., 2013, Detecting false intent using eye blink measures. *Journal of Frontiers in Psychology*, 4(October), 736–745.
- Marius,D., Pennathur,S., dan Rose,K., 2003, Face detection using color thresholding, and eigenimage template matching, *Digital Image Processing Project*, 1–17.
- Matsumoto, D., dan Ekman, P., 2008, Facial Expression Analysis Emotion Signaling. *Scholarpedia*, 3(5), 1–11.
- Matsumoto, D., Hwang, H., S., Skinner, L., dan Frank, M., G., 2011, Detecting deception, *Journal of Society*, 22(6), 34–39.
- Mahribian, A. (1972). *Non Verbal Communication*. Los Angles: Aldine Atherton.
- Nasiri, J. A., Khanchi, S., & Pourreza, H. R.,2007, Eye Detection in Color Images. In *MVIP* , 10-11 April, Taheran.
- Nasiri, J. A., Yazdi, H. S., dan Naghibzadeh, M., 2009,A Mouth Detection Approach Based on PSO Rule Mining on Color Images. In *5 th Iranian Conference on Machine Vision and Image Processing* , Taheran.
- Navaro, J., dan Karlins, M. , 2007, What Every Body is Saying. London: Harver Colins e Book, London.
- Newman, M. L., Pennebaker, J. W., Berry, D. S., dan Richards, J. M. , 2003, Lying words: predicting deception from linguistic cues, *Journal of Personality and Social Psychology Bulletin*, 29(5), 665–675.
- Nikolaidis, A., dan Pitas, I., 2000, Facial feature extraction and pose determination. *Journal of Pattern Recognition*, 33(11), 1783–1791.
- Oravec, M., Kristof, B., Kolarik, M., dan Pavlovicova, J.,2008, Extraction of Facial Features from Color Images, *Journal RadioEngineering*, 17(3), 115–120.



- Pantic, M., dan Rothkrantz, L. J. M., 2000, Expert system for automatic analysis of facial expressions. *Journal of Image and Vision Computing*, 18(11), 881–905.
- Pardas, M., dan Bonafonte,A., 2002, Facial animation parameters extraction and expression recognition using Hidden Markov Models, *Signal Processing: Image Communication*, 17, 675–688.
- Pavlidis, I., dan Levine, J., 2002, Thermal image analysis for polygraph testing. *IEEE Engineering in Medicine and Biology Magazine*, 21(6), 56–64.
- Pavlidis, I., Levine, J., dan Baukol, P., 2000, Thermal imaging for anxiety detection. *Proceedings IEEE Workshop on Computer Vision Beyond the Visible Spectrum: Methods and Applications*, 10–16.
- Pfister, T., Li, X., Zhao, G., dan Pietik, M .,2011, Recognising Spontaneous Facial Micro-expressions. In *International Confrence Computer Vision*,6 November,Barcelona Spanyol, 101–108.
- Polikovsky, S., Kameda, Y., dan Ohta, Y.,2009, Detection and Measurement of Facial Micro-Expression Characteristics for Psychological Analysis. In *Proceding of The International Confrence 3rd on Imaging for Crimane Detection and Prevention* (pp. 110–116).
- Porter, S., dan Ten Brinke, L .,2008, Reading Between the Lies. *Psychological Science*, 19(5), 508-512.
- Prasad, S., Singh, ipek K., dan Sapre, A.,2010, Handwriting Analysis based on Segmentation Method for Prediction of Human Personality using Support Vector Machine. *International Journal of Computer Applications*, 8(12), 25–29.
- Prasetyo, E.,2012, *Data Mining Konsep dan Aplikasinya Menggunakan Matlab*. Andi, Yogyakarta.
- Ratliff, M. S., dan Patterson, E., 2008, Emotion Recognition using Facial Expressions with Active Appearance Models. *Human Computer Interaction (IASTED-HCI)*, 138–143.
- Rohani, R., Alizadeh, S., Sobhanmanesh, F., dan Boostani, R., 2008, Lip Segmentation in Color Images. In *2008 International Conference on Innovations in Information Technology*, 16 -18 Desember, Uni Emirat Arab, 747–750.



- Rurainsky, J., dan Eisert, P. ,2003, Template-based Eye and Mouth Detection for 3D Video Conferencing. *Proceedings of the International Workshop on Very Low Bitrate Video*, 2-4 Juli , Spanyol, 23 – 31.
- Saini, H. K., dan Chand, O. ,2013, Skin Segmentation Using RGB Color Model and Implementation of Switching Conditions. *IJERA*, 3(1), 1781–1786.
- Santra, A. K., dan Christy, C. J., 2012, Genetic Algorithm and Confusion Matrix for Document Clustering. *International Journal of Computer Science*, 9(1), 322–328.
- Scherer, K. R. (2005a). What are emotions? And how can they be measured? *Social Science Information*, 44(4), 695–729.
- Scherer, K. R. (2005b). What are emotions? And how can they be measured? *Journal Social Science Information*, 44(4), 695–729.
- Senechal, T., Turcot, J., dan El Kaliouby, R., 2013, Smile or smirk? Automatic detection of spontaneous asymmetric smiles to understand viewer experience, *International Conference and Workshops on Automatic Face and Gesture Recognition*,22-26 April, Shanghai.
- Sharma, P., dan Yadav, V., 2013, Discrimination Between Skin and Non- Skin Pixels in Image Using the Range of HSV Color Space. *IJUST*, 4(1), 438–439.
- Shih, Frank, Y., Cheng, S., dan Chuang, Chao, F.,2008, From Color Images. *International Journal of Pattern Recognition*, 22(3), 515–534.
- Shreve, M., Godavarthy, S., Goldgof, D., dan Sarkar, S. , 2011, Macro and micro-expression spotting in long videos using spatio-temporal strain, *International Conference on Automatic Face and Gesture Recognition and Workshops*, 21-25 Maret, Santa Barbara USA,51–56.
- Slavkovic, A., 2002, *Evaluating Polygraph Data*. Tecnical Report 766,. Pittsburgh.
- Sobottka, K., dan Pitas, I., 1996, Extraction of Facial Regions and Features using Color and Shape Information, In *Proceding of 13th International Confrence on Pattern Recognition*, 421– 425.
- Soorjoo, M., 2009, *The Black Book of Lie Detection: Effective Technique from Profesional Lie Detector*, I-Sight London.
- Sugiyono. (2007). *Metode Penelitian Kualitatif Kuantitatif dan R&D* ,Alfabet,



Bandung.

Sujarweni, V, W., 2012, *SPSS Untuk Paramedis*, Gava Media, Yogyakarta.

Sulistijono., Adji., I., Darojah ., Z., Dwijotomo., A., Pramadihanto., D., dan Kubota., N. ,2013, Facial Expression Recognition Using Eigenspaces. *Procedia Technology*, 10, 755–761.

Sulistyo, W., Bech, Y. R., dan Y, F. F.,2009, Analisis Penerapan Metode Median Filter Untuk Mengurangi Noise Pada Citra Digital. In *Konferensi Nasional Sistem dan Informatika* , September, Denpasar Bali, 189-195.

Sutoyo, T., Mulyanto, E., Suhartono, V., Nurhayati, dan Wijanarto. ,2009, *Teori Pengolahan Citra Digital*,Andi, Yogyakarta.

Takita, K., Nagayasu, T., Asano, H., Terabayasi, K., dan Umeda, K., 2012, Mouth Movement Recognition Using Template Matching and its Implementation in an Intelligent Room. *Journal of Robotics and Mechatronics*, 24(2), 1–9.

Tian, Y., Kanade, T., Cohn, J., Tan, T., Shi, Y., dan Gao, W., 2000, Eye-state action unit detection by Gabor wavelets. *Advances in Multimodal Interfaces — ICMI 2000*, 143–150.

Timotius, I. K., dan Setyawan, I. ,2014, Evaluation of Edge Orientation Histograms in Smile Detection. In *International conference on Information Technology and Electritical Engineering (ICITEE)*, 7-8 Oktober, Yogyakarta, 2–6.

Tonovan, M., Hidayatno, A., dan Isnanto, R. R. (2007). Pengenalan Pola Geometri Wajah Menggunakan Jaringan Syaraf Tiruan Perambatan Balik, *Skripsi*, Undip Semarang.

Tsiamyrtzis, P., Dowdall, J., Shastri, D., Pavlidis, I. T., Frank, M. G., dan Ekman, P. (2007). Imaging facial physiology for the detection of deceit. *International Journal of Computer Vision*, 71(2), 197–214.

Turk, M., dan Pentland, A., 1991, Face recognition using eigenfaces. *Computer Vision and Pattern Recognition*,586-591

Vijayalaxmi, dan D, R. E., 2015, Eye State Detection Using Image Processing Technique. *AJAER*, 04(01), 43–48.

Vrij, A., Granhag, P.A., dan Porter, S., 2010, Pitfalls and Opportunities in Nonverbal and Verbal Lie Detection. *Psychological Science in the Public*



Interest, 11(3), 89–121.

- Wang, Q., dan Yang, J., 2006, Eye Location and Eye State Detection in Facial Images with. *Journal of Information and Computing Science*, 1(5), 284–289.
- Wu, Y. W. Y., Liu, H. L. H., dan Zha, H. Z. H., 2004, A new method of detecting human eyelids based on deformable templates. *International Conference on Systems, Man and Cybernetics*, 1, 1–4.
- Yagain, V. K., Pai, S. R., Kalthur, S. G., Chethan, P., dan Hemalatha, I., 2012, Study of Cephalic Index in Indian Students. *International Journal of Morphology*, 30(1), 125–129.
- Yang, M., 2009, Face Detection. *Encyclopedia of Biometrics*, 303–308.
- Yang, M.-H., Kriegman, D. J., dan Ahuja, N., 2002, Detecting Faces In Image : A Survey. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 24(1), 34–58.
- Zayuman,H., Santosa,I., dan Isnanto,R.R., 2008, Pengenalan Wajah Manusia Menggunakan PCA dan JST Back Propagation, *Seminar Tugas Akhir*, Undip Semarang