

## DAFTAR PUSTAKA

- [1] A. E. Minarno, Y. Munarko, A. Kurniawardhani, F. Bimantoro, and N. Suciati, "Texture feature extraction using co-occurrence matrices of sub-band image for batik image classification," in *2014 2nd international conference on information and communication technology (ICoICT)*. IEEE, 2014, pp. 249–254.
- [2] A. E. Minarno, M. C. Mustaqim, Y. Azhar, W. A. Kusuma, and Y. Munarko, "Deep convolutional generative adversarial network application in batik pattern generator," in *2021 9th International Conference on Information and Communication Technology (ICoICT)*. IEEE, 2021, pp. 54–59.
- [3] A. E. Minarno, M. H. C. Mandiri, Y. Munarko, and H. Hariyady, "Convolutional neural network with hyperparameter tuning for brain tumor classification," *Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control*, 2021.
- [4] A. E. Minarno, M. R. Alfarizy, A. Hendryawan, S. Syaifuddin, and Y. Munarko, "Pneumonia classification using gabor-convolutional neural networks and image enhancement," in *2021 9th International Conference on Information and Communication Technology (ICoICT)*. IEEE, 2021, pp. 180–185.
- [5] H. Wibowo, W. Suharso, Y. Azhar, G. W. Wicaksono, A. E. Minarno, and D. Harmanto, "Music information retrieval based on active frequency," *Makara Journal of Technology*, vol. 25, no. 2, p. 5, 2021.
- [6] G.-H. Liu, L. Zhang, Y.-K. Hou, Z.-Y. Li, and J.-Y. Yang, "Image retrieval based on multi-texton histogram," *Pattern Recognition*, vol. 43, no. 7, pp. 2380–2389, 2010.
- [7] A. Pawar, "Evaluation of autoencoder for cbir system in deep learning," in *2020 IEEE 17th India Council International Conference (INDICON)*. IEEE, 2020, pp. 1–4.
- [8] F. Bimantoro, A. A. Aziz, A. Y. Husodo, A. Musnansyah, A. E. Minarno, and A. Kurniawardhani, "Image retrieval using modified multi texton and rotation invariant local binary pattern," in *2020 International Conference on Advancement in Data Science, E-learning and Information Systems (ICADEIS)*. IEEE, 2020, pp. 1–5.
- [9] A. E. Minarno, K. M. Ghufron, T. S. Sabrila, L. Husniah, and F. D. S. Sumadi, "Cnn based autoencoder application in breast cancer image retrieval," in *2021 International Seminar on Intelligent Technology and Its Applications (ISITIA)*. IEEE, 2021, pp. 29–34.
- [10] A. E. Minarno, F. D. S. Sumadi, Y. Munarko, W. Y. Alviansyah, and Y. Azhar, "Image retrieval using multi texton co-occurrence descriptor and discrete wavelet transform," in *2020 8th International Conference on Information and Communication Technology (ICoICT)*. IEEE, 2020, pp. 1–5.
- [11] A. E. Minarno, Y. Munarko, A. Kurniawardhani, and F. Bimantoro, "Classification of texture using multi texton histogram and probabilistic neural network," in *IOP Conference Series: Materials Science and Engineering*, vol. 105, no. 1. IOP Publishing, 2016, p. 012022.

- [12] A. E. Minarno, A. S. Maulani, A. Kurniawardhani, F. Bimantoro, and N. Suciati, "Comparison of methods for batik classification using multi texton histogram," *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 16, no. 3, pp. 1358–1366, 2018.
- [13] A. E. Minarno, Y. Azhar, F. D. S. Sumadi, and Y. Munarko, "A robust batik image classification using multi texton co-occurrence descriptor and support vector machine," in *2020 3rd International Conference on Intelligent Autonomous Systems (ICoIAS)*. IEEE, 2020, pp. 51–55.
- [14] A. E. Minarno, F. D. S. Sumadi, H. Wibowo, and Y. Munarko, "Classification of batik patterns using k-nearest neighbor and support vector machine," *Bulletin of Electrical Engineering and Informatics*, vol. 9, no. 3, pp. 1260–1267, 2020.
- [15] A. H. Rangkuti, A. Harjoko, and A. Putra, "A novel reliable approach for image batik classification that invariant with scale and rotation using mu2ecs-lbp algorithm," *Procedia Computer Science*, vol. 179, pp. 863–870, 2021.
- [16] A. H. Rangkuti, Z. E. Rasjid, and D. J. Santoso, "Batik image classification using treeval and treefit as decision tree function in optimizing content based batik image retrieval," *Procedia Computer Science*, vol. 59, pp. 577–583, 2015.
- [17] C. Irawan, A. Winarno, H. Kusumodestoni, A. Sucipto, T. Tamrin, and M. Doheir, "A combination of statistical extraction and texture features based on knn for batik classification," in *2021 International Seminar on Application for Technology of Information and Communication (iSemantic)*. IEEE, 2021, pp. 113–117.
- [18] B. S. Negara, E. Satria, S. Sanjaya, and D. R. D. Santoso, "Resnet-50 for classifying indonesian batik with data augmentation," in *2021 International Congress of Advanced Technology and Engineering (ICOTEN)*. IEEE, 2021, pp. 1–4.
- [19] F. A. Putra, D. A. C. Jamil, B. A. Prabandanu, S. Faruq, F. A. Pradana, R. F. Alya, H. A. Santoso, F. Al Zami, and F. O. Saputra, "Classification of batik authenticity using convolutional neural network algorithm with transfer learning method," in *2021 Sixth International Conference on Informatics and Computing (ICIC)*. IEEE, 2021, pp. 1–6.
- [20] D. Trimakno *et al.*, "Impact of augmentation on batik classification using convolution neural network and k-neareast neighbor," in *2021 4th International Conference on Information and Communications Technology (ICOIACT)*. IEEE, 2021, pp. 285–289.
- [21] Y. Azhar, M. C. Mustaqim, and A. E. Minarno, "Ensemble convolutional neural network for robust batik classification," in *IOP Conference Series: Materials Science and Engineering*, vol. 1077, no. 1. IOP Publishing, 2021, p. 012053.
- [22] A. E. Minarno, A. Kurniawardhani, and F. Bimantoro, "Image retrieval based on multi structure co-occurrence descriptor," *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 14, no. 3, pp. 1175–1182, 2016.

- [23] A. E. Minarno, Y. Munarko, F. Bimantoro, A. Kurniawardhani, and N. Suciati, "Batik image retrieval based on enhanced micro-structure descriptor," in *2014 Asia-Pacific Conference on Computer Aided System Engineering (APCASE)*. IEEE, 2014, pp. 65–70.
- [24] A. Kurniawardhani, A. E. Minarno, and F. Bimantoro, "Efficient texture image retrieval of improved completed robust local binary pattern," in *2016 International Conference on Advanced Computer Science and Information Systems (ICACISIS)*. IEEE, 2016, pp. 492–497.
- [25] A. E. Minarno, Y. Munarko, and A. Kurniawardhani, "Cbir of batik images using micro structure descriptor on android," *International Journal of Electrical and Computer Engineering*, vol. 8, no. 5, p. 3778, 2018.
- [26] H. Prasetyo and B. A. P. Akardihas, "Batik image retrieval using convolutional neural network," *Telkomnika (Telecommunication Computing Electronics and Control)*, vol. 17, no. 6, pp. 3010–3018, 2019.
- [27] B. R. Lidiawaty, M. I. Irawan, and R. V. H. Ginardi, "Image pattern verification based on seller's batik solo product name using surf as a texture based image retrieval," in *2020 International Electronics Symposium (IES)*. IEEE, 2020, pp. 674–679.
- [28] Y. Azhar, A. E. Minarno, Y. Munarko, and Z. Ibrahim, "Image retrieval based on texton frequency-inverse image frequency," *Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control*, pp. 87–94, 2020.
- [29] Y. Azhar, A. E. Minarno, and Y. Munarko, "Re-ranking image retrieval on multi texton co-occurrence descriptor using k-nearest neighbor," *Proceeding of the Electrical Engineering Computer Science and Informatics*, vol. 5, no. 5, pp. 589–593, 2018.
- [30] A. E. Minarno and N. Suciati, "Batik image retrieval based on color difference histogram and gray level co-occurrence matrix," *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 12, no. 3, pp. 597–604, 2014.
- [31] G. Tian, Q. Yuan, T. Hu, and Y. Shi, "Auto-generation system based on fractal geometry for batik pattern design," *Applied Sciences*, vol. 9, no. 11, p. 2383, 2019.
- [32] P. D. Kusuma, "Modified sine wave based model in madurese batik pattern generation," *Journal of Theoretical and Applied Information Technology*, vol. 97, no. 23, pp. 3557–3569, 2019.
- [33] L. A. Gatys, "A neural algorithm of artistic style," *arXiv preprint arXiv:1508.06576*, 2015.
- [34] C. Zhou, Z. Gu, Y. Gao, and J. Wang, "An improved style transfer algorithm using feedforward neural network for real-time image conversion," *Sustainability*, vol. 11, no. 20, p. 5673, 2019.
- [35] Y. A. Irawan and A. Widjaja, "Pembangkitan pola batik dengan menggunakan neural transfer style dengan penggunaan cost warna," *Jurnal Teknik Informatika Dan Sistem Informasi*, vol. 6, no. 2, 2020.

- [36] G. Atarsaikhan, B. K. Iwana, and S. Uchida, “Guided neural style transfer for shape stylization,” *PloS one*, vol. 15, no. 6, p. e0233489, 2020.
- [37] H. Kwon, H. Yoon, and K.-W. Park, “Captcha image generation: two-step style-transfer learning in deep neural networks,” *Sensors*, vol. 20, no. 5, p. 1495, 2020.
- [38] I. Goodfellow, J. Pouget-Abadie, M. Mirza, B. Xu, D. Warde-Farley, S. Ozair, A. Courville, and Y. Bengio, “Generative adversarial networks,” *Communications of the ACM*, vol. 63, no. 11, pp. 139–144, 2020.
- [39] W. Wang, A. Wang, Q. Ai, C. Liu, and J. Liu, “Aagan: enhanced single image dehazing with attention-to-attention generative adversarial network,” *IEEE Access*, vol. 7, pp. 173 485–173 498, 2019.
- [40] O. Kupyn, T. Martyniuk, J. Wu, and Z. Wang, “Deblurgan-v2: Deblurring (orders-of-magnitude) faster and better,” in *Proceedings of the IEEE/CVF international conference on computer vision*, 2019, pp. 8878–8887.
- [41] Z. Yuan, M. Jiang, Y. Wang, B. Wei, Y. Li, P. Wang, W. Menpes-Smith, Z. Niu, and G. Yang, “Sara-gan: Self-attention and relative average discriminator based generative adversarial networks for fast compressed sensing mri reconstruction,” *Frontiers in Neuroinformatics*, vol. 14, p. 611666, 2020.
- [42] Q. Jin, R. Lin, and F. Yang, “E-wacgan: Enhanced generative model of signaling data based on wgan-gp and acgan,” *IEEE Systems Journal*, vol. 14, no. 3, pp. 3289–3300, 2019.
- [43] M. Abdurrahman, N. H. Shabrina, and D. K. Halim, “Generative adversarial network implementation for batik motif synthesis,” in *2019 5th International Conference on New Media Studies (CONMEDIA)*. IEEE, 2019, pp. 63–67.
- [44] Y. Huang, J. Su, J. Wang, and S. Ji, “Batik-dg: Improved deblurgan for batik crack pattern generation,” in *IOP Conference Series: Materials Science and Engineering*, vol. 790, no. 1. IOP Publishing, 2020, p. 012034.
- [45] A. E. Minarno, T. D. Antoko, and Y. Azhar, “Generation of batik patterns using generative adversarial network with content loss weighting,” *International Journal on Advanced Science, Engineering & Information Technology*, vol. 13, no. 1, 2023.
- [46] C. Yang, Z. Yang, S. Liao, Z. Hong, and W. Nai, “Triple-gan with variable fractional order gradient descent method and mish activation function,” in *2020 12th International Conference on Intelligent Human-Machine Systems and Cybernetics (IHMSC)*, vol. 1. IEEE, 2020, pp. 244–247.
- [47] M. Welfert, G. R. Kurri, K. Otstot, and L. Sankar, “Addressing gan training instabilities via tunable classification losses,” *IEEE Journal on Selected Areas in Information Theory*, 2024.
- [48] Y. Huang, W. Mei, S. Liu, and T. Li, “Asymmetric training of generative adversarial network for high fidelity sar image generation,” in *IGARSS 2022-2022 IEEE International Geoscience and Remote Sensing Symposium*. IEEE, 2022, pp. 1576–1579.

- [49] A. Roy and D. Dasgupta, “A distributed conditional wasserstein deep convolutional relativistic loss generative adversarial network with improved convergence,” *IEEE Transactions on Artificial Intelligence*, 2024.
- [50] W.-T. Chu and L.-Y. Ko, “Batikgan: A generative adversarial network for batik creation,” in *Proceedings of the 2020 Joint Workshop on Multimedia Artworks Analysis and Attractiveness Computing in Multimedia*, 2020, pp. 13–18.
- [51] Y. Li, C. Fang, J. Yang, Z. Wang, X. Lu, and M.-H. Yang, “Universal style transfer via feature transforms,” *Advances in neural information processing systems*, vol. 30, 2017.
- [52] A. E. Minarno, H. A. Nugroho, and I. Soesanti, “Batik nitik 960,” vol. 2, 2022.
- [53] E. M. Martey, H. Lei, X. Li, and O. Appiah, “Image representation using stacked colour histogram,” *Algorithms*, vol. 14, no. 8, p. 228, 2021.
- [54] N. A. Irfa’ina Rohana Salma, D. Zaafarani, D. B. Prasetyo, and A. Bahrudin, “Sustainability of the batik industry through the use of information and communication technology (ict) to improve competitiveness in the digital age,” in *Prosiding Seminar Nasional Industri Kerajinan dan Batik*, 2024.
- [55] M. Abdurrahman, N. H. Shabrina, and D. K. Halim, “Generative adversarial network implementation for batik motif synthesis,” in *2019 5th International Conference on New Media Studies (CONMEDIA)*. IEEE, 2019, pp. 63–67.
- [56] A. E. Minarno, M. C. Mustaqim, Y. Azhar, W. A. Kusuma, and Y. Munarko, “Deep convolutional generative adversarial network application in batik pattern generator,” in *2021 9th International Conference on Information and Communication Technology (ICoICT)*. IEEE, 2021, pp. 54–59.
- [57] J. Johnson, A. Alahi, and L. Fei-Fei, “Perceptual losses for real-time style transfer and super-resolution,” *CoRR*, vol. abs/1603.08155, 2016. [Online]. Available: <http://arxiv.org/abs/1603.08155>
- [58] M. Heusel, H. Ramsauer, T. Unterthiner, B. Nessler, and S. Hochreiter, “Gans trained by a two time-scale update rule converge to a local nash equilibrium,” *Advances in neural information processing systems*, vol. 30, 2017.
- [59] S. Ioffe and C. Szegedy, “Batch normalization: Accelerating deep network training by reducing internal covariate shift,” in *International conference on machine learning*. pmlr, 2015, pp. 448–456.
- [60] K. He, X. Zhang, S. Ren, and J. Sun, “Deep residual learning for image recognition,” in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2016, pp. 770–778.
- [61] R. A. Khan, Y. Luo, and F.-X. Wu, “Multi-level gan based enhanced ct scans for liver cancer diagnosis,” *Biomedical Signal Processing and Control*, vol. 81, p. 104450, 2023.

- [62] H. Prasetyo and B. A. P. Akardihhas, “Batik image retrieval using convolutional neural network,” *Telkomnika (Telecommunication Computing Electronics and Control)*, vol. 17, no. 6, pp. 3010–3018, 2019.
- [63] W. Shi, J. Caballero, F. Huszár, J. Totz, A. P. Aitken, R. Bishop, D. Rueckert, and Z. Wang, “Real-time single image and video super-resolution using an efficient sub-pixel convolutional neural network,” in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2016, pp. 1874–1883.
- [64] Z. Wang, A. C. Bovik, H. R. Sheikh, and E. P. Simoncelli, “Image quality assessment: from error visibility to structural similarity,” *IEEE transactions on image processing*, vol. 13, no. 4, pp. 600–612, 2004.
- [65] T. An, B. Mao, B. Xue, C. Huo, S. Xiang, and C. Pan, “Patch loss: A generic multi-scale perceptual loss for single image super-resolution,” *Pattern Recognition*, vol. 139, p. 109510, 2023.
- [66] J. Song, H. Yi, W. Xu, B. Li, and X. Li, “Gram-gan: image super-resolution based on gram matrix and discriminator perceptual loss,” *Sensors*, vol. 23, no. 4, p. 2098, 2023.
- [67] Chrystian, “Itb-mbatik dataset,” *Mendeley Data*, 2023.
- [68] Y. Gultom, A. M. Arymurthy, and R. J. Masikome, “Batik classification using deep convolutional network transfer learning,” *Jurnal Ilmu Komputer dan Informasi*, vol. 11, no. 2, pp. 59–66, 2018.
- [69] A. E. Minarno, I. Soesanti, and H. A. Nugroho, “Dataset of batik nitik sarimbit 120,” *Data in Brief*, vol. 55, p. 110671, 2024.