



DAFTAR PUSTAKA

- Abdullah, H. N., dan Abdullah, H. A., 2017, Image encryption using hybrid chaotic map. *2017 International Conference on Current Research in Computer Science and Information Technology (ICCIT)*, 7820, hal.1 - 7.
- Ahanonu, E., M. Marcellin, dan A. Bilgin. 2018. Lossless Image Compression Using Reversible Integer Wavelet Transforms and Convolutional Neural Networks, *IEEE Data Compression Conference 2018*.
- Banala, C.R. 2019. Image Compression using GAN, https://github.com/crbanala/image_compression.
- Carpentieri, B., 2018, Efficient compression and encryption for digital data transmission, *Security and Communication Networks*. Volume 2018.
- Castelluccio, M., Poggi, G., Sansone, C. dan Verdoliva, L., 2015. Land Use Classification in Remote Sensing Images by Convolutional Neural Networks, ArXiv, abs/1508.00092.
- Dridi, M., Hajjaji, M.A., Bouallegue, B. dan Mtibaa, A., 2016, Cryptography of medical images based on a combination between chaotic and neural network, *IET Image Processing*, 10, 11, 830–839.
- Enzeng,D., Zengqiang, C., Zhuzhi, Y. dan Zaiping, C., A Chaotic Images Encryption Algorithm with the Key Mixing Proportion Factor, *International Conference on Information Management, Innovation Management and Industrial Engineering*, 2008, pp. 169-174, doi: 10.1109/ICIII.2008.25.
- Gonzalez, R. C., Woods, R.E., 2008, *Digital Image Processing*, Addison-Wesley Publishing Company Inc., USA.
- Gonzalez, R dan Woods, R, 2002, *Digital Image Processing*. Prentice Hall, New Jersey-USA, second edition. ISBN 81-7808-629-8.
- Goodfellow, Ian, Pouget-Abadie, Jean, Mirza, Mehdi, Xu, Bing, Warde-Farley, David, Ozair, Sherjil, Courville, Aaron, dan Bengio, Yoshua. Generative adversarial nets. *NIPS*, pp. 2672–2680, 2014.



- Hai, F., K.F. Hussain, E. Gelenbe, dan R.K. Guha, 2001. Video compression with wavelets and random neural network approximations. *International Society for Optics and Photonics*, vol 4305, pp. 57-65.
- Hajjaji, M.A., Dridi, M. dan Mtibaa, A., 2019, A medical image crypto-compression algorithm based on neural network and PWLCM, *Multimedia Tools and Applications*, 78, 11, 14379–14396.
- Hamdi, M., Rhouma, R., dan Belghith, S., 2017. A selective compression-encryption of images based on SPIHT coding and Chirikov Standard Map. *Signal Process.*, 131, 514-526..
- Heaton, J., 2015. *Artificial Intelligence for Humans*, Volume 3 : Deep Learning and Neural Networks, Artificial Intelligence for Human Series, CreateSpace Independent Publishing Platform.
- Hua, Z dan Zhou, Y., 2017, Design of image cipher using block-based scrambling and image filtering. *Information Sciences*, 396(-):97–113. ISSN 00200255.
- Jurafsky D., dan Martin. J.H., 2020, Speech and Language Processing, Pearson Prentice Hall. New Jersey,
- Jolfaei, A. dan Mirghadri A., 2011, Image Encryption Using Chaos and Block Cipher, *Computer and Information Science*, Vol 4, No. 1.
- Khadem, B., dan Ahmadian, R., 2019, Comparative study of Joint Image Encryption and Compression Schemes: A Review. ArXiv, abs/1906.09423.
- Kingma, D.P., dan Ba, J. 2015. Adam: A Method for Stochastic Optimization. CoRR, abs/1412.6980.
- Krishnan, K.S., Jaison, B., dan Raja, S.P. 2020. Secured Color Image Compression based on Compressive Sampling and Lü System. *Inf. Technol. Control.*, 49, 346-369.
- Kumar, T., dan Verma, K. 2010. A Theory Based on Conversion of RGB image to Gray image. *International Journal of Computer Applications*, 7, 5-12.
- Li, Y., Wang, Q., Zhang, J., Hu, L., Ouyang, W., 2021. The theoretical research of generative adversarial networks: an overview, *Neurocomputing*, Volume 435, Pages 26-41, ISSN 0925-2312,



- Löhdefink, J., A. Bär, N. M. Schmidt, F. Hüger, P. Schlicht dan T. Fingscheidt 2019. On Low-Bitrate Image Compression for Distributed Automotive Perception: Higher Peak SNR Does Not Mean Better Semantic Segmentation. *IEEE Intelligent Vehicles Symposium (IV)*, pp. 424-431, doi: 10.1109/IVS.2019.8813813.
- Loussert, A., Alfalou, A., Sawda, R. El dan Alkholidi, A., 2008, Enhanced System for Image's Compression and Encryption by Addition of Biometric Characteristics, *International Journal of Software Engineering and Its Applications*.
- Ma, S., Zhang, X., Jia, C., Zhao, Z., Wang, S. dan Wanga, S., 2019, Image and Video Compression with Neural Networks: A Review, *IEEE Transactions on Circuits and Systems for Video Technology*, 1–1.
- Mahony, N.O., Campbell, S., Carvalho, A., Harapanahalli, S., Velasco-Hernández, G., Krpalkova, L., Riordan, D., dan Walsh, J., 2019, Deep Learning vs. Traditional Computer Vision. arXiv: Computer Vision and Pattern Recognition.
- Manjinder, K dan Gaganpreet, K, Februari 2013, A Survey of Lossless and Lossy Image Compression Techniques. *International Journal of Advanced Research in Computer Science and Software Engineering*, 3(2):323–326. ISSN 2277 128X. www.ijarcsse.com.
- Mijwel, Maad M., 2018, Artificial Neural Networks Advantages and Disadvantages.
- Morales-Sandoval, M. dan Feregrino-Uribe, C., 2005, A hardware architecture for elliptic curve cryptography and lossless data compression, *Proceedings - 15th International Conference on Electronics, Communications and Computers (CONIELECOMP)*, 2005.
- Munir, R., 2006, *Kriptografi*, Penerbit Informatika, Bandung.
- Nielsen, M., 2015, Neural Networks and Deep Learning, [Online]. tersedia di DOI:10.1201/b22400-15.
- Prijono, B., 2015, Student Notes: Convolutional Neural Networks (CNN) Introduction [Online] tersedia di <https://indoml.com/2018/03/07/student-notes-convolutional-neural-networks-cnn-introduction/>.



- Radford, A., Metz, L., dan Chintala, S. 2016. Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks. *CoRR*, *abs/1511.06434*.
- Raju, A., & Thirunavukkarasu, S. (2020). Convolutional Neural Network Demystified for a Comprehensive Learning with Industrial Application.
- Rippel, O. dan Bourdev, L., 2017, Real-time adaptive image compression, *34th International Conference on Machine Learning, ICML 2017*, 6, 4457–4473.
- Santoso, A. J, Nugroho, L. E, Suparta, G. B, dan Hidayat, R, Juni 2011, Color Image Compression Using Orthogonal Wavelet Viewed From Decomposition Level and Peak Signal to Noise Ratio. *International Journal of Advanced Science and Technology*, 31:81–92.
- Schneier, B., 1996, *Applied Cryptography 2nd Edition*, John Wiley & Sons, New York.
- Setyaningsih, E. dan Harjoko, A., 2017, Survey of hybrid image compression techniques, *International Journal of Electrical and Computer Engineering*, 7, 4, 2206–2214.
- Setyaningsih, E., Wardoyo, R. dan Sari, A.K., 2018, New Compression- Encryption Algorithm Using Chaos-Based Dynamic Session Key, *International Journal on Smart Sensing and Intelligent Systems*, Volume 11, Issue 1, 1–19.
- Setyaningsih, E., Wardoyo, R., & Sari, A.K. 2020. Securing color image transmission using compression-encryption model with dynamic key generator and efficient symmetric key distribution. *Digital Communications and Networks*, 6, 486-503.
- Srivastava, Nitish, Geoffrey E. Hinton, A. Krizhevsky, Ilya Sutskever dan R. Salakhutdinov, 2014, Dropout: a simple way to prevent neural networks from overfitting, *Mach. Learn. Res.*, vol. 15, 1929-1958.
- Sicuranza, G., G. Romponi, dan S. Marsi, 1990. Artificial neural network for image compression, *Electronics letters*, vol. 26, no.7, pp- 477-479.
- Sutoyo, T., Mulyanto, E., 2009, *Teori Pengolahan Citra Digital*, Penerbit ANDI, Yogyakarta.



- Suyanto. 2014. Artificial Intelligence (Revisi Kedua). Informatika : Bandung.
- Theis, Lucas, Shi, Wenzhe, Cunningham, Andrew, dan Huszar, Ferenc. 2016. Lossy image compression with compressive autoencoders. *ArXiv, abs/1703.00395*.
- Toderici, George, O'Malley, Sean M, Hwang, Sung Jin,Vincent, Damien, Minnen, David, Baluja, Shumeet, Covell, Michele, dan Sukthankar, Rahul. 2015. Variable rate image compression with recurrent neural networks. *arXiv preprint arXiv:1511.06085*.
- Toderici, G., D. Vincent, N. Johnston, S. J. Hwang, D. Minnen, J. Shor, and M. Covell, 2018, Lossless Image Compression Using Reversible Integer Wavelet Transforms and Convolutional Neural Networks, *IEEE Data Compression Conference 2018*.
- Meltem Tolunay, E. dan Ghalayini, A., 2018, Generative Neural Network Based Image Compression,<http://cs229.stanford.edu/proj2018/report/44.pdf>.
- Tong, X., Zhang, M., Wang, Z., dan Ma, J. 2016. A joint color image encryption and compression scheme based on hyper-chaotic system. *Nonlinear Dynamics*, 84, 2333-2356.
- Tran, L.D., Nguyen, S.M., dan Arai, M., GAN-based Noise Model for Denoising Real Images. 2020. Asian Conference on Computer Vision 2020, Virtual Kyoto.
- Trappe, W.dan Washington, L., 2006, *Introduction to Cryptography with Coding Theory 2nd Edition*, Prentice Hall, USA.
- Wang, Zhou, Bovik, Alan C, Sheikh, Hamid R, dan Simoncelli, Eero P. 2004. Image quality assessment: from error visibility to structural similarity. *IEEE transactions on image processing*, 13(4):600–612
- Welstead, Stephen T. (1999). Fractal and wavelet image compression techniques. *SPIE Publication*. pp. 155–156. ISBN 978-0-8194-3503-3
- Yang, F., Mou, J., Sun, K. dan Chu, R., 2020, Lossless image compression-encryption algorithm based on BP neural network and chaotic system, *Springer Nature*.
- Younes, M.A.B. dan Jantan, A., 2008, Image Encryption Using Block - Based Transformation Algorithm, *IAENG International Journal of Computer Science*, 35:1



Yusri, T.A.S., Harjoko, A., dan Sari, A.K., 2018, *Enkripsi Citra Digital Berbasis Kombinasi Chaotic Map Dan DNA Encoding*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.

Zhi, T., Duan, L.Y., Wang, Y. dan Huang, T., 2016. Two-stage pooling of deep convolutional features for image retrieval, *Proceedings – International Conference on Image Processing, ICIP*. 2645-2469.