

REFERENCES

- [1] W.-W. Hu, R.-G. Zhou, A. El-Rafei, and S.-X. Jiang, "Quantum image watermarking algorithm based on haar wavelet transform," *IEEE Access*, vol. 7, pp. 121 303–121 320, 2019.
- [2] S. Sowmya, S. Karanth, and S. Kumar, "Protection of data using image watermarking technique," *Global Transitions Proceedings*, vol. 2, no. 2, pp. 386–391, 2021.
- [3] R. Singh, M. Saraswat, A. Ashok, H. Mittal, A. Tripathi, A. C. Pandey, and R. Pal, "From classical to soft computing based watermarking techniques: A comprehensive review," *Future Generation Computer Systems*, vol. 141, pp. 738–754, 2023.
- [4] M. W. Hatoum, J.-F. Couchot, R. Couturier, and R. Darazi, "Using deep learning for image watermarking attack," *Signal Processing: Image Communication*, vol. 90, p. 116019, 2021.
- [5] C. C. Chang, Y. Liu, and T. S. Nguyen, "A novel turtle shell based scheme for data hiding," in *2014 tenth international conference on intelligent information hiding and multimedia signal processing*. IEEE, 2014, pp. 89–93.
- [6] Y. Liu, C.-C. Chang, and T.-S. Nguyen, "High capacity turtle shell-based data hiding," *IET Image Processing*, vol. 10, no. 2, pp. 130–137, 2016.
- [7] J.-Y. Lin, Y. Liu, and C.-C. Chang, "A real-time dual-image-based reversible data hiding scheme using turtle shells," *Journal of Real-Time Image Processing*, vol. 16, pp. 673–684, 2019.
- [8] C.-C. Lin, S.-L. He, and C.-C. Chang, "Pixel-based fragile image watermarking based on absolute moment block truncation coding," *Multimedia Tools and Applications*, vol. 80, no. 19, pp. 29 497–29 518, 2021.
- [9] C.-C. Chang and Y. Liu, "Fast turtle shell-based data embedding mechanisms with good visual quality," *Journal of Real-Time Image Processing*, vol. 16, pp. 589–599, 2019.

- [10] X.-Z. Xie, C.-C. Chang, C.-C. Lin, and J.-L. Lin, "A turtle shell based rdh scheme with two-dimensional histogram shifting," *Multimedia Tools and Applications*, vol. 78, pp. 19 413–19 436, 2019.
- [11] X.-S. Li, C.-C. Chang, M.-X. He, and C.-C. Lin, "A lightweight authenticable visual secret sharing scheme based on turtle shell structure matrix," *Multimedia Tools and Applications*, vol. 79, no. 1, pp. 453–476, 2020.
- [12] S. Boujerfaoui, R. Riad, H. Douzi, F. Ros, and R. Harba, "Image watermarking between conventional and learning-based techniques: A literature review," *Electronics*, vol. 12, no. 1, 2023. [Online]. Available: <https://www.mdpi.com/2079-9292/12/1/74>
- [13] S. Gani and B. Setiyono, "Teknik invisible watermarking digital menggunakan metode dwt (discrete wavelet tarnsform)," *Jurnal Sains dan Seni ITS*, vol. 7, no. 2, pp. 24–30, 2019.
- [14] R. Kusumanto and A. N. Tomponu, "pengolahan citra digital untuk mendeteksi obyek menggunakan pengolahan warna model normalisasi rgb," in *Seminar Nasional Teknologi Informasi & Komunikasi Terapan*, vol. 2011, 2011, pp. 1–7.
- [15] R. C. Gonzalez and R. E. Woods, *Digital Image Processing*, 4th ed. Prentice Hall, 2018.
- [16] A. Dixit and R. Dixit, "A review on digital image watermarking techniques," *International Journal of Image, Graphics and Signal Processing*, vol. 9, no. 4, p. 56, 2017.
- [17] J. Xuehua, "Digital watermarking and its application in image copyright protection," in *2010 International Conference on Intelligent Computation Technology and Automation*, vol. 2, 2010, pp. 114–117.
- [18] A. Dixit and R. Dixit, "A review on digital image watermarking techniques," *International Journal of Image, Graphics and Signal Processing*, vol. 9, no. 4, p. 56, 2017.
- [19] B. E. Baaquie and L.-C. Kwek, "Quantum computers: Theory and algorithms," 2023.
- [20] M.-X. Wang, H.-M. Yang, D.-H. Jiang, B. Yan, J.-S. Pan, and T. Liu, "A novel quantum color image steganography algorithm based on turtle shell and lsb," *Quantum Information Processing*, vol. 21, no. 4, p. 148, 2022.

- [21] J.-L. Yao, H.-M. Yang, D.-H. Jiang, B. Yan, J.-S. Pan, and M.-X. Wang, "A novel quantum image steganography algorithm based on double-layer gray code," *International Journal of Theoretical Physics*, vol. 62, no. 3, p. 52, 2023.
- [22] A. Purbaningrum, K. S. Amalia, and I. A. Saputro, "Penerapan metode least significant bit (lsb) dalam menyisipkan pesan rahasia pada citra digital: Sebuah pendekatan steganografi," in *Seminar Nasional AMIKOM Surakarta (SEMNAS)*. AMIKOM Surakarta, 2023, pp. 176–183.
- [23] R. A. Mohammed, "An improvement of rgb color image watermarking technique using isb stream bit and hadamard matrix," Master's thesis, Universiti Teknologi Malaysia, 2014.
- [24] D. Darisman, P. Sokibi, and M. Asfi, "Aplikasi steganografi untuk penyembunyan data ke dalam citra digital dengan kombinasi metode least significant bit (lsb) dan algoritma vigenere cipher," *Jurnal Digit*, vol. 4, no. 2, pp. 240–257, 2014.
- [25] C.-C. Chang and Y. Liu, "Fast turtle shell-based data embedding mechanisms with good visual quality," *Journal of Real-Time Image Processing*, vol. 16, pp. 589–599, 2019.
- [26] E. Nugraheni and N. H. Lestriandoko, "Uji ketahanan metode block-base watermarking pada domain wavelet terhadap serangan gaussian blur dan random noise," in *Proceedings of P2 Informatika - LIPI*, Jl. Cisitu, Sangkuriang, Bandung 40135, 2024.
- [27] M. W. Hatoum, J.-F. Couchot, R. Couturier, and R. Darazi, "Using deep learning for image watermarking attack," *Signal Processing: Image Communication*, vol. 90, p. 116019, 2021. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0923596520301715>
- [28] R. Rajkumar and A. Vasuki, "Reversible and robust image watermarking based on histogram shifting," *Cluster Computing*, vol. 22, pp. 12 313–12 323, 2019.
- [29] L. Lidyawati, A. R. Darlis, L. Jambola, and T. H. January, "Performance analysis image watermarking using discrete cosine transforms," in *2019 IEEE International Conference on Signals and Systems (ICSigSys)*, 2019, pp. 50–55.
- [30] M. Nazari and M. Mehrabian, "A novel chaotic iwt-lsb blind watermarking approach with flexible capacity for secure transmission of authenticated med-

- ical images,” *Multimedia Tools and Applications*, vol. 80, pp. 10 615–10 655, 2021.
- [31] T. Zhu, W. Qu, and W. Cao, “An optimized image watermarking algorithm based on svd and iwt,” *The Journal of Supercomputing*, vol. 78, pp. 222–237, 2022.
- [32] N. Tarhouni, M. Charfeddine, and C. Ben Amar, “Novel and robust image watermarking for copyright protection and integrity control,” *Circuits, Systems, and Signal Processing*, vol. 39, pp. 5059–5103, 2020.
- [33] P. Singh, A. Agarwal, and J. Gupta, “Image watermark attacks: Classification & implementation,” *IJECT*, vol. 4, no. 2, pp. 1–, 2013.
- [34] R. Streijl, S. Winkler, and D. Hands, “Mean opinion score (mos) revisited: methods and applications, limitations and alternatives,” *Multimedia Systems*, vol. 22, no. 2, pp. 213–227, 2016.
- [35] H.-N. Huang, S.-T. Chen, M.-S. Lin, and W.-M. Kung, “Optimization-based embedding for wavelet-domain audio watermarking,” *Journal of Signal Processing Systems*, vol. 80, 08 2013.
- [36] M. Jia-Fa, Z. Ru, N. Xin-Xin *et al.*, “Research of spatial domain image digital watermarking payload,” *EURASIP Journal on Information Security*, vol. 2011, p. 502748, 2011.