

DAFTAR PUSTAKA

- [1] C. Hagen, C. Weinert, C. Sendner, A. Dmitrienko, and T. Schneider, "Contact Discovery in Mobile Messengers: Low-cost Attacks, Quantitative Analyses, and Efficient Mitigations," *ACM Transactions on Privacy and Security*, vol. 26, no. 1, Nov. 2022, doi: 10.1145/3546191.
- [2] N. Samarin *et al.*, "The Medium is the Message: How Secure Messaging Apps Leak Sensitive Data to Push Notification Services," Jul. 2024, [Online]. Available: <http://arxiv.org/abs/2407.10589>
- [3] K. Ashish, Y. Bolisetty, D. Singh, and A. Kaur, "Encryption, Privacy, and Usability : A Comparative Evaluation of Leading Secure Messaging Platforms," *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, vol. 10, no. 2, pp. 551–555, Apr. 2024, doi: 10.32628/cseit2410272.
- [4] G. Karnedi and R. G. Alam, "Evaluasi Regulasi Perlindungan Data Pribadi di Indonesia: Komparasi dengan GDPR Uni Eropa," *El-Mujtama: Jurnal Pengabdian Masyarakat*, vol. 5, no. 3, Jun. 2025, doi: 10.47467/elmujtama.v5i3.8549.
- [5] N. O. Gavrilidis, S. T. Halkidis, and S. Petridou, "Empirical Evaluation of TLS-Enhanced MQTT on IoT Devices for V2X Use Cases," *Applied Sciences (Switzerland)*, vol. 15, no. 15, Aug. 2025, doi: 10.3390/app15158398.
- [6] A. Susanti, B. A. Prasetya, O. D. Pangesti, L. D. Suryawati, and I. A. Saputro, "Perbandingan Kinerja dan Keamanan Algoritma Kriptografi Modern AES-GCM dengan CHACHA20-POLY1305," *Infomatek*, vol. 26, no. 2, pp. 253–264, Dec. 2024, doi: 10.23969/infomatek.v26i2.19255.
- [7] O. Valikhanli and F. Abdullayeva, "Securing UAV Flight Data Using Lightweight Cryptography and Image Steganography." [Online]. Available: www.ijacsa.thesai.org
- [8] T. Beyne, Y. L. Chen, and M. Verbauwheide, "A Robust Variant of ChaCha20-Poly1305," 2025.
- [9] A. O. Akinwumi, O. L. Ogbeide, and D. F. Folorunso, "ISSN : 2394-4714 Foundation of Computer Science FCS," 2023. [Online]. Available: www.caeaccess.org
- [10] B. Kusuma Ilham, M. F. Sidiq, M. Agung Nugroho, and T. Yuniati, "Implementasi Gabungan AES-256 Dan RSA Dengan Metode LSB Untuk Keamanan Data IMPLEMENTASI GABUNGAN AES-256 DAN RSA DENGAN METODE LSB UNTUK KEAMANAN

DATA,” 2026.

- [11] N. Ratama and M. Munawaroh, “Implementasi Metode Kriptografi dengan Menggunakan Algoritma RC4 dan Steganografi Least Significant Bit Dalam Mengamankan Data Berbasis Android,” *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 6, no. 2, p. 1272, Apr. 2022, doi: 10.30865/mib.v6i2.3902.
- [12] S. Soleman, D. Budiman, and S. Mubaroq, “Combination RC4 Algorithm and Base64 Encryption on The Least Significant Bit Method,” *Jurnal CoreIT: Jurnal Hasil Penelitian Ilmu Komputer dan Teknologi Informasi*, vol. 8, no. 2, p. 103, Jan. 2023, doi: 10.24014/coreit.v8i2.20106.
- [13] R. Serrano, C. Duran, M. Sarmiento, C. K. Pham, and T. T. Hoang, “ChaCha20–Poly1305 Authenticated Encryption with Additional Data for Transport Layer Security 1.3,” *Cryptography*, vol. 6, no. 2, Jun. 2022, doi: 10.3390/cryptography6020030.
- [14] D. O. Orucho, F. M. Awuor, R. Makiya, and C. Oduor, “An Enhanced Data Transmission in Mobile Banking Using LSB-AES Algorithm,” *Asian Journal of Research in Computer Science*, vol. 16, no. 1, pp. 43–56, Jun. 2023, doi: 10.9734/ajrcos/2023/v16i1334.
- [15] A. T. Maolood, E. K. Gbashi, and E. S. Mahmood, “Novel lightweight video encryption method based on ChaCha20 stream cipher and hybrid chaotic map,” *International Journal of Electrical and Computer Engineering*, vol. 12, no. 5, pp. 4988–5000, Oct. 2022, doi: 10.11591/ijece.v12i5.pp4988-5000.
- [16] V. Bhagat, S. Kumar, S. K. Gupta, and M. K. Chaube, “Lightweight cryptographic algorithms based on different model architectures: A systematic review and futuristic applications,” *Concurr. Comput.*, vol. 35, no. 1, Jan. 2023, doi: 10.1002/cpe.7425.
- [17] Y. Feng, “Design of an Encryption Chat Application Based on ChaCha20-Poly1305,” 2024.
- [18] M. Alanzy, R. Alomrani, B. Alqarni, and S. Almutairi, “Image Steganography Using LSB and Hybrid Encryption Algorithms,” *Applied Sciences (Switzerland)*, vol. 13, no. 21, Nov. 2023, doi: 10.3390/app132111771.
- [19] A. I. Prayogo, A. Nugraha, T. F. Novanto, and J. C. Kurniawan, “Enhancing Least Significant Bit Steganography Image Fidelity Using Brotli Compression,” *Sinkron*, vol. 9, no. 1, pp. 285–295, Jan. 2024, doi: 10.33395/sinkron.v9i1.13186.
- [20] Q. Nguyen, T. Vu, C. Pham, A. Tran, and K. Nguyen, “Stable

Messenger: Steganography for Message-Concealed Image Generation,” Aug. 2024, [Online]. Available: <http://arxiv.org/abs/2312.01284>

- [21] R. Golla Bala and S. Gnanavel, “BC2P-1305: an enhanced data security in cloud computing network using blockchain based ChaCha20-Poly1305 cryptography,” *Frontiers in Blockchain*, vol. 8, 2025, doi: 10.3389/fbloc.2025.1636056.
- [22] A. H. Harahap, C. Difa Andani, A. Christie, D. Nurhaliza, and A. Fauzi, “Pentingnya Peranan CIA Triad Dalam Keamanan Informasi dan Data Untuk Pemangku Kepentingan atau Stakholder”, Accessed: Jun. 08, 2026. [Online]. Available: <https://doi.org/10.38035/jmpd.v1i2.34>
- [23] R. K. Muhammed *et al.*, “Comparative Analysis of AES, Blowfish, Twofish, Salsa20, and ChaCha20 for Image Encryption.”
- [24] S. Barbero, D. Bazzanella, and E. Bellini, “Rotational Cryptanalysis on ChaCha Stream Cipher,” *Symmetry (Basel)*, vol. 14, no. 6, Jun. 2022, doi: 10.3390/sym14061087.
- [25] D. J. Bernstein, “ChaCha, a variant of Salsa20.”
- [26] D. J. Bernstein, “The Poly1305-AES message-authentication code.” [Online]. Available: <http://cr.yp.to/talks.html#2002.06.15>,
- [27] M. Patria and D. A. Andriati, “Analisis Komparatif Performa AES-GCM dan ChaCha20-Poly1305 dalam Enkripsi Dokumen PDF Berbasis AEAD,” *Arcitech: Journal of Computer Science and Artificial Intelligence*, vol. 5, no. 1, pp. 49–69, Jun. 2025, doi: 10.29240/arcitech.v5i1.13645.
- [28] S. A. Bhagat, “Review on Mobile Application Development Based on Flutter Platform,” *Int. J. Res. Appl. Sci. Eng. Technol.*, vol. 10, no. 1, pp. 803–809, Jan. 2022, doi: 10.22214/ijraset.2022.39920.
- [29] A. Sherine, G. Peter, A. A. Stonier, D. W. Leh Ping, K. Praghash, and V. Ganji, “Development of an Efficient and Secured E-Voting Mobile Application Using Android,” *Mobile Information Systems*, vol. 2022, 2022, doi: 10.1155/2022/8705841.
- [30] M. H. Kombrink, Z. J. M. H. Geradts, and M. Worrying, “Image Steganography Approaches and Their Detection Strategies: A Survey,” *ACM Comput. Surv.*, vol. 57, no. 2, Oct. 2024, doi: 10.1145/3694965.
- [31] C. K. Chan and L. M. Cheng, “Hiding data in images by simple LSB substitution,” *Pattern Recognit.*, vol. 37, no. 3, pp. 469–474, Mar. 2004, doi: 10.1016/j.patcog.2003.08.007.

- [32] Avantika Bisht, Annu Singla, and Kamaldeep Joshi, "A Review on Image Steganography Techniques," *International Research Journal on Advanced Engineering Hub (IRJAEH)*, vol. 2, no. 07, pp. 1986–1996, Jul. 2024, doi: 10.47392/irjaeh.2024.0271.
- [33] F. Alonso, B. Samaniego, G. Farias, and S. Dormido-Canto, "Analysis of Cryptographic Algorithms to Improve Cybersecurity in the Industrial Electrical Sector," *Applied Sciences (Switzerland)*, vol. 14, no. 7, Apr. 2024, doi: 10.3390/app14072964.
- [34] C. Zhang, R. Sun, J. Ren, L. Liu, L. Wang, and J. Ma, "MAE-based image inpainting-steganography method," *Cybersecurity*, vol. 9, no. 1, Dec. 2026, doi: 10.1186/s42400-025-00486-y.
- [35] R. M. Filho, R. Barreto, R. Bonfim, R. De Freitas, and L. Pessoa, "Measuring the execution time of programs from different Android embedded programming languages."
- [36] P. Rahmatunnisa, F. D. Ryenfi, A. Rizkynda, Q. Hafiz, and A. Khairunisha, "Penerapan Steganografi Pada File Gambar Dengan Menggunakan Metode Lsb," 2026.
- [37] M. NOVAL, N. Hayaty, and R. Herikson, "Pengamanan pesan rahasia berbasis mobile menggunakan Steganografi LSB, RSA-OAEP, AES-GCM, dan Autentikasi Biometrik Sidik Jari," 2026.