

DAFTAR PUSTAKA

- [1] K. A. McGowan, "Evaluating Bat Response to Human-Altered Landscape in a Midwestern River Corridor: An Abundance Modeling Analysis Using Bioacoustics," M.S. thesis, Dept. Biology, Ball State Univ., Muncie, IN, USA, Des. 2023. [Online]. Tersedia: <https://sbdn.org/wp-content/uploads/2024/03/McGowan-Thesis-2023-Bat-responce-to-urban-landscapes.pdf>
- [2] R.K. Lučan, T. Jor, D. Romportl, and F. Morelli, "Use of synanthropic roosts by bats in Europe and North America," *Mam Rev*, 55: e12380, 2025. [Online]. Tersedia: <https://doi.org/10.1111/mam.12380>
- [3] L. B. Piló, A. Calux, R. Scherer, and E. Bernard, "Bats as ecosystem engineers in iron ore caves in the Carajás National Forest, Brazilian Amazonia," *bioRxiv*, preprint, Apr. 2022. [Online]. Tersedia: <https://doi.org/10.1101/2022.04.19.488750>
- [4] A. Giacomelli, et al., "An outbreak of acute pulmonary histoplasmosis after exposure to guano in a hollow tree in Ecuador," *Travel Medicine and Infectious Disease*, vol. 67, Sep. 2025.
- [5] R.K. Lučan, T. Jor, D. Romportl, and F. Morelli, "Use of synanthropic roosts by bats in Europe and North America," *Mam Rev*, 55: e12380, 2025. [Online]. Tersedia: <https://doi.org/10.1111/mam.12380>
- [6] J. Arévalo-Cortés, J. Tulcan-Flores, D. Zurc, S. A. Montenegro-Muñoz, J. J. Calderón-Leytón, and R. A. Fernández-Gómez, "Description of the echolocation pulses of insectivorous bats with new records for Southwest Colombia," *Mammal Research*, vol. 69, hlm. 231-244, Jan. 2024. [Online]. Tersedia: <https://doi.org/10.1007/s13364-023-00734-x>
- [7] X. Li, H. Wang, X. Wang, M. Bao, R. Sun, W. Dai, K. Sun, and J. Feng, "Molecular adaptations underlying high-frequency hearing in the brain of CF

- bats species," *BMC Genomics*, vol. 25, no. 279, Mar. 2024. [Online]. Tersedia: <https://doi.org/10.1186/s12864-024-10212-6>
- [8] B. A. Betke, N. L. Gottdenker, L. A. Meyers, and D. J. Becker, "Ecological and evolutionary characteristics of anthropogenic roosting ability in bats of the world," *iScience*, vol. 27, no. 7, hlm. 110369, Jul. 2024. [Online]. Tersedia: <https://doi.org/10.1016/j.isci.2024.110369>
- [9] S. Zhang, Y. Li, and R. C. Roberts, "A High-Performance Piezoelectric MEMS Microphone with Wide Bandwidth for *Ultrasonic* Applications," *IEEE Electron Device Letters*, vol. 42, no. 6, pp. 903-906, June 2021.
- [10] B. Sun, J. Arulas, and F. Heide, "Tuning IR-Cut Filter for Illumination-Aware Spectral Reconstruction From RGB," in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021, pp. 8292-8301.
- [11] Argirusis N, Achilleos A, Alizadeh N, Argirusis C, Sourkouni G. IR Sensors, Related Materials, and Applications. *Sensors*. 2025; 25(3):673. <https://doi.org/10.3390/s25030673>
- [12] Ziang Liu, Peng Huo, Chenyu Shi, Yuquan Yan, Fanlin Kong, Shiyu Cao, Aimin Chang, Junhua Wang, Jincheng Yao, Design of temperature measurement system guided by thermal dissipation coefficient of NTC thermistor, *Sensors and Actuators A: Physical*, Volume 377, 2024, 115772, ISSN 0924-4247, <https://doi.org/10.1016/j.sna.2024.115772>.
- [13] M. Chiro, A. G. S. and T. A. R. "Acoustic Contextual Analysis of Bat Social Communication for Environmental Monitoring," in *2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Singapore, 2022, pp. 543-54
- [14] Trivusi, "Perbedaan *Fuzzy* Inference System: Mamdani, Sugeno, dan Tsukamoto," *trivusi.web.id*, 09 Okt. 2022. [Online]. Tersedia:

<https://www.trivusi.web.id/2022/10/metode-inferensi-fuzzy.html>. [Diakses: 27 Okt. 2025].

- [15] Y. Liu, J. Zhang, and M. Li, "Research on the Interference Mechanism of *Ultrasonic Noise* on Bat Echolocation Systems," *IEEE Access*, vol. 9, pp. 12345–12354, 2021.
- [16] E. B. Arnett, C. D. Hein, M. R. Schirmacher, M. M. P. Huso, and J. M. Szewczak, "Evaluating the effectiveness of an *ultrasonic* acoustic deterrent for reducing bat fatalities at wind turbines," *PLoS One*, vol. 8, no. 6, p. e65794, 2013.
- [17] Knowles Electronics, "SPH0645LM4H-B: I2S Digital Output MEMS Microphone Datasheet," Rev. C, Itasca, IL, USA, 2015. [Online]. Tersedia: <https://www.knowles.com>
- [18] TDK InvenSense, "INMP441: Omnidirectional Microphone with Bottom Port and I2S Interface Datasheet," Rev. 1.1, San Jose, CA, USA, 2014.
- [19] Analog Devices, "ADMP401: Omnidirectional Microphone with Bottom Port and Analog Output Datasheet," Norwood, MA, USA, 2012.
- [20] Reversatronics, "I2S microphones on ESP32- how high can it go?," *Reversatronics*, Jun. 28, 2020. [Online]. Available: <https://reversatronics.blogspot.com/2020/06/i2s-microphones-on-esp32-how-high-can-i.html>. [Accessed: Dec. 31, 2025].
- [21] Espressif Systems, "ESP32 Datasheet," SparkFun (PDF). [Online].
- [22] Raspberry Pi Foundation, "Raspberry Pi 4 Model B Datasheet," Raspberry Pi Trading Ltd., Cambridge, UK, 2019.
- [23] Arduino, "Arduino Uno Rev3 Board Datasheet," Arduino.cc, 2022. [Online]. Tersedia: <https://docs.arduino.cc>
- [24] APC International Ltd., *Piezoelectric Ceramics: Principles and Applications*, 2nd ed. Mackville, PA: APC International, 2011.

- [25] J. A. Gallego-Juarez, "High-power *ultrasonic* transducers for use in gases," in *Power Ultrasonics*, J. A. Gallego-Juarez and K. F. Graff, Eds. Oxford, UK: Woodhead Publishing, 2015, pp. 719–752.
- [26] Motorola, "Piezoelectric Ceramic Speakers (KSN Series) Datasheet," Motorola Ceramic Products, Albuquerque, NM, 1999.
- [27] J. Collins (ed.), *Bat Surveys for Professional Ecologists: Good Practice Guidelines*, 3rd ed. London: The Bat Conservation Trust, 2016.
- [28] Espressif Systems, "SPIFFS (SPI Flash File System) API Reference - ESP-IDF Programming Guide," Espressif Systems, 2023. [Online]. Tersedia: <https://docs.espressif.com/projects/esp-idf/en/latest/esp32/api-reference/storage/spiffs.html>
- [29] P. Pelle, "Flash Memory File Systems for Embedded Devices," *Journal of Computer Systems and Cybernetics*, vol. 4, no. 2, pp. 45-52, 2021.
- [30] IEEE Computer Society, "IEEE Standard for Ethernet - Amendment 2: Physical Layer and Management Parameters for Power over Ethernet over 4 Pairs," *IEEE Std 802.3bt-2018*, 2018.
- [31] T. R. Crompton, *Battery Reference Book*, 3rd ed. Oxford: Newnes, 2000.
- [32] A. I. Pressman, K. Billings, and T. Morey, *Switching Power Supply Design*, 3rd ed. New York: McGraw-Hill Education, 2009.

- [29] P. Kaur, Y. Kumar, S. Ahmed, A. Alhumam, R. Singla, and M. Fazal Ijaz, "Automatic license plate recognition system for vehicles using a cnn," *Comput.*

Mater. Contin., vol. 71, no. 1, pp. 35–50, 2022, doi: 10.32604/cmc.2022.017681

- [30] Z. Fahrunnisa, R. Rahmadwati, and R. A. Setyawan, “Adaptive Traffic Light Signal Control Using *Fuzzy Logic* Based on Real-Time Vehicle Detection from Video Surveillance,” *J. Ilm. Tek. Elektro Komput. dan Inform.*, vol. 10, no. 2, pp. 235–251, 2024, doi: 10.26555/jiteki.v10i2.28712.
- [31] S. A. Aessa, E. H. Ali, S. W. Shneen, and L. H. Abood, “Adaptive *Fuzzy* Filter Technique for Mixed *Noise* Removing from Sonar Images Underwater,” *J. Fuzzy Syst. Control*, vol. 2, no. 2, pp. 45–49, 2024, doi: 10.59247/jfsc.v2i2.176.
- [32] G. Keifer and F. Effenberger, “*濟無* Optimal Automobile Muffler Vibration and *Noise* Analysis,” *Angew. Chemie Int. Ed.*, vol. 6, no. 11, pp. 951–952, 1967
- [33] Texas Instruments, “LM2596 SIMPLE SWITCHER® Power Converter 150-kHz 3-A Step-Down Voltage Regulator Datasheet,” Rev. D, Texas Instruments, Dallas, TX, 2013. [Online]. Tersedia: <https://www.ti.com>
- [34] XLSEMI, “XL4016: 180KHz Fixed Frequency PWM Buck (Step-down) DC/DC Converter 8A Capability Datasheet,” Rev. 1.1, XLSEMI, Shanghai, China, 2011.
- [35] Monolithic Power Systems (MPS), “MP1584: 3A, 1.5MHz, 28V Step-Down Converter Datasheet,” Rev. 1.0, Monolithic Power Systems, San Jose, CA, 2011.
- [36] M. Rosenthal, P. Kudar, and D. Razansky, “A method for the calibration of wideband *ultrasonic* sensors for optoacoustics,” *Review of Scientific Instruments*, vol. 92, no. 6, p. 064904, Jun. 2021.
- [37] Dealls, “Gaji Programmer di Indonesia 2025 & Perbandingan dengan Luar Negeri,” Dealls, [Online]. Tersedia: <https://dealls.com/pengembangan-karir/gaji-programmer>

- [38] D. Baccarini, “Estimating project cost contingency – A model and exploration of research questions,” in Proc. 20th Annual ARCOM Conf., Heriot-Watt Univ., Edinburgh, UK, Sept. 1–3, 2004, pp. 105–113

