BIBLIOGRAPHY

[1] World Health Organization, “The top 10 causes of death.” Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://www.who.int/en/news-room/fact-sheets/detail/the-top-10-causes-of-death

[2] N. Asatani, T. Kamiya, S. Mabu, dan S. Kido, “Classification of respiratory *sound*s using improved convolutional recurrent neural network,” *Comput. Electr. Eng.*, vol. 94, no. August, hal. 107367, 2021, doi: 10.1016/j.compeleceng.2021.107367.

[3] D. A. E. Putri, N. Qur’aniati, dan L. Ni’mah, “Determinants of Acute Respiratory Infection (ARI) among Children aged 6-35 months in Indonesia,” *Pediomaternal Nurs. J.*, vol. 8, no. 2, hal. 121–128, Agu 2022, doi: 10.20473/pmnj.v8i2.39587.

[4] R. Windi, F. Efendi, A. Qona’ah, Q. E. S. Adnani, K. Ramadhan, dan W. M. Almutairi, “Determinants of Acute Respiratory Infection Among Children Under-Five Years in Indonesia,” *J. Pediatr. Nurs.*, vol. 60, hal. e54–e59, Sep 2021, doi: 10.1016/j.pedn.2021.03.010.

[5] L. Lutpiatina, L. Sulistyorini, H. B. Notobroto, R. P. Raya, R. D. Utama, dan A. Thuraidah, “Multilevel Analysis of Lifestyle and Household Environment for Toddlers With Symptoms of Acute Respiratory Infection (ARI) in Indonesia in 2007, 2012, and 2017,” *Glob. Pediatr. Heal.*, vol. 9, Mar 2022, doi: 10.1177/2333794X221078700.

[6] D. Soehardiman, R. A. Indahati, dan M. Elhidsi, “The Role of Bronchoscopic Cryoablation in Management of Central Airway Obstruction,” *J. Respirologi Indones.*, vol. 41, no. 1, hal. 74–79, Jan 2021, doi: 10.36497/JRI.V41I1.154.

[7] L. D. Mang, F. D. González Martínez, D. Martinez Muñoz, S. García Galán, dan R. Cortina, “Classification of Adventitious *sound*s Combining Cochleogram and *Vision Transformer*s,” *Sensors 2024, Vol. 24,* vol. 24, no. 2, Jan 2024, doi: 10.3390/S24020682.

[8] J. T. Tzeng *et al.*, “Improving the Robustness and Clinical Applicability of Automatic Respiratory *sound* Classification Using *deep learning*–Based Audio Enhancement: Algorithm Development and *validation*,” *Jmir Ai*, vol. 4, no. 1, hal. 1–20, 2025, doi: 10.2196/67239.

[9] M. T. García-Ordás, J. A. Benítez-Andrades, I. García-Rodríguez, C. Benavides, dan H. Alaiz-Moretón, “Detecting respiratory pathologies using convolutional neural networks and variational autoencoders for unbalancing data,” *Sensors (Switzerland)*, vol. 20, no. 4, Feb 2020, doi: 10.3390/s20041214.

[10] Y. A. Kadhim, M. U. Khan, dan A. Mishra, "*deep learning*-Based Computer-Aided Diagnosis (CAD): Applications for Medical Image *dataset*s," *Sensors*, vol. 22, no. 22, Nov 2022, doi: 10.3390/s22228999.

[11] G. Morone *et al.*, "Artificial intelligence in clinical medicine: a state-of-the-art overview of systematic reviews with methodological recommendations for improved reporting," 5 Maret 2025, *Frontiers Media SA*. doi: 10.3389/fdgth.2025.1550731.

[12] G. C. Chang dan Y. F. Lai, "Performance evaluation and enhancement of lung *sound* recognition system in two real noisy environments," *Comput. Methods Programs Biomed.*, vol. 97, no. 2, hal. 141–150, Feb 2010, doi: 10.1016/j.cmpb.2009.06.002.

[13] D. Bardou, K. Zhang, dan S. M. Ahmad, "Lung *sound*s classification using convolutional neural networks," *Artif. Intell. Med.*, vol. 88, hal. 58–69, 2018, doi: 10.1016/j.artmed.2018.04.008.

[14] K. Minami, H. Lu, H. Kim, S. Mabu, Y. Hirano, dan S. Kido, "Automatic Classification of Large-Scale Respiratory *sound dataset* Based on Convolutional Neural Network," *Int. Conf. Control. Autom. Syst.*, vol. 2019-Octob, hal. 804–807, Okt 2019, doi: 10.23919/ICCAS47443.2019.8971689.

[15] P. Stasiakiewicz *et al.*, "Automatic classification of normal and sick patients with *crackle*s using wavelet packet decomposition and support vector machine," *Biomed. Signal Process. Control*, vol. 67, hal. 102521, Mei 2021, doi: 10.1016/j.bspc.2021.102521.

[16] L. Fraiwan, O. Hassanin, M. Fraiwan, B. Khassawneh, A. M. Ibnian, dan M. Alkhodari, "Automatic identification of respiratory diseases from stethoscopic lung *sound* signals using ensemble classifiers," *Biocybern. Biomed. Eng.*, vol. 41, no. 1, hal. 1–14, Jan 2021, doi: 10.1016/j.bbe.2020.11.003.

[17] S. Yu *et al.*, "Advances and Challenges in Respiratory *sound* Analysis: A Technique Review Based on the ICBHI2017 Database," 11 Juli 2025, *Multidisciplinary Digital Publishing Institute*. doi: 10.3390/electronics14142794.

[18] F. Wang, J. Gao, Y. Wang, G. Huang, dan X. Yuan, "*hybrid* Dual-*input* Model for Respiratory *sound* Classification With Mel Spectrogram and Waveform," *IEEE Access*, vol. 13, no. April, hal. 80971–80980, 2025, doi: 10.1109/ACCESS.2025.3566477.

[19] F. Wang, X. Yuan, Y. Liu, dan C. T. Lam, "LungNeXt: A novel lightweight network utilizing enhanced mel-spectrogram for lung *sound* classification," *J. King Saud Univ. - Comput. Inf. Sci.*, vol. 36, no. 8, hal. 102200, Okt 2024, doi: 10.1016/J.JKSUCI.2024.102200.

[20] W. Ariyanti, K. C. Liu, K. Y. Chen, dan Yu-Tsao, "Abnormal Respiratory *sound* Identification Using Audio-Spectrogram *Vision Transformer*," *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, 2023, doi: 10.1109/EMBC40787.2023.10341036.

[21] "ICBHI 2017 Challenge | ICBHI Challenge." Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://bhichallenge.med.auth.gr/ICBHI_2017_Challenge

[22] K. Alomar, H. I. Aysel, dan X. Cai, "Data Augmentation in Classification and Segmentation: A Survey and New Strategies," *J. Imaging*, vol. 9, no. 2, Feb 2023, doi: 10.3390/jimaging9020046.

[23] J. Saldanha, S. Chakraborty, S. Patil, K. Kotecha, S. Kumar, dan A. Nayyar, "Data augmentation using Variational Autoencoders for improvement of respiratory disease classification," *PLoS One*, vol. 17, no. 8 August, hal. e0266467, Agu 2022, doi: 10.1371/journal.pone.0266467.

[24] L. Abbott, M. Marocchi, M. Fynn, Y. Rong, dan S. Nordholm, "Generative *deep learning* and signal processing for data augmentation of cardiac auscultation signals: Improving model robustness using synthetic audio," *Biomed. Signal Process. Control*, vol. 112, hal. 108469, Feb 2026, doi: 10.1016/J.BSPC.2025.108469.

[25] K. Kumar *et al.*, "MelGAN: Generative adversarial networks for conditional waveform synthesis," in *Advances in Neural Information Processing Systems*, Neural information processing systems foundation, Okt 2019. Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://arxiv.org/pdf/1910.06711

[26] D. Wagner, S. P. Bayerl, H. A. C. Maruri, dan T. Bocklet, "Generative Models for Improved Naturalness, Intelligibility, and Voicing of Whispered Speech," in *2022 IEEE Spoken Language Technology Workshop, SLT 2022 - Proceedings*, Institute of Electrical and Electronics Engineers Inc., 2023, hal. 943–948. doi: 10.1109/SLT54892.2023.10022796.

[27] Y. Javeri, N. Jain, dan S. Bagul, "Conditional Generative Adversarial Network with One-Dimensional Self-attention for Speech Synthesis," hal. 219–230, 2021, doi: 10.1007/978-981-16-2248-9_23.

[28] S. Jayalakshmy dan G. F. Sudha, "Conditional GAN based augmentation for predictive modeling of respiratory signals," *Comput. Biol. Med.*, vol. 138, hal. 104930, Nov 2021, doi: 10.1016/j.compbiomed.2021.104930.

[29] E. Glikson dan A. W. Woolley, "Human trust in artificial intelligence: Review of empirical research," *Acad. Manag. Ann.*, vol. 14, no. 2, hal. 627–660, Agu 2020, doi: https://journals.aom.org/doi/10.5465/annals.2018.0057.

[30] A. E. Frazier dan L. Song, “Artificial Intelligence in Landscape Ecology: Recent Advances, Perspectives, and Opportunities,” *Curr. Landsc. Ecol. Reports*, vol. 10, no. 1, hal. 1-, Nov 2024, doi: 10.1007/s40823-024-00103-7.

[31] K. Zaman, K. Li, M. Sah, C. Direkoglu, S. Okada, dan M. Unoki, “*Transformer*s and audio detection tasks: An overview,” *Digit. Signal Process. A Rev. J.*, vol. 158, no. December 2024, hal. 104956, 2025, doi: 10.1016/j.dsp.2024.104956.

[32] M. H. Alsharif, A. H. Kelechi, K. Yahya, dan S. A. Chaudhry, “Machine learning algorithms for smart data analysis in internet of things environment: Taxonomies and research trends,” *Symmetry (Basel).*, vol. 12, no. 1, Jan 2020, doi: 10.3390/SYM12010088.

[33] R. Malhotra dan P. Singh, “Recent advances in *deep learning* models: a systematic literature review,” *Multimed. Tools Appl.*, vol. 82, no. 29, hal. 44977–45060, Apr 2023, doi: 10.1007/s11042-023-15295-z.

[34] A. Vaswani *et al.*, “Attention Is All You Need,” hal. 1, Jun 2017, Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://arxiv.org/pdf/1706.03762

[35] A. Dosovitskiy *et al.*, “AN IMAGE IS WORTH 16X16 WORDS: *Transformer*S FOR IMAGE RECOGNITION AT SCALE,” in *ICLR 2021 - 9th International Conference on Learning Representations*, International Conference on Learning Representations, ICLR, Okt 2021. Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://arxiv.org/pdf/2010.11929

[36] M. D. Shastri *et al.*, “Emerging concepts and directed therapeutics for the management of asthma: regulating the regulators,” 1 Februari 2021, *Inflammopharmacology*. doi: 10.1007/s10787-020-00770-y.

[37] M. Ball dan S. S. Bhimji, *Anatomy, Airway*. StatPearls Publishing, 2018. Diakses: 25 Januari 2026. [Daring]. Tersedia pada: https://www.ncbi.nlm.nih.gov/books/NBK459258/

[38] K. Sari, A. P. Sari, dan A. L. Nurlaili, “Implementation of GRU with Attention Mechanism for Classifying Lung Diseases from Respiratory *sound*s,” *bit-Tech*, vol. 8, no. 2, hal. 2136–2147, 2025, doi: 10.32877/bt.v8i2.3210.

[39] F. Zhou, S. Hu, X. Wan, Z. Lu, dan J. Wu, “Risevi: A Disease Risk Prediction Model Based on *Vision Transformer* Applied to Nursing Homes,” *Electron.*, vol. 12, no. 15, Agu 2023, doi: 10.3390/electronics12153206.

[40] W. He, Y. Yan, J. Ren, R. Bai, dan X. Jiang, “Multi-View Spectrogram *Transformer* for Respiratory *sound* Classification,” dalam ICASSP 2024 - 2024 IEEE International Conference on Acoustics, Speech and Signal

Processing (ICASSP), hal. 8626–8630, 2024, doi: 10.1109/ICASSP48485.2024.10445825.

[41] J. Neto, N. Arrais, T. Vinuto, dan J. Lucena, "Convolution-*Vision Transformer* for Automatic Lung *sound* Classification," dalam 2022 35th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI), hal. 97–102, 2022, doi: 10.1109/SIBGRAPI55357.2022.9991756.

[42] J.-W. Kim, S. Bae, W.-Y. Cho, B. Lee, dan H.-Y. Jung, "Stethoscope-Guided Supervised Contrastive Learning for *cross*-Domain Adaptation on Respiratory *sound* Classification," dalam ICASSP 2024 - 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), hal. 1431–1435, 2024, doi: 10.1109/ICASSP48485.2024.10447734.