

## DAFTAR PUSTAKA

- [1] F. Z. Abdollahi, "Central Auditory Processing Disorder in Children," *Glob. J. Otolaryngol.*, vol. 6, no. 5, Apr 2017, doi: 10.19080/GJO.2017.06.555698.
- [2] F. Grani dkk., "Spatial Sound and Multimodal Interaction in Immersive Environments," dalam *Proceedings of the Audio Mostly 2015 on Interaction With Sound - AM '15*, Thessaloniki, Greece, 2015, hlm. 1–5, doi: 10.1145/2814895.2814919.
- [3] S. S. Utami, R. S. J. Sarwono, dan R. F. Fela, *Kajian Metode Pengukuran Akustik Ruang Studi Kasus d Indonesia*. Yogyakarta: Gadjah Mada University Press, 2016.
- [4] Johns Hopkins University, "What is spatial ability?"
- [5] J. Hong, J. He, B. Lam, R. Gupta, dan W.-S. Gan, "Spatial Audio for Soundscape Design: Recording and Reproduction," *Appl. Sci.*, vol. 7, no. 6, hlm. 627, Jun 2017, doi: 10.3390/app7060627.
- [6] P. Małeck, "Spatial Impulse Response Assessment in Room Acoustics Auralization," *Acta Phys. Pol. A*, vol. 128, no. 1A, hlm. A-17-A-21, Jul 2015, doi: 10.12693/APhysPolA.128.A-17.
- [7] I. Al Rasyid, "EVALUASI AKUSTIK RUANG KELAS BERUNDAK MENGGUNAKAN REKAMAN AMBISONIK," Universitas Gadjah Mada, Yogyakarta, 2019.
- [8] A. Rohman, *Uji Komparasi Reproduksi Binaural dan Ambisonic untuk Evaluasi Akustik Ruang Kelas*, Skripsi. Universitas Gadjah Mada, 2018.
- [9] "ANSI/ASA S12.60-2010/Part 1 American National Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools, Part 1: Permanent Schools."
- [10] "Acoustics — Measurement of room acoustic parameters — Part 1: Performance spaces."
- [11] J. John, A. L. Thampuran, dan B. Premlet, "Objective and subjective evaluation of acoustic comfort in classrooms: A comparative investigation of vernacular and modern school classroom in Kerala," *Appl. Acoust.*, vol. 104, hlm. 33–41, Mar 2016, doi: 10.1016/j.apacoust.2015.09.017.
- [12] A. Vilkaitis, M. Dring, C. Middlicott, B. Wiggins, dan A. Hill, "ROOM ACOUSTICS AND VIRTUAL REALITY: AN IMPLEMENTATION OF AURALISATION AND 360 DEGREE IMAGE TECHNIQUES TO CREATE VIRTUAL REPRESENTATIONS OF SPACES," *Proc. Inst. Acoust.*, vol. 38, hlm. 12, 2016.
- [13] S. Braun dan M. Frank, "Localization of 3D Ambisonic Recordings and Ambisonic Virtual Sources," hlm. 6.
- [14] S. Bertet, J. Daniel, E. Parizet, dan O. Warusfel, "Investigation on Localisation Accuracy for First and Higher Order Ambisonics Reproduced Sound Sources," *Acta Acust. United Acust.*, vol. 99, no. 4, hlm. 642–657, Jul 2013, doi: 10.3813/AAA.918643.

- [15] D. Poirier-Quinot, B. N. Postma, dan B. F. Katz, "Augmented auralization: Complementing auralizations with immersive virtual reality technologies," hlm. 10.
- [16] R. A. Tenenbaum, F. O. Taminato, V. S. G. Melo, dan J. C. B. Torres, "Auralization generated by modeling HRIRs with artificial neural networks and its validation using articulation tests," *Appl. Acoust.*, vol. 130, hlm. 260–269, Jan 2018, doi: 10.1016/j.apacoust.2017.09.025.
- [17] B. N. J. Postma dan B. F. G. Katz, "Perceptive and objective evaluation of calibrated room acoustic simulation auralizations," *J. Acoust. Soc. Am.*, vol. 140, no. 6, hlm. 4326–4337, Des 2016, doi: 10.1121/1.4971422.
- [18] A. Alfadenata, *Penggunaan Virtual Acoustics dalam Uji Subjektif dari Soundscape di Wisdom Park UGM*, Skripsi. Universitas Gadjah Mada, 2018.
- [19] S. M. Tambunan, "HUBUNGAN ANTARA KEMAMPUAN SPASIAL DENGAN PRESTASI BELAJAR MATEMATIKA," *Makara Hum. Behav. Stud. Asia*, vol. 10, no. 1, hlm. 27, Jun 2006, doi: 10.7454/mssh.v10i1.13.
- [20] J. H. Wang dan C. S. Pai, "Subjective and objective verifications of the inverse functions of binaural room impulse responses," *Appl. Acoust.*, vol. 64, no. 12, hlm. 1141–1158, Des 2003, doi: 10.1016/S0003-682X(03)00105-1.
- [21] A. S. Sudarsono, "The effect of sound level on perception of reproduced soundscapes," *Appl. Acoust.*, hlm. 8, 2016.
- [22] S. S. Utami, "CHARACTERIZING THE AUDIBILITY OF SOUND FIELD WITH DIFFUSION IN ARCHITECTURAL SPACES," hlm. 224.
- [23] M. Long, *Architectural acoustics*. Amsterdam ; Boston: Elsevier/Academic Press, 2006.
- [24] T. D. Rossing, Ed., *Springer handbook of acoustics*. New York, N.Y: Springer, 2007.
- [25] L. E. Kinsler, A. R. Frey, A. B. Coppers, dan J. V. Sanders, *Fundamentals of Acoustics*, 4 ed. New York: John Wiley & Sons, Inc, 2000.
- [26] H. Kuttruff, *Room acoustics*, 4th ed. London, [England] ; New York, NY: Spon Press, 2000.
- [27] M. Vorländer, *Auralization: fundamentals of acoustics, modelling, simulation, algorithms and acoustic virtual reality*, 1st ed. Berlin: Springer, 2008.
- [28] U. P. Svensson, "GEOMETRICAL ACOUSTICS ++ (PRELIMINARY VERSION)," hlm. 60.
- [29] J. C. A. Gonzalez, *CATT-Acoustic v8 Room Acoustics Prediction and Desktop Auralization*, 1 ed. Gothenburg Sweden, 2000.
- [30] D. Arteaga, "Introduction to Ambisonics," hlm. 30.
- [31] S. Moreau, J. Daniel, dan S. Bertet, "3D Sound Field Recording with Higher Order Ambisonics – Objective Measurements and Validation of a 4th Order Spherical Microphone," hlm. 25, 2006.
- [32] S. Berge dan N. Barrett, "A new method for B-format to binaural transcoding," hlm. 10.
- [33] F. Z. Abdollahi, "Spatial Hearing," *Glob. J. Otolaryngol.*, vol. 17, no. 2, Agu 2018, doi: 10.19080/GJO.2018.17.555960.
- [34] T. Potisk, "Head-Related Transfer Function," Jan 2015.

- [35] X. Zhong dan B. Xie, "Head-Related Transfer Functions and Virtual Auditory Display," dalam *Soundscape Semiotics - Localisation and Categorisation*, H. Glotin, Ed. InTech, 2014.
- [36] W. György, "HRTFs in Human Localization: Measurement, Spectral Evaluation and Practical Use in Virtual Audio Environment," hlm. 187.
- [37] W. G. Gardner, "3D Audio and Acoustic Environment Modeling," hlm. 9, 1999.
- [38] K. Carlsson, "Objective Localisation Measures in Ambisonic Surround-sound," hlm. 51.
- [39] T. Hirvonen, M. Vaalgamaa, J. Backman, dan M. Karjalainen, "Listening Test Methodology for Headphone Evaluation," hlm. 17, 2003.
- [40] M. Geronazzo, "Immersive Auralization Using Headphones," dalam *Encyclopedia of Computer Graphics and Games*, N. Lee, Ed. Cham: Springer International Publishing, 2018, hlm. 1–5.
- [41] Edwin, "Headphone Open atau Closed," *HeadfoniaStore.com*, 27-Feb-2015. [Daring]. Tersedia pada: <https://www.headfoniastore.com/2015/02/headphone-open-atau-closed/>.
- [42] C. Thomas, "Open back vs closed back headphones: which are right for you?," *SOUNDGUYS*, 20-Apr-2017. [Daring]. Tersedia pada: <https://www.soundguys.com/open-back-vs-closed-back-headphones-12179/>.
- [43] J. Borwick, Ed., *Loud speaker and headphone handbook*, 3rd ed. Oxford; Boston: Focal Press, 2001.
- [44] J. Flynt, "Open Back vs Closed Back Headphones," *3DINSIDER*, Agustus-2018. [Daring]. Tersedia pada: <https://3dinsider.com/open-vs-closed-headphones/>.
- [45] D. Anderson, "Closed Back vs Open Back Headphones – Advantages and Disadvantages," *my audio SOUND*, Mai-2019. [Daring]. Tersedia pada: <https://www.myaudiosound.co.uk/closed-back-vs-open-back-headphones/>.
- [46] "CLOSED BACK VS OPEN BACK HEADPHONES - ADVANTAGES & DISADVANTAGES," *AUDIOPHILE ON*. [Daring]. Tersedia pada: <https://www.audiophileon.com/news/closed-back-vs-open-headphones>.
- [47] S. R. Cherry, J. A. Sorenson, dan M. E. Phelps, "Nuclear Counting Statistics," dalam *Physics in Nuclear Medicine*, Elsevier, 2012, hlm. 125–140.
- [48] "Waves Nx Virtual Mix Room - User Guide," hlm. 28.
- [49] B. Markham, "Leo Beranek and concert hall acoustics," *J. Acoust. Soc. Am.*, vol. 136, no. 4, hlm. 2162–2162, Okt 2014, doi: 10.1121/1.4899823.
- [50] B. A. Siregar, "PARAMETER AKUSTIK RUANG PART 3 (HUBUNGAN PARAMETER OBJEKTIF DENGAN SUBJEKTIF)," *mystudio acoustic artwork*, 09-Sep-2017. [Daring]. Tersedia pada: <https://www.mystudio.co.id/detail-blog-parameter-akustik-ruang-part-3-hubungan-parameter--57.html>.