

## DAFTAR PUSTAKA

- [1] Persatuan Perawat Nasional Indonesia, “Standar Kompetensi Perawat Indonesia Tahun 2005,” Bidang Organisasi PP-PPNI, 2005.
- [2] Keputusan Menteri Kesehatan Republik Indonesia Nomor 1778/MENKES/SK/XII/, “Pedoman Penyelenggaraan Pelayanan Intensive Care Unit (ICU) Rumah Sakit,” 2010.
- [3] Direktorat Kesehatan dan Keteknisian Medik Direktorat Jendral Pelayanan Medik Departemen Kesehatan RI, “Standar Pelayanan Keperawatan di ICU,” Kementerian Kesehatan Republik Indonesia, Jakarta, 2006.
- [4] B. P. Semedi, “Pelayanan ICU di Era Pandemi COVID 19,” *Persi.or.id*. [Daring]. Tersedia pada: [https://persi.or.id/wp-content/uploads/2020/06/materi\\_drbambangps\\_kars120620.pdf](https://persi.or.id/wp-content/uploads/2020/06/materi_drbambangps_kars120620.pdf)
- [5] Y. Rayson, “Penggunaan Eye Tracking dalam Lingkungan Virtual Ruangan Icu Rumah Sakit sebagai Media Pembelajaran bagi Mahasiswa Keperawatan,” Master’s Thesis, Universitas Gadjah Mada, Yogyakarta, 2020.
- [6] RegisteredNursing.org Staff Writers, “ICU Nurse,” *Registerednursing.org*. RegisteredNursing.org, Mar 2017. [Daring]. Tersedia pada: <https://www.registerednursing.org/specialty/icu-nurse/>
- [7] Kementerian Kesehatan Republik Indonesia, “Standar Kurikulum Pelatihan Pelayanan Keperawatan Intensif di Rumah Sakit,” Pusat Pelatihan SDM Kesehatan, Badan PPSDM Kesehatan, Kementerian Kesehatan RI, 2018.
- [8] K. Mathivanan, T. Swathi, B. Ashapriya, dan R. Sruthi, Ed., “A Study of Virtual Reality,” vol. 4(3), no. 2394–9333. *International Journal of Trend in Research and Development*, 2017.
- [9] W. Sherman dan A. Craig, *Understanding Virtual Reality—Interface. First Edition*. San Francisco: Morgan Kaufmann Publishers Inc, 2002.
- [10] Y. A. G. Boas, Ed., *Overview of Virtual Reality Technologies*. Computer Science, 2012.
- [11] C. Spence, M. Obrist, C. Velasco, dan N. Ranasinghe, “Digitizing the chemical senses: Possibilities & pitfalls,” *Int J Hum Comput Stud*, vol. 107, hlm. 62–74, 2017.
- [12] W. Sherman dan A. Craig, *Understanding Virtual Reality (Second Edition)*. San Francisco: The Morgan Kaufmann Series in Computer Graphics, 2018.
- [13] O. Balet, “An interactive system for collaborative virtual prototyping,” Master’s Thesis, Paul Sabat Universityier, 1998.
- [14] N. Vignais, R. Kulpa, S. Brault, D. Presse, dan B. Bideau, “Which technology to investigate visual perception in sport: video vs. virtual reality,” *Hum Mov Sci*, vol. 39, hlm. 12–26, 2015.
- [15] A. Ciprian Firu, A. Ion Tapîrdea, A. Ioana Feier, dan G. Drăghici, “Virtual reality in the automotive field in industry 4.0,” *Mater Today*, vol. 45, hlm. 4177–4182, 2021.
- [16] G. Arrighi, Z. S. See, dan D. Jones, “Victoria Theatre virtual reality: A digital heritage case study and user experience design,” *Digit Appl Archaeol Cult Herit*, vol. 21, no. e00176, hlm. e00176, 2021.



- [17] B. S. Botha, L. de Wet, dan Y. Botma, "Undergraduate nursing student experiences in using immersive virtual reality to manage a patient with a foreign object in the right lung," *Clin Simul Nurs*, vol. 56, hlm. 76–83, 2020.
- [18] M.-S. Bracq, E. Michinov, M. Le Duff, B. Arnaldi, V. Gouranton, dan P. Jannin, "Training situational awareness for scrub nurses: Error recognition in a virtual operating room," *Nurse Educ Pr.*, vol. 53, no. 103056, hlm. 103056, 2021.
- [19] H. Fauzi, "Virtual Auditory Reality Sebagai Piranti Studi Soundscape di Taman Kearifan Universitas Gadjah Mada," Master's Thesis, Universitas Gadjah Mada, Yogyakarta, 2018.
- [20] A. Alfadenata, "Penggunaan Virtual Acoustics dalam Uji Subjektif dari Soundscape di Wisdom Park UGM," Master's Thesis, Universitas Gadjah Mada, Yogyakarta, 2018.
- [21] O. Conner, "The history of qualitative research," *Medium*. Sep 2018. [Daring]. Tersedia pada: <https://oliconner.medium.com/the-history-of-qualitative-research-f6e07c58e439>
- [22] S. Shorey, E. Ang, E. D. Ng, J. Yap, L. S. T. Lau, dan C. K. Chui, "Communication skills training using virtual reality: A descriptive qualitative study," *Nurse Educ Today*, vol. 94, no. 104592, hlm. 104592, 2020.
- [23] V. C. Pandrangi, B. Gaston, N. P. Appelbaum, F. C. Albuquerque Jr, M. M. Levy, dan R. A. Larson, "The application of virtual reality in patient education," *Ann Vasc Surg*, vol. 59, hlm. 184–189, 2019.
- [24] J. Steuer, "Defining virtual reality: Dimensions determining telepresence," *J. Commun.*, vol. 42, no. 4, hlm. 73–93, 1992.
- [25] S. Jayaram, H. I. Connacher, dan K. W. Lyons, "Virtual assembly using virtual reality techniques," *Comput Aided Des*, vol. 29, no. 8, hlm. 575–584, 1997.
- [26] F. Merienne, "Virtual reality: Principles and applications," dalam *Encyclopedia of Computer Science and Technology, Second Edition*, CRC Press, 2016, hlm. 1–11.
- [27] O. Bamodu dan X. M. Ye, "Virtual reality and virtual reality system components," *Adv. Mater. Res.*, vol. 765–767, hlm. 1169–1172, 2013.
- [28] T. H. Dani dan G. Rajit, *Mechanical engineers' handbook, volume 2: Design, instrumentation, and controls*, 4 ed. Nashville, TN: John Wiley & Sons, 2015.
- [29] J. D. Will, W. R. Sherman, dan A. Craig, *Developing virtual reality applications: Foundations of effective design*. Oxford, England: Morgan Kaufmann, 2009.
- [30] G. C. Burdea dan P. Coiffet, *Virtual Reality Technology*, 2 ed. Nashville, TN: John Wiley & Sons, 2003.
- [31] B. Lang, "11 tools for VR painting, modeling, animation, and more – road to VR," *Roadtovr.com*. Jan 2021. [Daring]. Tersedia pada: <https://www.roadtovr.com/vr-painting-drawing-modeling-animation-art-tools-quest-pc/>
- [32] "Top 10 best CAD software for all levels," *3Dnatives.com*. Mar 2019. [Daring]. Tersedia pada: <https://www.3dnatives.com/en/top10-cad-software-180320194/>



- [33] H. Liu, "Application of Virtual Reality Technology in College Physical Education Teaching and Training," *J. Phys. Conf. Ser.*, vol. 1213, no. 042044, 2019.
- [34] D. V. Nguyen, H. T. T. Tran, dan T. C. Thang, "A client-based adaptation framework for 360-degree video streaming," *J Vis Commun Image Represent*, vol. 59, hlm. 231–243, 2019.
- [35] A. Maio, "What is 360 video? How to create an immersive experience," *Studiobinder.com*. Des 2019. [Daring]. Tersedia pada: <https://www.studiobinder.com/blog/what-is-360-video/>
- [36] F. Qian, L. Ji, B. Han, dan V. Gopalakrishnan, "Optimizing 360 video delivery over cellular networks," New York, NY, USA, 2016.
- [37] F. Garza, "With Google's new immersive videos, you can feel what it's like to be a ballet dancer," *Quartz*. Des 2015. [Daring]. Tersedia pada: <https://qz.com/562697/with-googles-new-immersive-videos-you-can-feel-what-its-like-to-be-a-ballet-dancer/>
- [38] R. G. de A. Azevedo, N. Birkbeck, F. De Simone, I. Janatra, B. Adsumilli, dan P. Frossard, "Visual Distortions in 360-degree Videos," 2018.
- [39] B. Micusik, "Two-View Geometry of Omnidirectional Cameras," Master's Thesis, Center for Machine, Perception Department of Cybernetics, Faculty of Electrical Engineering, Czech Technical University, Prague, 2004.
- [40] R. Szeliski, "Image Alignment and Stitching: A Tutorial1," *Microsoft.com*. 2005. [Daring]. Tersedia pada: <https://www.microsoft.com/en-us/research/wp-content/uploads/2004/10/tr-2004-92.pdf>
- [41] S. Knorr, S. Croci, dan A. Smolic, "A modular scheme for artifact detection in stereoscopic Omni-directional images," 2017.
- [42] F. Pearson II, *Map Projections: Theory and Applications*. Boca Raton, Florida: CRC press, 1990.
- [43] T. Stockhammer, "Dynamic adaptive streaming over HTTP –: Standards and design principles," New York, New York, USA, 2011.
- [44] A. Zare, A. Aminlou, dan M. M. Hannuksela, "Virtual reality content streaming: Viewport-dependent projection and tile-based techniques," dalam *2017 IEEE International Conference on Image Processing (ICIP)*, 2017, hlm. 1432–1436.
- [45] A. Unterweger, "Compression artifacts in modern video coding and state-of-the-art means of compensation," dalam *Multimedia Networking and Coding*, IGI Global, 2013, hlm. 28–49.
- [46] K. Zeng, T. Zhao, A. Rehman, dan Z. Wang, "Characterizing perceptual artifacts in compressed video streams," dalam *Human Vision and Electronic Imaging XIX*, 2014.
- [47] R. Patterson, M. D. Winterbottom, dan B. J. Pierce, "Perceptual issues in the use of head-mounted visual displays," *Hum Factors*, vol. 48, no. 3, hlm. 555–573, 2006.
- [48] M. Geng dkk., "Viewing optics for immersive near-eye displays: pupil swim/size and weight/stray light," dalam *Digital Optics for Immersive Displays*, 2018.



- [49] “The beginner’s guide to ambisonics,” *Rode.com*. Sep 2018. [Daring]. Tersedia pada: <https://www.rode.com/blog/all/what-is-ambisonics>
- [50] D. Arteaga, “Introduction to Ambisonics,” Universitas Pompeu Fabra, 2015.
- [51] Paul, “An introduction to ambisonics,” *Creativefieldrecording.com*. Mar 2017. [Daring]. Tersedia pada: <https://www.creativefieldrecording.com/2017/03/01/explorers-of-ambisonics-introduction/>
- [52] “NT-SF1,” *Rode.com*. [Daring]. Tersedia pada: <https://www.rode.com/microphones/ntsf1>
- [53] Waves Audio, “Ambisonics explained: A guide for sound engineers,” *Waves.com*. Waves Audio, Okt 2017. [Daring]. Tersedia pada: <https://www.waves.com/ambisonics-explained-guide-for-sound-engineers>
- [54] “Surround Sound Explained: Part 3,” *Soundonsound.com*. [Daring]. Tersedia pada: <https://www.soundonsound.com/techniques/surround-sound-explained-part-3>
- [55] T. Contributor, “Binaural Sound (Binaural Beats),” *Techtarget.com*. TechTarget, Mar 2019. [Daring]. Tersedia pada: <https://whatis.techtarget.com/definition/binaural-sound>
- [56] C. Pike, T. Parnel, T. Nixon, M. Firth, S. Highfield, dan A. Foster, “Binaural Sound Immersive Spatial Audio for Headphones,” *BBC*, 2020.
- [57] M. Lalwani, “Surrounded by sound: how 3D audio hacks your brain,” *Theverge.com*. Feb 2015. [Daring]. Tersedia pada: <https://www.theverge.com/2015/2/12/8021733/3d-audio-3dio-binaural-immersive-vr-sound-times-square-new-york>
- [58] D. N. L. Howell, “Spatial hearing: The psychophysics of human sound localization 1983,” *J. Sound Vib.*, vol. 99, no. 4, hlm. 595, 1985.
- [59] B. Xie dkk., “Report on research projects on head-related transfer functions and virtual auditory displays in China,” *J. Audio Eng. Soc.*, vol. 61, no. 5, hlm. 314–326, 2013.
- [60] W. G. Gardner dan K. D. Martin, “HRTF measurements of a KEMAR,” *J. Acoust. Soc. Am.*, vol. 97, no. 6, hlm. 3907–3908, 1995.
- [61] P. Majdak, P. Balazs, dan B. Laback, “Multiple Exponential Sweep Method for Fast Measurement of Head-Related Transfer Functions,” *J. Audio Eng. Soc.*, vol. 55, no. 7/8, hlm. 623–637, 2007.
- [62] P. Dietrich, B. Masiero, dan M. Vorländer, “On The Optimization of The Multiple Exponential Sweep Method,” *J. Audio Eng. Soc.*, vol. 61, no. 3, hlm. 113–124, 2013.
- [63] J. Li, B. Wu, D. Yao, dan Y. Yan, “A Mixed-Order Modeling Approach for Head-Related Transfer Function in The Spherical Harmonic Domain,” *Appl. Acoust.*, vol. 176, no. 107828, hlm. 107828, 2021.
- [64] T. Potisk dan D. Svenšek, “Head-Related Transfer Function,” Master’s Thesis, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia, 2015.
- [65] M. Usman, K. Kamal, R. Qayyum, S. Akram, dan S. Mathavan, “3D sound generation using Kinect and HRTF,” dalam *2017 IEEE 2nd International Conference on Signal and Image Processing (ICSIP)*, 2017, hlm. 307–310.



- [66] L. Savioja, J. Huopaniemi, T. Lokki, dan R. Väänänen, "Creating Interactive Virtual Acoustic Environments," *J. Audio Eng. Soc.*, vol. 47, no. 9, hlm. 675–705, 1999.
- [67] J. Wang, M. Liu, X. Wang, T. Liu, dan X. Xie, "Prediction of Head-Related Transfer Function Based On Tensor Completion," *Appl. Acoust.*, vol. 157, no. 106995, hlm. 106995, 2020.
- [68] "Chapter 5.1: Sensation - AllPsych," *Allpsych.com*. Agu 2014. [Daring]. Tersedia pada: [https://allpsych.com/psychology101/sensation\\_perception/sensation/](https://allpsych.com/psychology101/sensation_perception/sensation/)
- [69] [58] Draskovic N, Temperley J, Pavicic J, "Comparative Perception(s) of Consumer Goods Packaging: Croatian Consumers Perspective(s)," *Int. J. Manag. Cases*, vol. 11, no. 2, 2009.
- [70] R. M. Spielman, W. J. Jenkins, dan Lovett, *Psychology Second Edition*. Houston: OpenStax; 2020.: OpenStax, 2020.
- [71] M. Anokhi, "Sensation in Psychology: What is Sensation Psychology?," *Psychologydiscussion.net*. Agu 2018. [Daring]. Tersedia pada: <https://www.psychologydiscussion.net/sensations/sensation-in-psychology-what-is-sensation-psychology/13651>
- [72] O. U. Qiong, "A Brief Introduction to Perception," *pp.*, vol. 15, no. 4, hlm. 2017, 2017.
- [73] G. Richard dan J. Junior, *Communication in the real world: An introduction to communication studies*. New York: University of Minnesota Libraries Publishing, 2016.
- [74] Fiske, S. T., & Taylor, S. E, *Social cognition (2nd ed.)*. New York: Mcgraw-Hill Book Company, 1991.
- [75] S. Coren dan J. S. Girgus, "Principles of Perceptual Organization and Spatial Distortion: The Gestalt Illusions," *J. Exp. Psychol. Hum. Percept. Perform.*, vol. 6, no. 3, hlm. 404–412, 1980.
- [76] M. Chen, Y. Jin, T. Goodall, X. Yu, dan A. C. Bovik, "Study of 3D virtual reality picture quality," *IEEE J Sel Top Signal Process*, vol. 14, no. 1, hlm. 89–102, 2020.
- [77] Ü. Alan dan K. Atalay Kabasakal, "Effect of Number of Response Options on The Psychometric Properties of Likert-Type Scales Used with Children," *Stud. Educ. Eval.*, vol. 66, no. 100895, hlm. 100895, 2020.
- [78] S. Jamieson, "Likert Scales: How to (ab)use Them," *Med. Educ.*, vol. 38, no. 12, hlm. 1217–1218, 2004.
- [79] S. Mcleod, "Likert Scale Definition, Examples and Analysis," *simplypsychology.org*. Sep 2020. [Daring]. Tersedia pada: <https://www.simplypsychology.org/likert-scale.html>
- [80] P. Vonglao, "Application of Fuzzy Logic to Improve The Likert Scale to Measure Latent Variables," *Kasetsart J. Soc. Sci.*, vol. 38, no. 3, hlm. 337–344, 2017.
- [81] K. D. Hopkins, G. V. Glass, dan B. R. Hopkins, *Basic Statistics for The Behavioral Sciences*, vol. 22. Canada: Technometrics, 1980.
- [82] Market Research Guy, "Types of data measurement scales: nominal, ordinal, interval, and ratio," *Mymarketresearchmethods.com*. Nov 2012. [Daring].





- Tersedia pada: <https://www.mymarketresearchmethods.com/types-of-data-nominal-ordinal-interval-ratio/>
- [83] “Interval data: Definition, characteristics and examples,” *Questionpro.com*. Jul 2018. [Daring]. Tersedia pada: <https://www.questionpro.com/blog/interval-data/>
- [84] S. M. S. Kabir, “METHODS OF DATA COLLECTION,” dalam *Basic Guidelines for Research: An Introductory Approach for All Disciplines*, Unknown, 2016, hlm. 201–275.
- [85] A. Hayes, “Descriptive Statistics,” *Investopedia.com*. Agu 2021. [Daring]. Tersedia pada: [https://www.investopedia.com/terms/d/descriptive\\_statistics.asp](https://www.investopedia.com/terms/d/descriptive_statistics.asp)
- [86] “Descriptive statistics,” *Corporatefinanceinstitute.com*. Nov 2020. [Daring]. Tersedia pada: <https://corporatefinanceinstitute.com/resources/knowledge/other/descriptive-statistics/>
- [87] “New Dell G7 15 Gaming Laptop,” *Dell.com*. [Daring]. Tersedia pada: <https://www.dell.com/id/p/g-series-15-7588-laptop/pd>
- [88] G. T. Yuwono, “Review laptop gaming: Dell G7 15 7588 (GTX 1060) • jagat review,” *Jagatreview.com*. Jan 2019. [Daring]. Tersedia pada: <https://www.jagatreview.com/2019/01/review-laptop-gaming-dell-g7-15-7588-gtx-1060/>
- [89] “Buy VIVE Hardware,” *Vive.com*. [Daring]. Tersedia pada: <https://www.vive.com/sea/product/vive/>
- [90] L. Hutchinson, “Ask Ars: I can’t choose between Oculus Rift, HTC Vive, and PlayStation VR!,” *Arstechnica.com*. Mar 2016. [Daring]. Tersedia pada: <https://arstechnica.com/gaming/2016/03/ask-ars-i-cant-choose-between-oculus-rift-htc-vive-and-playstation-vr/>
- [91] B. Lang, “FOVE eye-tracking VR headset gets final specs and pre-order date,” *Roadtovr.com*. Sep 2016. [Daring]. Tersedia pada: <https://www.roadtovr.com/fove-0-eye-tracking-vr-headset-final-specs-pre-order-date/>
- [92] “FOVE Official website,” *Fove-inc.com*. [Daring]. Tersedia pada: <https://fove-inc.com/>
- [93] “What is eye tracking?,” *Tobii.com*. Nov 2019. [Daring]. Tersedia pada: <https://tech.tobii.com/technology/what-is-eye-tracking/>
- [94] Aniwaa team dan S. Noble, “FOVE 0,” *Aniwaa.com*. Apr 2018. [Daring]. Tersedia pada: <https://www.aniwaa.com/product/vr-ar/fove-0/>
- [95] “Product | FOVE Official website,” *Fove-inc.com*. Jun 2020. [Daring]. Tersedia pada: <https://fove-inc.com/product/>
- [96] “ATH-R70x,” *Audio-technica.com*. [Daring]. Tersedia pada: <https://www.audio-technica.com/en-us/ath-r70x>
- [97] “REAPER,” *Reaper.fm*. [Daring]. Tersedia pada: <https://www.reaper.fm/index.php>
- [98] Unity Technologies, “Unity - Unity,” *Unity.com*. [Daring]. Tersedia pada: <https://unity.com/>



- [99] "Google forms: Free online surveys for personal use," *Google.com*. [Daring]. Tersedia pada: <https://www.google.com/forms/about/>
- [100] "Microsoft, office, 365, excel, logo Free Icon," *Icon-icons.com*. [Daring]. Tersedia pada: <https://icon-icons.com/icon/microsoft-office-365-excel-logo/145720>
- [101] Uptodown Technologies SL, "IBM SPSS Statistics Base," *Uptodown.com*. [Daring]. Tersedia pada: <https://ibm-spss-statistics-base.en.uptodown.com/windows>
- [102] "VIVEPORT," *Viveport.com*. [Daring]. Tersedia pada: [https://www.viveport.com/?\\_ga=2.261064653.1340249749.1625735608-1338324823.1619445015&gl=us](https://www.viveport.com/?_ga=2.261064653.1340249749.1625735608-1338324823.1619445015&gl=us)
- [103] "SteamVR on Steam," *Steampowered.com*. [Daring]. Tersedia pada: <https://store.steampowered.com/app/250820/SteamVR/>
- [104] "Download ATK for Reaper - A set of JSFX plugins for the Reaper DAW," *Ambisonictoolkit.net*. [Daring]. Tersedia pada: <https://www.ambisonictoolkit.net/download/reaper/>
- [105] M. Lorenz dkk., "Presence and user experience in a virtual environment under the influence of ethanol: An explorative study," *Sci Rep*, vol. 8, no. 1, 2018.
- [106] "Downloads," *Fove-inc.com*. Sep 2020. [Daring]. Tersedia pada: <https://fove-inc.com/downloads/>
- [107] S. Vollmer, "An Empirical Comparison of Navigation Methods: Intuitive Gestures in VR Painting," Master's Thesis, York University, Toronto, Ontario, Canada, 2018.
- [108] T. Koester, "Open-back vs. Closed-back headphones: What's the difference?," *Sweetwater.com*. Jul 2020. [Daring]. Tersedia pada: <https://www.sweetwater.com/insync/open-back-vs-closed-back-headphones-whats-the-difference/>
- [109] "Open-back vs. Closed-back headphones: Which should you buy?," *Audioadvice.com*. Jan 2019. [Daring]. Tersedia pada: <https://www.audioadvice.com/videos-reviews/open-back-vs-closed-back-headphones/>
- [110] N. M. Sari, "Kajian Persepsi Spasial Stimulus Audial dengan Open-Back dan Closed-Back Headphone," Master's Thesis, Universitas Gadjah Mada, Yogyakarta, 2020.
- [111] tainghehieu, "Housing tai nghe: Nên biết khi mua tai nghe 2020," *Tainghehieu.com*. Mei 2020. [Daring]. Tersedia pada: <https://tainghehieu.com/housing-tai-nghe/>
- [112] "What's the difference between open-back and closed-back headphones? - sound manual," *Soundmanual.com*. Feb 2020. [Daring]. Tersedia pada: <https://www.soundmanual.com/open-back-vs-closed-back-headphones/>
- [113] Arthur, "The complete guide to open-back & closed-back headphones," *Mynewmicrophone.com*. My New Microphone, Mar 2020. [Daring]. Tersedia pada: <https://mynewmicrophone.com/the-complete-guide-to-open-back-closed-back-headphones/>
- [114] F. De Simone, R. G. Azevedo, S. Kim, dan P. Frossard, "Graph-Based Detection of Seams In 360-Degree Images," Taipei, Taiwan, 2019.



- [115] F. De Simone, R. G. de A. Azevedo, S. Kim, dan P. Frossard, "Graph-based detection of seams in 360-degree images," dalam *2019 IEEE International Conference on Image Processing (ICIP)*, 2019, hlm. 3776–3780.
- [116] A. Ortega, P. Frossard, J. Kovacevic, J. M. F. Moura, dan P. Vanderghenst, "Graph signal processing: Overview, challenges, and applications," *Proc IEEE Inst Electr Electron Eng*, vol. 106, no. 5, hlm. 808–828, 2018.
- [117] "Product," *Theta360.com*. [Daring]. Tersedia pada: <https://theta360.com/en/etc/technology.html>
- [118] "How does a 360 degree camera work? RICOH THETA and the equirectangular image format," *Thetalab.ricoh*. Jan 2021. [Daring]. Tersedia pada: <https://www.thetalab.ricoh/en/article/8409/>
- [119] J. J. Boutellier, M. Bordallo-Lopez, O. Silvén, M. Tico, dan M. Vehviläinen, "Creating panoramas on mobile phones," dalam *Computational Imaging V*, 2007.
- [120] H. Grigonis, "Understanding lens distortion in photography (and how to fix it)," *ExpertPhotography*. Nov 2019. [Daring]. Tersedia pada: <https://expertphotography.com/what-is-lens-distortion/>
- [121] R. Hill, "A lens for whole sky photographs: A Lens for Whole Sky Photographs," *Q J R Meteorol Soc*, vol. 50, no. 211, hlm. 227–235, 1924.
- [122] J. J. Kumler dan M. L. Bauer, "Fish-eye lens designs and their relative performance," dalam *Current Developments in Lens Design and Optical Systems Engineering*, 2000.
- [123] M. Lee, H. Kim, dan J. Paik, "Correction of barrel distortion in fisheye lens images using image-based estimation of distortion parameters," *IEEE Access*, vol. 7, hlm. 45723–45733, 2019.
- [124] The Unkelbach Valley Software Works, "Radial Distortion Correction," *Baspssoftware.org*. [Daring]. Tersedia pada: [http://www.baspssoftware.org/radcor\\_files/hs100.htm](http://www.baspssoftware.org/radcor_files/hs100.htm)
- [125] "Apa perbedaan antara distorsi perspektif dan distorsi barrel atau pincushion?," *Qastack.id*. [Daring]. Tersedia pada: <https://qastack.id/photo/85526/what-is-the-difference-between-perspective-distortion-and-barrel-or-pincushion-d>
- [126] N. Mansurov, "What is lens distortion?," *Photographylife.com*. Agu 2013. [Daring]. Tersedia pada: <https://photographylife.com/what-is-distortion>
- [127] "Optical distortions and their corrections on panoramic photography," *Panoramic-photo-guide.com*. [Daring]. Tersedia pada: <https://www.panoramic-photo-guide.com/virtual-tour-360-photography/optical-distortions-virtual-tour.html>
- [128] F. Corrigan, "Remove barrel fisheye effect for perfect aerial photos," *Dronezon.com*. DroneZon, Okt 2019. [Daring]. Tersedia pada: <https://www.dronezon.com/aerial-photo-and-video/aerial-photography/remove-barrel-distortion-fisheye-effect-on-aerial-photos/>
- [129] "Support / FAQ - PTGui Stitching Software," *Ptgui.com*. [Daring]. Tersedia pada: <https://www.ptgui.com/support.html>
- [130] D. Claus dan A. W. Fitzgibbon, "A rational function lens distortion model for general cameras," 2005.





- [131] B. Benligiray dan C. Topal, “Blind rectification of radial distortion by line straightness,” 2016.
- [132] D. Santana-Cedres *dkk.*, “Estimation of the lens distortion model by minimizing a line reprojection error,” *IEEE Sens J*, vol. 17, no. 9, hlm. 2848–2855, 2017.
- [133] L. Alvarez, L. Gómez, dan J. R. Sendra, “An algebraic approach to lens distortion by line rectification,” *J Math Imaging Vis*, vol. 35, no. 1, hlm. 36–50, 2009.
- [134] S. Federici dan S. Borsci, “Usability evaluation : Models , methods , and applications,” *undefined*, 2010.

