



DAFTAR PUSTAKA

- Abdelrahman, Z., Li, M., & Wang, X. (2020). Comparative review of SARS-CoV-2, SARS-CoV, MERS-CoV, and influenza a respiratory viruses. *Frontiers in Immunology*, 11. <https://doi.org/10.3389/FIMMU.2020.552909>
- Alimohamadi, Y., Sepandi, M., Taghdir, M., & Hosamirudsari, H. (2020). Determine the most common clinical symptoms in COVID-19 patients: a systematic review and meta-analysis. *Journal of Preventive Medicine and Hygiene*, 61(3), E304. <https://doi.org/10.15167/2421-4248/JPMH2020.61.3.1530>
- Allendoerfer, K., Aluker, S., Panjwani, G., Proctor, J., Sturtz, D., Vukovic, M., & Chaomei Chen. (2005). Adapting the cognitive walkthrough method to assess the usability of a knowledge domain visualization. *IEEE Symposium on Information Visualization, 2005. INFOVIS 2005.*, 195–202. <https://doi.org/10.1109/INFVIS.2005.1532147>
- Alturkistani, F. M. & Alaboodi, S. S. (2017). An Analytical Model for Availability Evaluation of Cloud Service Provisioning System. *International Journal of Advanced Computer Science and Applications*, 8(6). <https://doi.org/10.14569/IJACSA.2017.080630>
- Andrienko, G., Andrienko, N., Dykes, J., Kraak, M. J., Robinson, A., & Schumann, H. (2016). Geovisual analytics: interactivity, dynamics, and scale. *Cartography and Geographic Information Science*, 43(1), 1–2. <https://doi.org/10.1080/15230406.2016.1095006>
- Andrienko, G., Andrienko, N., Dykes, J., Kraak, M.-J., & Schumann, H. (2014). Geovisual analytics, time to focus on time. *Information Visualization*, 13(3), 187–189. <https://doi.org/10.1177/1473871613487091>
- Andrienko, G., Andrienko, N., Fuchs, G., & Wood, J. (2017). Revealing patterns and trends of mass mobility through spatial and temporal abstraction of origin-destination movement data. *IEEE Transactions on Visualization and Computer Graphics*, 23(9), 2120–2136. <https://doi.org/10.1109/TVCG.2016.2616404>
- Andrienko, G., Andrienko, N., Jankowski, P., Keim, D., Kraak, M. J., MacEachren, A., & Wrobel, S. (2007). Geovisual analytics for spatial decision support: setting the research agenda. *International Journal of Geographical Information Science*, 21(8), 839–857. <https://doi.org/10.1080/13658810701349011>
- Arora, A. S., Rajput, H., & Changotra, R. (2021). Current perspective of COVID-19 spread across South Korea: exploratory data analysis and containment of the pandemic. *Environment, Development and Sustainability*, 23(5), 6553. <https://doi.org/10.1007/S10668-020-00883-Y>
- Badhwar, R. (2021). Windows Subsystem for Linux security risk and mitigation. *The CISO's Next Frontier*, 245–251. https://doi.org/10.1007/978-3-030-75354-2_30
- Bentotahewa, V., Hewage, C., & Williams, J. (2021). Solutions to Big Data Privacy and Security Challenges Associated With COVID-19 Surveillance Systems. *Frontiers in Big Data*, 4, 58. <https://doi.org/10.3389/FDATA.2021.645204/BIBTEX>
- Boman, C. (2019). An exploration of machine learning in libraries. *Library Technology Reports*, 55(1), 21–25. <https://doi.org/10.7152/ACRO.V23I1.14226>
- Carlo, F. de. (2013). Reliability and maintainability in operations management. *Operations Management*. <https://doi.org/10.5772/54161>



- Carroll, L. N., Au, A. P., Detwiler, L. T., Fu, T. Chieh, Painter, I. S., & Abernethy, N. F. (2014). Visualization and analytics tools for infectious disease epidemiology: a systematic review. *Journal of Biomedical Informatics* (Vol. 51, 287–298). Academic Press Inc. <https://doi.org/10.1016/j.jbi.2014.04.006>
- Casella, M., Rajnik, M., Cuomo, A., Dulebohn, S. C., & di Napoli, R. (2022). Features, evaluation, and treatment of coronavirus (COVID-19). *StatPearls*. <https://www.ncbi.nlm.nih.gov/books/NBK554776/>
- Centers for Disease Control. (2020). *How coronavirus spreads*. <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>
- Chen, J., Roth, R. E., Naito, A. T., Lengerich, E. J., & MacEachren, A. M. (2008). Geovisual analytics to enhance spatial scan statistic interpretation: an analysis of U.S. cervical cancer mortality. *International Journal of Health Geographics*, 7, 1–18. <https://doi.org/10.1186/1476-072X-7-57>
- Çöltekin, A., Christophe, S., Robinson, A., & Demšar, U. (2019). Designing geovisual analytics environments and displays with humans in mind. *ISPRS International Journal of Geo-Information* (Vol. 8, Issue 12, 572). MDPI AG. <https://doi.org/10.3390/ijgi8120572>
- Çöltekin, A., Janetzko, H., & Fabrikant, S. (2018). Geovisualization. *Geographic Information Science & Technology Body of Knowledge*, 2018(Q2). <https://doi.org/10.22224/gistbok/2018.2.6>
- Dey, S. K., Rahman, M. M., Siddiqi, U. R., & Howlader, A. (2020). Analyzing the epidemiological outbreak of COVID-19: a visual exploratory data analysis approach. *Journal of Medical Virology*, 92(6), 632–638. <https://doi.org/10.1002/JMV.25743>
- DiBiase, D., MacEachren, A. M., Krygier, J. B., & Reeves, C. (1992). Animation and the role of map design in scientific visualization. *Cartography and Geographic Information Systems*, 19(4), 201–214. <https://doi.org/10.1559/152304092783721295>
- Dinas Kesehatan D.I. Yogyakarta. (2018). *Mengenal penyakit infeksi emerging (PIE)*. dinkes.jogjaprov.go.id. <https://www.dinkes.jogjaprov.go.id/berita/detail/penyakit-infeksi-emerging-reemerging-menular-wabah-klb-pie-ptm-mengenal-penyakit-infeksi-emerging-pie>
- Findlater, A. & Bogoch, I. I. (2018). Human mobility and the global spread of infectious diseases: a focus on air travel. *Trends in Parasitology*, 34(9), 772. <https://doi.org/10.1016/J.PT.2018.07.004>
- García-Chapeton, G. A., Ostermann, F. O., de By, R. A., & Kraak, M. J. (2018). Enabling collaborative geovisual analytics: systems, techniques, and research challenges. *Transactions in GIS*, 22(3), 640–663. <https://doi.org/10.1111/TGIS.12344>
- Hale, T., Angrist, N., Goldszmidt, R., Kira, B., Petherick, A., Phillips, T., Webster, S., Cameron-Blake, E., Hallas, L., Majumdar, S., & Tatlow, H. (2021). A global panel database of pandemic policies (Oxford COVID-19 Government Response Tracker). *Nature Human Behaviour*, 5(4), 529–538. <https://doi.org/10.1038/S41562-021-01079-8>
- Hardisty, F. & Robinson, A. C. (2011). The geoviz toolkit: using component-oriented coordination methods for geographic visualization and analysis. *International Journal of Geographical Information Science*, 25(2), 191–210. <https://doi.org/10.1080/13658810903214203>



- Hussein, M. R., Shams, A. bin, Apu, E. H., Mamun, K. A. al, & Rahman, M. S. (2020). *Digital surveillance systems for tracing COVID-19: privacy and security challenges with recommendations*. <http://arxiv.org/abs/2007.13182>
- ICA Commission. (2020). *Visual analytics making sense of space and time*. <http://viz.icaci.org/>
- Islam, S., Islam, T., & Islam, M. R. (2022). New coronavirus variants are creating more challenges to global healthcare system: a brief report on the current knowledge. *Clinical Pathology*, 15. <https://doi.org/10.1177/2632010X221075584>
- Kamel Boulos, M. N. & Geraghty, E. M. (2020). Geographical tracking and mapping of coronavirus disease COVID-19/severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) epidemic and associated events around the world: how 21st century GIS technologies are supporting the global fight against outbreaks and epidemics. *International Journal of Health Geographics*, 19(1). <https://doi.org/10.1186/S12942-020-00202-8>
- Kamel Boulos, M. N., Viangteeravat, T., Anyanwu, M. N., Ra Nagisetty, V., & Kuscu, E. (2011). Web GIS in practice IX: a demonstration of geospatial visual analytics using Microsoft Live Labs Pivot technology and WHO mortality data. *International Journal of Health Geographics* (Vol. 10,19). <https://doi.org/10.1186/1476-072X-10-19>
- Keim, D., Andrienko, G., Fekete, J. D., Görg, C., Kohlhammer, J., & Melançon, G. (2008). Visual analytics: definition, process, and challenges. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 4950 LNCS, 154–175. https://doi.org/10.1007/978-3-540-70956-5_7
- Keim, D. & Zhang, L. (2011). Solving problems with visual analytics. *Proceedings of the 11th International Conference on Knowledge Management and Knowledge Technologies - i-KNOW '11*, 1. <https://doi.org/10.1145/2024288.2024290>
- Kementerian Kesehatan RI. (2019). Mengenal penyakit infeksi emerging. COVID-19. <https://covid19.kemkes.go.id/pengantar-infeksi-emerging/#.XqWxA2gza00>
- Kementerian Kesehatan RI. (2018). Infeksi emerging. <https://infeksiemerging.kemkes.go.id/mengenal-penyakit-infeksi-emerging>
- Kementerian Kesehatan RI. (2020). Pedoman pencegahan dan pengendalian coronavirus disease (COVID-19). <https://covid19.kemkes.go.id/protokol-covid-19/kmk-no-hk-01-07-menkes-413-2020-ttg-pedoman-pencegahan-dan-pengendalian-covid-19>
- Khare, S., Gurry, C., Freitas, L., Schultz, M. B., Bach, G., Diallo, A., Akite, N., Ho, J., Lee, R. T., Yeo, W., Team, G. C. C., Maurer-Stroh, S., Khare, S., Gurry, C., Freitas, L., Schultz, M. B., Bach, G., Diallo, A., Akite, N., Maurer-Stroh, S. (2021). GISAID's role in pandemic response. *China CDC Weekly*, 2021, Vol. 3, Issue 49, Pages: 1049-1051, 3(49), 1049–1051. <https://doi.org/10.46234/CCDCW2021.255>
- Kraus, S., Breier, M., Lim, W. M., Dabić, M., Kumar, S., Kanbach, D., Mukherjee, D., Corvello, V., Piñeiro-Chousa, J., Liguori, E., Palacios-Marqués, D., Schiavone, F., Ferraris, A., Fernandes, C., & Ferreira, J. J. (2022). Literature reviews as independent studies: guidelines for academic practice. *Review of Managerial Science*, 16(8), 2577–2595. <https://doi.org/10.1007/S11846-022-00588-8/FIGURES/3>



- Liu, X., Alharbi, M. S., Chen, J., Diehl, A., Rees, D., Firat, E. E., Wang, Q., & Laramee, R. S. (2022). Visualization resources: a survey. *Information Visualization*, 2023(1), 147387162211269. <https://doi.org/10.1177/14738716221126992>
- Lucieer, A. (2004). *Uncertainties in Segmentation and Their Visualisation*. PhD Thesis Utrecht University, ITC Dissertation. 113, Enschede, 174 p.
https://webapps.itc.utwente.nl/librarywww/Papers_2004/phd/lucieer.pdf
- MacEachren, A. M. (1994). Visualization in modern cartography: setting the agenda. *Modern Cartography Series* (Vol. 2, Issue C, 1–12). Academic Press.
<https://doi.org/10.1016/B978-0-08-042415-6.50008-9>
- MacEachren, A. M. & Kraak, M. J. (1997a). Exploratory cartographic visualization: advancing the agenda. *Computers & Geosciences*, 23(4), 335–343.
[https://doi.org/10.1016/S0098-3004\(97\)00018-6](https://doi.org/10.1016/S0098-3004(97)00018-6)
- MacEachren, A. M. & Kraak, M.-J. (1997b). Exploratory cartographic visualization: advancing the agenda. *Computers & Geosciences*, 23(4), 335–343.
[https://doi.org/10.1016/S0098-3004\(97\)00018-6](https://doi.org/10.1016/S0098-3004(97)00018-6)
- MNDC China. (2020). *Novel coronavirus national science and technology resource service system*. Chinese Center for Disease Control and Prevention Specific.
<http://nmdc.cn/nCov/en>
- Olusegun Are, S., Iwada Ekum, M., & Eduard Monsalve Mera, A. (2020). COVID-19 pandemic data visualization with moment about midpoint: exploratory and expository analysis. *Asian Journal of Probability and Statistics*, 8(4), 15–37.
<https://doi.org/10.9734/AJPAS/2020/V8I430212>
- Perhimpunan Dokter Paru Indonesia (PDPI). (2020). *Pneumonia Covid-19. diagnosis & penatalaksanaan di Indonesia*. <https://klikpdpi.com/bukupdpi/wp-content/uploads/2020/04/Buku-Pneumonia-COVID-19-PDPI-2020.pdf>
- Polonsky, J. A., Baidjoe, A., Kamvar, Z. N., Cori, A., Durski, K., John Edmunds, W., Eggo, R. M., Funk, S., Kaiser, L., Keating, P., le Polain De Waroux, O., Marks, M., Moraga, P., Morgan, O., Nouvellet, P., Ratnayake, R., Roberts, C. H., Whitworth, J., & Jombart, T. (2019). Outbreak analytics: a developing data science for informing the response to emerging pathogens. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 374(1776).
<https://doi.org/10.1098/RSTB.2018.0276>
- Pomeransky, A. A. & Khriplovich, I. B. (1999). Equations of motion of spinning relativistic particle in external fields. *Surveys in High Energy Physics*, 14(1–3), 145–173. <https://doi.org/10.1080/01422419908228843>
- Proulx, P., Tandon, S., Bodnar, A., Schroh, D., Harper, R., & Wright, W. (2006). Avian flu case study with nSpace and GeoTime. *2006 IEEE Symposium on Visual Analytics and Technology*, 27–34. <https://doi.org/10.1109/VAST.2006.261427>
- Purwanto, P., Utaya, S., Handoyo, B., Bachri, S., Astuti, I. S., Sastro, K., Utomo, B., & Aldianto, Y. E. (2021). Spatiotemporal analysis of COVID-19 spread with emerging hotspot analysis and space-time cube models in East Java, Indonesia. *ISPRS International Journal of Geo-Information 2021, Vol. 10, Page 133, 10(3)*, 133.
<https://doi.org/10.3390/IJGI10030133>
- Ramsey, J. O. & Wiley, D. (1978). Book reviews: Exploratory data analysis John W. Tukey reading, mass: Addison-Wesley. *Applied Psychological Measurement*, 2(1), 151–155. <https://doi.org/10.1177/014662167800200115>
- Rhyne, T. M., MacEachren, A. M., Gahegan, M., Pike, W., Brewer, I., Cai, G., Lengerich, E., & Hardisty, F. (2004). Geovisualization for knowledge



- construction and decision support. *IEEE Computer Graphics and Applications*, 24(1), 13. <https://doi.org/10.1109/MCG.2004.1255801>
- Robinson, A. C. (2017). Geovisual analytics. *Geographic Information Science & Technology Body of Knowledge*, 2017(Q3).
<https://doi.org/10.22224/GISTBOK/2017.3.6>
- Robinson, A. C. (2011a). Highlighting in geovisualization. *Cartography and Geographic Information Science*, 38(4), 373–383.
<https://doi.org/10.1559/15230406384373>.
- Robinson, A. C. (2011b). Supporting synthesis in geovisualization. *International Journal of Geographical Information Science*, 25(2), 211–227.
<https://doi.org/10.1080/13658810903430916>
- Robinson, A. C., Demšar, U., Moore, A. B., Buckley, A., Jiang, B., Field, K., Kraak, M.-J., Camboim, S. P., & Sluter, C. R. (2017a). Geospatial big data and cartography: research challenges and opportunities for making maps that matter. *International Journal of Cartography*, 3(sup1), 32–60.
<https://doi.org/10.1080/23729333.2016.1278151>
- Robinson, A. C., Demšar, U., Moore, A. B., Buckley, A., Jiang, B., Field, K., Kraak, M.-J., Camboim, S. P., & Sluter, C. R. (2017b). Geospatial big data and cartography: research challenges and opportunities for making maps that matter. *International Journal of Cartography*, 3(sup1), 32–60.
<https://doi.org/10.1080/23729333.2016.1278151>
- Shekhar, S., Evans, M. R., Kang, J. M., & Mohan, P. (2011). Identifying patterns in spatial information: a survey of methods. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*. <https://doi.org/10.1002/widm.25>
- Shuja, J., Alanazi, E., Alasmary, W., & Alashaikh, A. (2021). COVID-19 open-source data sets: a comprehensive survey. *Applied Intelligence*, 51(3), 1296–1325.
<https://doi.org/10.1007/s10489-020-01862-6>
- Singhal, M. (2014). Study of advances and challenges in geovisual analytics. *International Journal of Research in Engineering and Technology*, 03(26), 52–55. <https://doi.org/10.15623/ijret.2014.0326011>
- So, M. K. P., Tiwari, A., Chu, A. M. Y., Tsang, J. T. Y., & Chan, J. N. L. (2020). Visualizing COVID-19 pandemic risk through network connectedness. *International Journal of Infectious Diseases*, 96, 558.
<https://doi.org/10.1016/J.IJID.2020.05.011>
- Sopan, A., Noh, A. S.-I., Karol, S., Rosenfeld, P., Lee, G., & Shneiderman, B. (2012). Community health map: a geospatial and multivariate data visualization tool for public health datasets. *Government Information Quarterly*, 29(2), 223–234.
<https://doi.org/10.1016/j.giq.2011.10.002>
- Stein, L. Y., & Nicol, G. W. (2011). Grand challenges in terrestrial microbiology. *Frontiers in Microbiology*, 2(JAN), 184.
<https://doi.org/10.3389/fmicb.2011.00006>
- Thomas, J. J. & Cook, K. A. (2006). A visual analytics agenda. *IEEE Computer Graphics and Applications*, 26(1), 10–13. <https://doi.org/10.1109/mcg.2006.5>
- Tomaszewski, B. (2014). Geographic Information Systems (GIS) for disaster management. *Geographic Information Systems (GIS) for Disaster Management*. Routledge. <https://doi.org/10.1201/b17851>
- Walsh, E. I., Chung, Y., Cherbuin, N., & Salvador-Carulla, L. (2020). Experts' perceptions on the use of visual analytics for complex mental healthcare planning: an exploratory study. *BMC Medical Research Methodology*, 20(1), 1–9.
<https://doi.org/10.1186/S12874-020-00986-0/TABLES/2>



- World Health Organization (WHO). (2020). *Coronavirus*. https://www.who.int/health-topics/coronavirus#tab=tab_1
- World Health Organization (WHO). (2021). *Tracking SARS-CoV-2 variants*. <https://www.who.int/activities/tracking-SARS-CoV-2-variants>
- World Health Organization (WHO). (2022). *COVID-19 situation updates for week 51 (18–24 December 2022) epidemic and pandemic diseases*. <https://www.emro.who.int/pandemic-epidemic-diseases/covid-19/covid-19-situation-updates-for-week-51-1824-december-2022.html>
- World Wide Web Consortium (W3C). (2014). *Web services architecture*. Web services architecture W3C working group note. <https://www.w3.org/TR/ws-arch/>
- Wu, F., Zhao, S., Yu, B., Chen, Y. M., Wang, W., Song, Z. G., Hu, Y., Tao, Z. W., Tian, J. H., Pei, Y. Y., Yuan, M. L., Zhang, Y. L., Dai, F. H., Liu, Y., Wang, Q. M., Zheng, J. J., Xu, L., Holmes, E. C., & Zhang, Y. Z. (2020). A new coronavirus associated with human respiratory disease in China. *Nature* 2020 579:7798, 579(7798), 265–269. <https://doi.org/10.1038/s41586-020-2008-3>
- Xiang, D., & Cai, W. (2021). Privacy protection and secondary use of health data: strategies and methods. *BioMed Research International*, 2021. <https://doi.org/10.1155/2021/6967166>
- Xu, B., Kraemer, M. U. G., Gutierrez, B., Mekaru, S., Sewalk, K., Loskill, A., Wang, L., Cohn, E., Hill, S., Zarebski, A., Li, S., Wu, C. H., Hulland, E., Morgan, J., Scarpino, S., Brownstein, J., Pybus, O., Pigott, D., & Kraemer, M. (2020). Open access epidemiological data from the COVID-19 outbreak. *The Lancet. Infectious Diseases*, 20(5), 534. [https://doi.org/10.1016/S1473-3099\(20\)30119-5](https://doi.org/10.1016/S1473-3099(20)30119-5)
- Zander, T., Öllinger, M., & Volz, K. G. (2016). Intuition and insight: two processes that build on each other or fundamentally differ? *Frontiers in Psychology*, 7(SEP). <https://doi.org/10.3389/fpsyg.2016.01395>
- Zoller, M., Irlbeck, M., & Zwissler, B. (2020). Coronavirus disease 2019. *Der Anaesthetist*, 69(4), 223–224. <https://doi.org/10.1007/s00101-020-00761-2>