

DAFTAR PUSTAKA

- Abidin, H. Z., Andreas, H., Gumilar, I., Sidiq, T. P., & Gamal, M. (2015). "Environmental Impacts of Land Subsidence in Urban Areas of Indonesia". Sofia, Bulgaria: FIG Working Week.
- Ahmed, S., El-Shazly, A., Abed, F., & Ahmed, W. (2022). "The Influence of Flight Direction and Camera Orientation on the Quality Products of UAV-Based SfM-Photogrammetry". *Applied Sciences* (Switzerland), 12(20). <https://doi.org/10.3390/app122010492>.
- Aronoff, S. (1989). "Geographic Information Systems : a Management Perspective". Ottawa, Canada.
- Badan Nasional Penanggulangan Bencana (BNPB). (n.d.). Sejarah BNPB - BNPB. Diambil 21 Februari 2023, dari <https://www.bnpb.go.id/sejarah-bnpb>.
- Bello, O. D. (2014). "Handbook for Disaster Assessment" (Vol. 1999).
- Berryman, K. (2006). "Review of Tsunami Hazard and Risk in New Zealand". Institute of Geological and Nuclear Sciences, (September), 139.
- Berz, G., Kron, W., Loster, T., Rauch, E., Schimetschek, J., Schmieder, J., ... Wirtz, A. (2001). "World Map of Natural Hazards - a Global View of the Distribution and Intensity of Significant Exposures". *Natural Hazards*, 23(2-3), 443-465. <https://doi.org/10.1023/A:1011193724026>.
- BNBP. (2012). Peraturan Kepala Badan Nasional Penanggulangan Bencana Nomor 02 Tahun 2012 tentang Pedoman Umum Pengkajian Risiko Bencana.
- BNPB. (2019). Modul Teknis Penyusunan Kajian Risiko Bencana Tsunami. Direktorat Pengurangan Risiko Bencana BNPB, 1, 1-101.
- Bott, L. M., Schöne, T., Illigner, J., Haghshenas Haghighi, M., Gisevius, K., & Braun, B. (2021). "Land Subsidence in Jakarta and Semarang Bay – the Relationship between Physical Processes, Risk Perception, and Household Adaptation". *Ocean and Coastal Management*, 211. <https://doi.org/10.1016/j.ocecoaman.2021.105775>.
- Cahyono, B. K. & Sutanta, H. (2009). Perbandingan Beberapa Metode Interpolasi untuk Pembentukan Digital Terrain Model dari Peta Topografi Skala Besar. In Repositori Universitas Diponegoro. Diponegoro University Institutional Repository.
- Carter, W. N. (1992). "Disaster Management : a Disaster Manager's Handbook". Asian Development Bank.
- Chaudhary, S., Dhanya, C. T., & Vinnarasi, R. (2017). "Dry and Wet Spell Variability During Monsoon in Gauge-Based Gridded Daily Precipitation Datasets over India". *Journal of Hydrology*, 546, 204-218. <https://doi.org/10.1016/j.jhydrol.2017.01.023>.
- Chaussard, E., Amelung, F., & Abidin, H. Z. (2011). "Sinking Cities in Indonesia: Space-Geodetic Evidence of the Rates and Spatial Distribution of Land Subsidence". in *Fringe 2011 Workshop*. Frascati, Italy.
- Church, J. A., Clark, P. U., Gregory, J. M., Jevrejeva, S., Levermann, A., Merrifield, M. A., ... Unnikrishnan, A. S. (2013). "Sea Level Change. in Climate Change 2013: the Physical Science Basis". Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y.

- Xia,. Cambridge, United Kingdom and New York, NY, USA.: Cambridge University Press.
- Dong, P. & Chen, Q. (2018). "LiDAR Remote Sensing and Application". (Q. Weng, Ed.) (Vol. 59). Boca Raton, Florida: CRC Press Taylor & Francis Group.
- Egaputra, A. A., Ismunarti, D. H., & Pranowo, W. S. (2022). Inventariasi Kejadian Banjir Rob Kota Semarang Periode 2012-2020. *Indonesian Journal of Oceanography*, 04, 29–40.
- Erlani, R. & Nugrahandika, W. H. (2019). Ketangguhan Kota Semarang dalam Menghadapi Bencana Banjir Pasang Air Laut (Rob). *Journal of Regional and Rural Development Planning*, 3(1), 47. <https://doi.org/10.29244/jp2wd.2019.3.1.47-63>.
- Funk, C., Peterson, P., Landsfeld, M., Pedreros, D., Verdin, J., Shukla, S., ... Michaelsen, J. (2015). "The Climate Hazards Infrared Precipitation with Stations - a New Environmental Record for Monitoring Extremes". *Scientific Data*, 2, 1–21. <https://doi.org/10.1038/sdata.2015.66>.
- Giupponi, C., Mojtahed, V., Gain, A., & Biscaro, C. (2015). "Integrated Risk Assessment of Water-Related Disasters". <https://doi.org/10.1016/B978-0-12-394846-5.00006-0>.
- Guth, P. L., Van Niekerk, A., Grohmann, C. H., Muller, J. P., Hawker, L., Florinsky, I. V., ... Strobl, P. (2021). "Digital Elevation Models: Terminology and Definitions". *Remote Sensing*, 13(18), 1–19. <https://doi.org/10.3390/rs13183581>.
- Hanif, M., Graha Putra, B., Atthori Hidayat, R., Ramadhan, R., Shafrina Wan Moh Jaafar, W., Hermon, D., & Suhana Mokhtar, E. (2021). "Impact of Coastal Flood on Building, Infrastructure, and Community Adaptation in Bukit Bestari Tanjungpinang", 21(2).
- Harijoko, A., Puspitasari, D., Prabaningrum, I., Prastika, K. P., & Wijayanti, N. (2021). Manajemen Penanggulangan Bencana dan Pengurangan Risiko Bencana di Indonesia. (A. B. Sekaranom & I. M. Susmayadi, Ed.). Yogyakarta: Gadjah Mada University Press.
- Huisman, O. & Rolf, A. (2009). "Principles of Geographic Information Systems". (O. Huisman & R. A., Ed.), The International Institute for Geo-Information Science and Earth Observation (ITC). Enschede, the Netherlands: the International Institute for Geo-Information Science and Earth Observation (ITC).
- Huizinga, J., de Moel, H., & Szewczyk, W. (2017). "Global Flood Depth-damage Functions". Joint Research Centre (JRC). <https://doi.org/10.2760/16510>.
- Human Initiative. (2022). Situation Report Banjir Rob Semarang dan Sekitarnya.
- Iheaturu, C. J., Ayodele, E. G., & Okolie, C. J. (2020). "An Assessment of the Accuracy of Structure-From-Motion (SfM) Photogrammetry for 3D Terrain Mapping". *Geomatics, Land Management and Landscape*, 2, 65–82. <https://doi.org/https://doi.org/10.15576/gll/2020.2.65>.
- Ikechukwu, M. N., Ebinne, E., Idorenyin, U., & Raphael, N. I. (2017). "Accuracy Assessment and Comparative Analysis of IDW, Spline and Kriging in Spatial Interpolation of Landform (Topography): an Experimental Study". *Journal of Geographic Information System*, 09(03), 354–371. <https://doi.org/10.4236/jgis.2017.93022>.
- Imam, M. N., Latief, R., & Rasyidi, E. S. (2022). Arah Mitigasi Bencana Banjir Rob di Kawasan Pesisir Kecamatan Balusu Kabupaten Barru. *Journal of Urban*

- Planning Studies, 2(3), 258–264.
- Indarto & Arif, F. (2013). *Konsep Dasar Analisis Spasial*. Jakarta: Andi Publisher.
- IPCC. (2007). “Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change”. (P. Martin, C. Osvaldo, P. Jean, van der L. Paul, & H. Clair, Ed.). Cambridge, UK: Cambridge University Press.
- Jeon, H., Eem, S. H., & Park, J. (2018). “Flood Damage Assessment in Building Scale Caused by the Coastal Inundation Height at Haeundae Beach, Busan”. in *Journal of Coastal Research* (Vol. 85, hal. 1561–1565). Coastal Education Research Foundation Inc. <https://doi.org/10.2112/SI85-313.1>.
- Jiang, S., Jiang, C., & Jiang, W. (2020). “Efficient Structure from Motion for Large-scale UAV Images: a Review and a Comparison of SfM Tools”. *ISPRS Journal of Photogrammetry and Remote Sensing*, 167(April), 230–251. <https://doi.org/10.1016/j.isprsjprs.2020.04.016>.
- Johnson, R. (2000). “GIS Technology for Disasters and Emergency Management”. an ESRI White Paper.
- Jonkman, S. N. (2007b). “Loss of Life Estimation in Flood Risk Assessment, Theory and Applications”. Delft: Technische Universiteit Delft.
- Karondia, L. A., Handoko, E. Y., & Hapsari, H. (2019). “3D Modelling Analysis of Sea-Level Rise Impact in Semarang, Indonesia”. *IOP Conference Series: Earth and Environmental Science*, 389(1). <https://doi.org/10.1088/1755-1315/389/1/012005>.
- Khouni, I., Louhichi, G., & Ghrabi, A. (2021). “Use of GIS based Inverse Distance Weighted Interpolation to Assess Surface Water Quality: Case of Wadi El Bey, Tunisia”. *Environmental Technology and Innovation*, 24, 101892. <https://doi.org/10.1016/j.eti.2021.101892>.
- Kuehn, F., Albiol, D., Cooksley, G., Duro, J., Granda, J., Haas, S., ... Murdohardono, D. (2010). “Detection of Land Subsidence in Semarang, Indonesia, using Stable Points Network (SPN) Technique”. *Environmental Earth Sciences*, 60(5), 909–921. <https://doi.org/10.1007/s12665-009-0227-x>.
- Kurniawan, L. (2003). *Kajian Banjir Rob di Kota Semarang (Kasus Dadapsari)*. Jurnal ALAMI: Jurnal Air, Lahan, Lingkungan, dan Mitigasi Bencana BPPT, 8, 6.
- Li, Z., Wang, K., Ma, H., & Wu, Y. (2018). “An Adjusted Inverse Distance Weighted Spatial Interpolation Method”, 65(Cimns), 128–132. <https://doi.org/10.2991/cimns-18.2018.29>.
- Marfai, M. A. (2014). *Banjir Pesisir Kajian Dinamika Pesisir Semarang*. Yogyakarta, Indonesia: Gadjah Mada University Press.
- Marfai, M. A. & King, L. (2008a). “Potential Vulnerability Implications of Coastal Inundation Due to Sea Level Rise for the Coastal Zone of Semarang City, Indonesia”. *Environmental Geology*, 54(6), 1235–1245. <https://doi.org/10.1007/s00254-007-0906-4>.
- Marfai, M. A. & King, L. (2008). “Tidal Inundation Mapping under Enhanced Land Subsidence in Semarang, Central Java Indonesia”. *Natural Hazards*, 44(1), 93–109. <https://doi.org/10.1007/s11069-007-9144-z>.
- Merz, B., Kreibich, H., Schwarze, R., & Thieken, A. (2010). “Assessment of Economic Flood Damage”. *Natural Hazards and Earth System Science*, 10(8), 1697–1724. <https://doi.org/10.5194/nhess-10-1697-2010>.

- Musashi, J. P., Pramoedyo, H., & Fitriani, R. (2018). "Comparison of Inverse Distance Weighted and Natural Neighbor Interpolation Method at Air Temperature Data in Malang Region". *CAUCHY: Jurnal Matematika Murni dan Aplikasi*, 5(2), 48–54. <https://doi.org/10.18860/ca.v5i2.4722>.
- Papakonstantinou, A., Topouzelis, K., & Pavlogeorgatos, G. (2016). "Coastline Zones Identification And 3D Coastal Mapping using UAV Spatial Data". *ISPRS International Journal of Geo-Information*, 5(6), 1–14. <https://doi.org/10.3390/ijgi5060075>.
- Peraturan Presiden Republik Indonesia Nomor 29 Tahun 2021 tentang Perubahan Atas Peratiran Presiden Nomor 1 Tahun 2019 Tentang Badan Nasional Penanggulangan Bencana (2021). Republik Indonesia.
- Peraturan Presiden Republik Indonesia Nomor 8 Tahun 2008 Tentang Badan Nasional Penanggulangan Bencana (2008). Republik Indonesia.
- Prasad, A. S. & Francescutti, L. H. (2016b). *Natural Disasters*. "International Encyclopedia of Public Health (Second Edition, Vol. 5)". Elsevier. <https://doi.org/10.1016/B978-0-12-803678-5.00519-1>.
- Prime, T., Brown, J. M., & Plater, A. J. (2015). "Physical and Economic Impacts of Sea-Level Rise and Low Probability Flooding Events on Coastal Communities". *PLoS ONE*, 10(2). <https://doi.org/10.1371/journal.pone.0117030>.
- Pujiastuti, R. (2015). Pengaruh Land Subsidence terhadap Genangan Banjir dan Rob di Semarang Timur. Juli (Vol. 21).
- Pusat Jaring Kontrol Geodesi dan Geodinamika (PJKGG). (2022). Titik Kontrol Geodesi (TKG) Stasiun Pasang Surut SMRG Tanjung Mas. SRGI BIG. Diambil dari <https://srgi.big.go.id/tides/smrgr>.
- Republika. (2018). Dermaga Terminal Samudera Pelabuhan Tanjung Emas Ditinggikan. *Republika Online*. Diambil 23 Januari 2023, dari <https://www.republika.co.id/berita/p70gt8399/dermaga-terminal-samudera-pelabuhan-tanjung-emas-ditinggikan>.
- Schenk, T. (2005). "Introduction to Photogrammetry". Department of Civil and Environmental Engineering and Geodetic Science, The Ohio State University. Columbus, Ohio: Department of Civil and Environmental Engineering and Geodetic Science, the Ohio State University.
- Semarangpos. (2018). Dermaga Tanjung Emas Telan Investasi Rp280 M | News Semarangpos.com. Diambil 23 Januari 2023, dari <https://www.semarangpos.com/dermaga-tanjung-emas-telan-investasi-rp280-m-909924>.
- Setiyono, H., Helmi, M., & Prasetyawan, I. B. (2020). Perubahan Morfologi Muara Sungai di Pesisir Kota Semarang dalam Penanggulangan Banjir dan Rob. *Indonesian Journal of Oceanography*, 02.
- Singh, V. P. (1996). "Hydrology of Distasters". *Hydrology and Water Resources of Africa*. Baton Rouge, U.S.A.: Kluwer Academic Publishers. <https://doi.org/10.1007/978-94-015-8680-1>.
- Snavely, N., Seitz, S. M., & Szeliski, R. (2008). "Modeling the World from Internet Photo Collections". *International Journal of Computer Vision*, 80(2), 189–210. <https://doi.org/10.1007/s11263-007-0107-3>.
- Solopos. (2018). Dermaga Tanjung Emas Telan Investasi Rp280 M - Solopos.com | Panduan Informasi dan Inspirasi. Diambil 23 Januari 2023, dari

- <https://www.solopos.com/dermaga-tanjung-emas-telan-investasi-rp280-m-909924/amp>.
- Sreeja, S. N. (2012). "Geoinformatics Applications in Disaster Management, Trainer's Module". (1st Edition). New Delhi - 110 002: National Institute of Disaster Management, Ministry of Home Affairs, New Delhi.
- Sudibyakto. (2011). *Manajemen Bencana di Indonesia ke Mana?* Yogyakarta: Gadjah Mada University Press.
- Sutanta, H., Rajabifard, A., & Bishop, I. D. (2013). "Disaster Risk Reduction using Acceptable Risk Measures for Spatial Planning". *Journal of Environmental Planning and Management*, 56(6), 761–785. <https://doi.org/10.1080/09640568.2012.702314>.
- Syafitri, A. W. & Rochani, A. (2021). Analisis Penyebab Banjir Rob di Kawasan Pesisir Studi Kasus: Jakarta Utara, Semarang Timur, Kabupaten Brebes, Pekalongan. *Jurnal Kajian Ruang*, 1(1), 16. <https://doi.org/10.30659/jkr.v1i1.19975>.
- Syugiarto. (2021). "Disaster Management System in Indonesia". *Sumatra Journal of Disaster*, 5(2), 87–96.
- Tanoue, M., Taguchi, R., Nakata, S., Watanabe, S., Fujimori, S., & Hirabayashi, Y. (2020). "Estimation of Direct and Indirect Economic Losses Caused by a Flood With Long-Lasting Inundation: Application to the 2011 Thailand Flood". *Water Resources Research*, 56(5). <https://doi.org/10.1029/2019WR026092>.
- Tim Koordinasi Perencanaan dan Pengendalian Penanganan Bencan (P3B) BAPPENAS. (2008). *Penilaian Kerusakan dan Kerugian. Penilaian kerusakan dan Kerugian*, BAPPENAS.
- Tobler, W. R. (1970). "A Computer Movie Simulating Urban Growth in the Detroit Region". *Economic Geography*, 46, 234. <https://doi.org/10.2307/143141>.
- U.S. Naval Academy (USNA). (2023). "DTM/DSM and other Lidar Grids". Diambil 1 Februari 2023, dari https://www.usna.edu/Users/oceano/pguth/md_help/html/dtm_dsm.htm
- Ullman, S. (1976). "The Interpretation of Structure from Motion. Proceedings of the Royal Society of London". the Artificial Intelligence Laboratory of the Massachusetts Institute of Technology. <https://doi.org/doi:10.1098/rspb.1979.0006>.
- UN-ISDR. (2004). "Living with Risk: a Global Review of Disaster Reduction Initiatives". UN Publications (Vol. 1). <https://doi.org/9211010640>.
- UNDP. (2004). "Reducing Disaster Risk: a Challenge for Development-a Global Report". New York: One United Nations Plaza.
- Wahana Komputer. (2015). *Pemodelan SIG untuk Mitigasi Bencana*. Jakarta: PT. Elex Media Komputindo.
- Warrick, R. & Oerlemans, J. (2013). "Sea Level Rise". *Coastal Research Library*, 1000, 245–266. https://doi.org/10.1007/978-94-007-5234-4_10.
- Westen, C. J. Van, Alkema, D., Damen, M. C. J., Kerle, N., & Kingma, N. C. (2011). "Multi-Hazard Risk Assessment: Distance Education Course. Guide Book.
- Westoby, M. J., Brasington, J., Glasser, N. F., Hambrey, M. J., & Reynolds, J. M. (2012). "Structure-from-Motion Photogrammetry: a Low-Cost, Effective Tool for Geoscience Applications". *Geomorphology*, 179, 300–314. <https://doi.org/10.1016/j.geomorph.2012.08.021>.



- Widada, S., Zainuri, M., Yulianto, G., Satriadi, A., Jati Wijaya, Y., & Helmi, M. (2020). "Mitigation of Floodwaters Inundation due to Land Subsidence in the Coastal Area of Semarang City". In IOP Conference Series: Earth and Environmental Science (Vol. 530). IOP Publishing Ltd. <https://doi.org/10.1088/1755-1315/530/1/012006>.
- Wolf, P. R. (1993). Elemen Fotogrametri : Dengan Interpretasi Foto Udara Dan Penginderaan Jauh. (Gunadi, T. Gunawan, & Zuharnen, Ed.) (2 ed.). Yogyakarta: Gadjah Mada University Press.
- Yualelawati, E. & Syihab, U. (2018). Mencerdasi Bencana. Jakarta: PT. Grasindo.
- Zhang, P., Li, H., Wang, J., & Hong, J. (2019). "Analysis of Spatial Wharf Pattern of the Yangtze River Delta Urban Agglomeration, China". ISPRS International Journal of Geo-Information, 8(12). <https://doi.org/10.3390/ijgi8120541>.