

DAFTAR PUSTAKA

- Allen, R., 1978. Automatic earthquake recognition and timing from single traces. *Bulletin of the Seismological Society of America*, Volume 68, pp. 1521-1532.
- Anomin, 2022. *Laporan Aktivitas Gunung Merapi Tanggal 26 Agustus - 1 September 2022*. [Online]
Available at: <https://bpptkg.esdm.go.id/pub/page.php?id=631>
[Diakses 08 02 2023].
- Anonim, 2014. *Gunung Merapi - Geofisika*. [Online]
Available at: <https://vsi.esdm.go.id/index.php/gunungapi/data-dasar-gunungapi/542-g-merapi?start=2>
[Diakses 11 2022].
- Anonim, 2018. *Statistical Analysis of Genomics Data*. [Online]
Available at: <https://online.stat.psu.edu/stat555/node/85/>
[Diakses 10 02 2023].
- Anonim, 2022. *Laporan Aktivitas Gunung Merapi Tanggal 12 - 18 Agustus 2022*. [Online]
Available at: <https://bpptkg.esdm.go.id/pub/page.php?id=629>
[Diakses 08 02 2023].
- Anonim, 2022. *Laporan Aktivitas Gunung Merapi Tanggal 19 - 25 Agustus 2022*. [Online]
Available at: <https://bpptkg.esdm.go.id/pub/page.php?id=630>
[Diakses 08 02 2023].
- Arisalwadi, M., Maryanto, S. & Hetty, T., 2017. Analisis Spektral dan Waveform Cross Correlation Tremor Vulkanik Gunungapi Bromo Jawa Timur Pada Letusan Tahun 2016. *Natural B, Journal of Health and Environmental Sciences*, IV(1), pp. 57-64.
- Arsy, L., 2020. Hubungan Ilmu Pengetahuan dan Teknologi. *Jurnal Biram Samtani Sains*, 4(1).
- Beauducel, F. & Cornet, F. H., 1999. Collection and three-dimensional modeling of GPS and tilt data at Merapi volcano, Java. *Journal of Geophysical Research*, 104(B1), pp. 725-736.
- Berthommier, P., 1990. *Etude volcano logique du Merapi (Centre-Java)*, Clermont-Ferrand: Univ. Blaise Pascal.
- Bormann, P., Klinge, K. & Wendt, S., 2009. *Data Analysis and Seismogram Interpretation*. [Online]
Available at: https://gfzpublic.gfz-potsdam.de/rest/items/item_4009/component/file_4010/content
[Diakses 06 02 2023].

- Brotospito, K. S., 1990. *Analysis of volcanic tremor at mount Merapi (Central Java, Indonesia): In order to understand internal magma flow*, Yogyakarta: Universitas Gadjah Mada.
- Budi-Santoso, A. et al., 2013. Analysis of the seismic activity associated with the 2010 eruption of. *Journal of Volcanology and Geothermal Research*, pp. 1-18.
- Camus, G., Gourgaud, A., Berthommier, P. & Vincent, P., 2000. Merapi (Central Java, Indonesia): An outline of the structural and magmatological evolution, with a special emphasis to the major pyroclastic events. *Journal of Volcanology and Geothermal Research*, 100(1-4), pp. 139-163.
- Chamberlain, C. J., 2022. *EQcorrscan*. [Online] Available at: <https://eqcorrscan.readthedocs.io/en/latest/index.html> [Diakses 11 2022].
- Cholis, M. N. & Fuad, Y., 2014. Aplikasi Deteksi Tepi Sobel Untuk Identifikasi Tepi Citra Medis. *MATHunesa*, 3(2), pp. 15-19.
- Chouet, B., 1996. Long-period volcano seismicity: its source and use in eruption forecasting. *Nature*, Volume 380, pp. 309-316.
- Cohen-Addad, V., Kanade, V., Mallmann-Trenn, F. & Mathieu, C., 2019. Hierarchical Clustering: Objective Functions and Algorithms. *Journal of the Association for Computing Machinery*, 66(4), pp. 26:1-42.
- Dani, A. T. R., Wahyuningsih, S. & Rizki, N. A., 2019. Penerapan Hierarchical Clustering Metode Agglomerative pada Data Runtun Waktu. *Jambura Journal of Mathematics*, 1(2), pp. 64-78.
- Dawid, S. & Pasau, G., 2015. Penentuan Lokasi Pergerakan Magma Gunungapi Soputan Berdasarkan Studi Sebaran Hiposenter Gempa Vulkanik Periode Mei 2013 - Mei 2014. *Jurnal Ilmiah Sains*, 15(2), pp. 88-93.
- De Angelis, S., 2009. Seismic source displacement by coda wave interferometry at Soufrière Hills Volcano, Montserrat, WI. *Natural Hazards and Earth System Sciences*, Volume 9, p. 1341–1347.
- Diaroh & Suryanto, W., 2011. Analisis Gempa Vulkanik Pada Letusan Gunung Merapi 2010 dari Data Seismik Broadband di Stasiun Wanagama Yogyakarta dengan Dekomposisi Wavelet. *Seminar Nasional Sains dan Pendidikan Sains*, 1(2), pp. 1-7.
- Eriksson, T. & Abdelnaeim, M. M., 2019. *Waveform Clustering : Grouping Similar Power System Event*, Vasteras: Malardalen University, School of Innovation Design and Engineering.
- Everitt, B., Landau, S., Leese, M. & Stahl, D., 2011. *An Introduction to Classification and Clustering*. s.l.:s.n.

- Fadliana, A., 2015. *Penerapan Metode Agglomerative Hierarchical Clustering untuk Klasifikasi Kabupaten/Kota di Provinsi Jawa Timur Berdasarkan Kualitas Keluarga Berencana*, Malang: Universitas Islam Negeri Maulana Malik Ibrahim.
- Februariyanti, H. & Winarko, E., 2010. *Klastering Dokumen Menggunakan Hierarchical Agglomerative Clustering*. [Online] Available at: <https://media.neliti.com/media/publications/220918-klastering-dokumen-menggunakan-hierarchi.pdf> [Diakses September 2022].
- Gertisser, R., Charbonnier, . S., Keller, . J. & Quidelleur, X., 2012. The geological evolution of Merapi volcano, Central Java. *Bulletin of Volcanology*, Issue 74, p. 1213–1233.
- Goldberg, D. E. & Holland, J. H., 1988. Genetic Algorithms and Machine Learning. *Machine Learning*, Volume 3, pp. 95-99.
- Govender, P. & Sivakumar, V., 2020. Application of k-means and hierarchical clustering techniques for analysis of air pollution: A review (1980–2019). *Atmospheric Pollution Research*, Issue 11, pp. 40-56.
- Halkidi, M., 2009. Hierarchical Clustering. Dalam: *Encyclopedia of Database Systems*. Boston, MA: Springer, p. 1291–1294.
- Hidayat, D. et al., 2000. Broadband seismic experiment at Merapi Volcano, Java, Indonesia: very-long-period pulses embedded in multiphase earthquakes. *Journal of Volcanology and Geothermal Research*, 100(1-4), pp. 215-231.
- Hidayati, S., Ratdomopurbo, A., Ishihara, K. & Iguchi, M., 2008. Focal Mechanism of Volcano-tectonic Earthquakes at Merapi Volcano, Indonesia. *Indonesian Journal of Physics*, 19(3), pp. 75-82.
- Hidayati, S., Suparman, Y. & Loeqman, A., 2011. Mekanisme Fokus dan Parameter Sumber Gempa Vulkanik-Tektonik di Gunung Guntur, Jawa Barat. *Jurnal Geologi Indonesia*, 6(1), pp. 1-11.
- Huang, G. B., Zhu, Q. Y. & Siew, C. K., 2006. Extreme learning machine: theory and application. *Neurocomputing*, 70(1-3), p. 489–501.
- Kissling, E., Nizkous, I. & Arlitt, R., 2006. *Teleseismic travel time picking principles*. [Online] Available at: https://www.researchgate.net/publication/263383493_Teleseismic_Travel_Time_Picking_Principles [Diakses 08 08 2023].
- Kusuma, D. T., 2021. Fast Fourier Transform (FFT) Dalam Transformasi Sinyal Frekuensi Suara Sebagai Upaya Perolehan Average Energy (AE) Musik. *Jurnal Pengkajian dan Penerapan Teknik Informatika*, 14(1), pp. 28-35.

- McCarthy, J., 2007. *What is Artificial Intelligence?*, California: Computer Science Department, Stanford University.
- McNutt, S. R., 1996. Seismic Monitoring and Eruption Forecasting of Volcanoes: A Review of the State-of-the-Art and Case Histories. Dalam: *Monitoring and Mitigation of Volcano Hazards*. Berlin: Springer-Verlag.
- McNutt, S. R., 2000. Volcanic Seismicity. Dalam: H. Sigurdsson, et al. penyunt. *Chapter 63 of Encyclopedia of Volcanoes*. San Diego: Academic Press, pp. 1015-1033.
- Murthagh, F. & Contreras, P., 2011. Methods of Hierarchical Clustering. *Computing Research Repository - CORR*.
- Nandaka, I. G. M. A., Sulistyani, Suharna, Y. & Putra, R., 2019. Overview of Merapi Volcanic Activities from Monitoring Data 1992-2011 Period. *Journal of Disaster Research*, 14(1), pp. 18-26.
- Ohminato, T., Chouet, B., Dawson, P. & Kedar, S., 1998. Waveform inversion of very long period impulsive signals associated with magmatic injection beneath Kilauea Volcano, Hawaii. *Journal of Geophysical Research*, 103(B10), pp. 839-862.
- Poupinet, G., Ratdomopurbo, A. & Coutant, O., 1996. On the use of earthquake multiplets to study fracture and the temporal evolution of an active volcano. *Annali de Geofisica*, XXXIX(2), pp. 253-264.
- Poupinet, G., Ratdomopurbo, A. & Coutant, O., 1996. On the use of earthquake multiplets to study fractures and the temporal evolution of an active volcano. *Annali di Geofisica*, Volume 39, pp. 253-264.
- Prasetyo, E., 2012. *Data Mining: Konsep dan Aplikasi Menggunakan MATLAB*. Yogyakarta: Penerbit Andi.
- Pratama, I. P. D. & Marsono, A., 2020. Korelasi Sinyal Gelombang P Dalam Penentuan “Keluarga” Gempabumi. *JlIF (Jurnal Ilmu dan Inovasi Fisika)*, 04(02), p. 113 – 122.
- Pratama, I. P. D., Negara, P. K. & Priyanto, D. K., 2021. Koreksi Instrumen Pada Seismometer Broadband Trilium-120p dan Short Period DS-04A Co-Located di Stasiun Geofisika Denpasar. *Megasains*, 12(1), pp. 1-7.
- Putri, L. P. & Mulyanto, B. S., 2013. Analisis Karakteristik dan Klasifikasi Gempa pada Gunung Lokon Berdasarkan Rekaman Data Seismogram April-Mei 2012. *Jurnal Geofisika Eksplorasi (JGE)*, 1(2).
- Ratdomopurbo, A. & Poupinet, G., 2000. An overview of the seismicity of Merapi volcano (Java, Indonesia). *Journal of Volcanology and Geothermal Research*, 100(1-4), pp. 193-214.
- Roihan, A., Sunarya, P. A. & Rafika, A., 2020. Pemanfaatan Machine Learning dalam Berbagai Bidang: Review pape. *IJCIT (Indonesian Journal on Computer and Information Technology)*, 5(1), pp. 75-82.

- Tempola, F., Muhammad, M. & Khairan, A., 2018. Perbandingan Klasifikasi Antara KNN dan Naive Bayes Pada Penentuan Status Gunung Berapi dengan K-Fold Cross Validation. *Jurnal Teknologi Informasi dan Ilmu Komputer (JTIK)*, 5(5), pp. 577-584.
- Thupae, R., Isong, B., Gasela, N. & Abu-Mahfouz, A. M., 2018. Machine Learning Techniques for Traffic Identification and Classification in SDWSN: A Survey. *IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society*, p. 4645–4650.
- Triastuty, H., 2014. Penentuan Lokasi sumber tremor vulkanik Gunung Api Raung pada erupsi di bulan Oktober-November 2012. *Jurnal Gunungapi Dan Mitigasi Bencana Geologi*, Volume 6.
- Ullman, S. et al., 2014. *Unsupervised Learning : Clustering*. [Online] Available at: <http://www.mit.edu/~9.54/fall14/slides/Class13.pdf> [Diakses 20 January 2023].
- van Padang, M. N., 1930. *De uitbarsting van den Merapi: Midden Java*. Batavia: Drukerij.
- Voight, B., Constantine, E. K., Siswamidjono, S. & Torley, R., 2000. Historical eruptions of Merapi Volcano, Central Java, Indonesia, 1768–1998. *Journal of Volcanology and Geothermal Research*, 100(1), pp. 69-138.
- Wassermann, J., 2012. Volcano Seismology. Dalam: *New Manual of Seismological Observatory Practice (NMSOP)*. Potsdam: Deutsches GeoForschungsZentrum GFZ, pp. 1-42.
- Wegler, U. & Lühr, B. G., 2001. Scattering behavior at Merapi volcano (Java) revealed from an active seismic experiment. *Geophysical Journal International*, 145(3), pp. 579-592.
- Weisstein, E. W., 2017. *Cross-Correlation*. [Online] Available at: <https://mathworld.wolfram.com/Cross-Correlation.html>
- West, M. E., 2008. *Tools and topics in seismic waveform cross-correlation*, Alaska: GI Seismology Lab., University of Alaska.
- Widyawati, Saptomo, W. L. Y. & Utami, Y. R. W., 2020. Penerapan Agglomerative Hierarchical Clustering Untuk Segmentasi Pelanggan. *Jurnal Ilmiah Sinus (JIS)*, 18(1), pp. 75-87.
- Wirakusumah, A. D., Juwana, H. & Loebis, H., 1989. *Peta Geologi Gunung Merapi. Provinsi Daerah Istimewa Yogyakarta dan Jawa Skala 1:50.000*, Bandung: Puslitbang Geologi.
- Zobin, V. M., 2012. *Introduction To Volcanic Seismology*. 2nd penyunt. Massachusetts: Elsevier B.V.