

DAFTAR PUSTAKA

- Athoillah, M., Irawan, M., I., & Imah, Elly, M. (2015). Study Comparison of SVM-, K-NN- and Backpropagation-Based Classifier for Image Retrieval. *Jurnal Ilmu Komputer Dan Informasi (Journal of Computer Science and Information)*, 8(1), 11–18.
- Babcock, B., Babu, S., Datar, M., Motwani, R., & Widom, J. (2002). Models and issues in data stream systems. *Proceedings of the Twenty-First ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems - PODS '02*, 1. <https://doi.org/10.1145/543613.543615>
- Banaee, H., Ahmed, M. U., & Loutfi, A. (2013). Towards NLG for Physiological Data Monitoring with Body Area Networks. *Proceedings of the 14th European Workshop on Natural Language Generation (ENLG'13)*, 193–197. Retrieved from <http://www.aclweb.org/anthology/W13-2127>
- Bateman, J., & Zock, M. (2012). Natural Language Generation. *The Oxford Handbook of Computational Linguistics*, 1–21. <https://doi.org/10.1093/oxfordhb/9780199276349.013.0015>
- Belz, A. (2007). Probabilistic Generation of Weather Forecast Texts. *Naacl-Hlt*, (April), 164–171. Retrieved from <http://www.aclweb.org/anthology/N07-1021>
- Bowden, R., & Bullington, S. F. (1996). Development of manufacturing control strategies using unsupervised machine learning. *IIE Transactions (Institute of Industrial Engineers)*, 28(4), 319–331. <https://doi.org/10.1080/07408179608966279>
- Boyd, S. (1998). TREND: A System for Generating Intelligent Descriptions of Time-Series Data. *IEEE International Conference on Intelligent Processing Systems (ICIPS1998)*, 111. <https://doi.org/10.1.1.57.3705>
- Budiharto, W. (2013). *Pengantar Praktis Pemrograman R untuk Ilmu Komputer*.
- Castillo-Ortega, R., Marín, N., Martínez-Cruz, C., & Sánchez, D. (2014). A proposal for the hierarchical segmentation of time series. Application to trend-based linguistic description. *IEEE International Conference on Fuzzy Systems*, 489–496. <https://doi.org/10.1109/FUZZ-IEEE.2014.6891840>

- Cliff, K. R., & Billy, K. M. (2017). Estimation of the Parameters of a Linear regression System Using the Simple Averaging Method. *Global Journal of Pure and Applied Mathematics*, 13(11), 7749–7758.
- Crowder, J. W., Moore, J. G., DeRose, L., & Franek, W. J. (1999). Air Pollution Field Enforcement. *STUDENT MANUAL*, 1–5.
- Demir, S., Carberry, S., & McCoy, K. F. (2012). Summarizing Information Graphics Textually. *Computational Linguistics*, 38(3), 527–574. <https://doi.org/10.1162/COLI>
- Domingos, P., & Hulten, G. (2001). Catching up with the data: Research issues in mining data streams. *Workshop on Research Issues in Data Mining and Knowledge Discovery*, 470. Retrieved from http://www.cs.cornell.edu/johannes/papers/dmkd2001-papers/p8_domingos.pdf
- Fallah-Ghalhary, G. A., Mousavi-Baygi, M., & Nokhandan, M. H. (2009). Annual Rainfall Forecasting by Using Mamdani Fuzzy Interface System. *Research Journal of Environmental Sciences*, 3.
- Gaber, M. M., Zaslavsky, A., & Krishnaswamy, S. (2005). Mining data streams: a review. *ACM Sigmod Record*, 34(2), 18–26. <https://doi.org/10.1145/1083784.1083789>
- Gama, J., & Gaber, M. M. (2007). *Learning from Data Streams: Processing Techniques in Sensor Networks*. https://doi.org/10.1007/3-540-73679-4_7
- Gatt, A., Portet, F., Reiter, E., Hunter, J., Mahamood, S., Moncur, W., & Sripada, S. (2009). From data to text in the neonatal intensive care Unit: Using NLG technology for decision support and information management. *AI Communications*, 22(3), 153–186. <https://doi.org/10.3233/AIC-2009-0453>
- Gkatzia, D., Lemon, O., & Rieser, V. (2016). Natural Language Generation enhances human decision-making with uncertain information. *The 54th*

- Annual Meeting of the Association for Computational Linguistics*, 264.
Retrieved from <http://arxiv.org/abs/1606.03254>
- Gkatzia, D., Lemon, O., & Rieser, V. (2017). Data-to-Text Generation Improves Decision-Making Under Uncertainty. *IEEE Computational Intelligence Magazine*, 12(3), 10–17. <https://doi.org/10.1109/MCI.2017.2708998>
- Hallett, C., Power, R., & Scott, D. (2006). Summarisation and visualisation of e-Health data repositories Conference Item Repositories. *UK E-Science All-Hands Meeting*, 18–21.
- Härdle, W., & Simar, L. (2007). *Applied Multivariate Statistical Analysis*. *Applied Statistics* (Vol. 22007). Berlin: Springer. <https://doi.org/10.2307/2347962>
- Hashem, I. A. T., Yaqoob, I., Anuar, N. B., Mokhtar, S., Gani, A., & Ullah Khan, S. (2015). The rise of “big data” on cloud computing: Review and open research issues. *Information Systems*, 47, 98–115. <https://doi.org/10.1016/j.is.2014.07.006>
- Hospital, Z. (2003). Predicting hepatitis B virus – positive metastatic hepatocellular carcinomas using gene expression profiling and supervised machine learning. *Nature Medicine*, 9(4), 416. <https://doi.org/10.1038/nm843>
- Huby, J. (2010). Cloud Coverage. Retrieved May 20, 2018, from <http://www.theweatherprediction.com/habyhints/189/>
- Hunter, J., Freer, Y., Gatt, A., Reiter, E., Sripada, S., Sykes, C., & Westwater, D. (2011). Bt-Nurse: Computer generation of natural language shift summaries from complex heterogeneous medical data. *Journal of the American Medical Informatics Association*, 18(5), 621–624. <https://doi.org/10.1136/amiajnl-2011-000193>
- Ihaka, R., & Gentleman, R. (2012). R: a language for data analysis and graphics. *Journal of Computational and Graphical Statistics*, 5(3), 299–314. <https://doi.org/10.1080/10618600.1996.10474713>
- Käll, L., Canterbury, J. D., Weston, J., Noble, W. S., & MacCoss, M. J. (2007). Semi-supervised learning for peptide identification from shotgun proteomics

- datasets. *Nature Methods*, 4(11), 923–925.
<https://doi.org/10.1038/NMETH1113>
- Kittredge, R. I., & Driedger, N. (1994). Using Natural-Language Processing to Produce Weather Forecasts. *IEEE Expert-Intelligent Systems and Their Applications*, 9(2), 45–53. <https://doi.org/10.1109/64.294135>
- Kukich, K. (1983). Design of a knowledge-based report generator. *Proceedings of the 21st Annual Meeting on Association for Computational Linguistics* -, 145. <https://doi.org/10.3115/981311.981340>
- Liddy, E. D. (2001). Natural Language Processing. *Natural Language Processing. In Encyclopedia of Library and Information Science, 2nd Ed.* NY. Marcel Decker, Inc., 1–15.
- Mishra, N., & Jain, E. A. (2014). Time Series Data Analysis for Forecasting – A Literature Review. *International Journal of Modern Engineering Research*, 4(7), 1–5.
- Mohri, M., Rostamizadeh, A., & Talwalkar, A. (2012). *Foundations of Machine Learning. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* (Vol. 17). MIT Press. https://doi.org/10.1007/978-3-642-34106-9_15
- Muthukrishnan, S. (2005). Data Streams: Algorithms and Applications. *Foundations and Trends® in Theoretical Computer Science*, 1(2), 117–236. <https://doi.org/10.1561/0400000002>
- Ng, A. Y., Coates, A., Diehl, M., Ganapathi, V., Schulte, J., Tse, B., ... Liang, E. (2006). Autonomous inverted helicopter flight via reinforcement learning. *Springer Tracts in Advanced Robotics*, 21, 363–372. https://doi.org/10.1007/11552246_35
- Paliouras, G., Papatheodorou, C., Karkaletsis, V., & Spyropoulos, C. D. (2002). Discovering user communities on the Internet using unsupervised machine learning techniques. *Interacting With Computers*, 14(6), 761–791. [https://doi.org/10.1016/S0953-5438\(02\)00015-2](https://doi.org/10.1016/S0953-5438(02)00015-2)

- Palpanas, T., Vlachos, M., Keogh, E., Gunopulos, D., & Truppel, W. (2004). Online amnesic approximation of streaming time series. *Data Engineering, 2004. Proceedings. 20th International Conference On*, 339–349. <https://doi.org/10.1109/ICDE.2004.1320009>
- Portet, F., Reiter, E., Gatt, A., Hunter, J., Sripada, S., Freer, Y., & Sykes, C. (2009). Automatic generation of textual summaries from neonatal intensive care data. *Artificial Intelligence*, 173(7–8), 789–816. <https://doi.org/10.1016/j.artint.2008.12.002>
- Pressman, R. S. (2001). *Software Engineering A Practitioner’s Approach*. (B. Jones & E. Gray, Eds.) (FIFTH EDIT). Palgrave Macmillan.
- Putra, B., Riza, L. S., & Wihardi, Y. (2017). Pengembangan Sistem Data-to-Text untuk Membangkitkan Berita Cuaca dengan Pendekatan Time-Series dalam R, 1–39.
- Ramos-soto, A., Bugarin, A., & Barro, S. (2016). Fuzzy Sets Across the Natural Language Generation Pipeline. *Progress in Artificial Intelligence*, 5(4), 261–276.
- Ramos-Soto, A., Bugarín, A., & Barro, S. (2016). On the role of linguistic descriptions of data in the building of natural language generation systems. *Fuzzy Sets and Systems*, 285, 31–51. <https://doi.org/10.1016/j.fss.2015.06.019>
- Ramos-Soto, A., Bugarin, A., Barro, S., Gallego, N., Rodriguez, C., Fraga, I., & A.Saunders. (2015). Automatic Generation of Air Quality Index Textual Forecasts Using a Data-To-Text Approach. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 9422(May), 164–174. <https://doi.org/10.1007/978-3-319-24598-0>
- Reddington, J., & Tintarev, N. (2011). Automatically Generating Stories from Sensor Data. *Proceedings of the 16th International Conference on Intelligent User Interfaces*, (November 2010), 407–410. <https://doi.org/10.1145/1943403.1943477>

- Reiter, E. (1996). Building Natural-Language Generation Systems, 91–93. Retrieved from <http://arxiv.org/abs/cmp-lg/9605002>
- Reiter, E. (2010). Natural Language Generation. *The Handbook of Computational Linguistics and Natural Language Processing*, 574–598. <https://doi.org/10.1002/9781444324044.ch20>
- Reiter, E. (2011). An Architecture for Data-to-Text Systems. *Computational Intelligence*, 27(1), 23–40. <https://doi.org/10.1111/j.1467-8640.2010.00370.x>
- Riza, L. S. (2015). *Data Science and Big Data Processing in R: Representations and Software*.
- Riza, L. S., Nasrulloh, I. F., Junaeti, E., Zain, R., Bayu, A., & Nandiyanto, D. (2016). gradDescentR : An R Package Implementing Gradient Descent and Its Variants for Regression Tasks. *Information Technology, Information Systems and Electrical Engineering (ICITISEE)*, 125–129.
- Rowlett, R. (2001). Beaufort Scales (Wind Speed). Retrieved May 20, 2018, from <https://www.unc.edu/~rowlett/units/scales/beaufort.html>
- Samuel, A. L. (1959). Some studies in machine learning using the game of checkers. *IBM Journal of Research and Development*, 3(3), 210–229. <https://doi.org/10.1147/rd.33.0210>
- Schneider, A. H., Mort, A., Mellish, C., Reiter, E., & Wilson, P. (2013). MIME - NLG in Pre-Hospital Care. *Fourteenth European Workshop on Natural Language Generation*, 152–156.
- Shannon, C. E. (1950). A Chess-Playing Machine. *Scientific American*, 182(2), 48–51.
- Spector, P. (2004). An Introduction to R. *Statistical Computing Facility*, (x), 1–10.
- Sripada, S. G., & Gao, F. (2007). Summarizing dive computer data: A case study in integrating textual and graphical presentations of numerical data. *Proceedings of the Workshop on Multimodal Output Generation (MOG-2007)*, 149–157. Retrieved from

http://doc.utwente.nl/67074/1/mog07_proceedings.pdf#page=157

- Sripada, S. G., Reiter, E., Hunter, J., & Yu, J. (2001). A two-stage model for content determination. *Proceedings of the 8th European Workshop on Natural Language Generation-Volume 8*, 8, 1–8. <https://doi.org/10.3115/1117840.1117842>
- Sripada, S. G., Reiter, E., Hunter, J., & Yu, J. (2003). Generating English summaries of time series data using the Gricean maxims. *Proceedings of the Ninth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining - KDD '03*, 187. <https://doi.org/10.1145/956755.956774>
- Stone, P., Sutton, R. S., & Kuhlmann, G. (2005). Reinforcement Learning for RoboCup-Soccer Keepaway. *Adaptive Behavior*, 13(3), 165–188. <https://doi.org/10.1177/105971230501300301>
- Sudrina, Y. (2016). Data Mining : tren Analisa data Berskala Besar Terkait Penelitian Ekologi. *Data Mining, (Icdm)*, 1–6. Retrieved from https://www.researchgate.net/publication/307568588_Data_Mining_tren_Analisa_data_Berskala_Besar_Terkait_Penelitian_Ekologi
- Tang, F., Brennan, S., Zhao, Q., & Tao, H. (2007). Co-Tracking Using Semi-Supervised Support Vector Machines. *Computer Vision*, 1–8.
- Thomas, K. E., Sripada, S., & Noordzij, M. L. (2012). Atlas.txt: Exploring linguistic grounding techniques for communicating spatial information to blind users. *Universal Access in the Information Society*, 11(1), 85–98. <https://doi.org/10.1007/s10209-010-0217-5>
- Turian, J., Ratinov, L., & Bengio, Y. (2010). Word representations : A simple and general method for semi-supervised learning. *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics*, 384–394.
- Turing, A. (1950). Introducci ón a la Inteligencia Artificial. *Intelligence*, 59, 433–460.
- Turner, R., Sripada, S., Reiter, E., & Davy, I. P. (2008). Using spatial reference frames to generate grounded textual summaries of georeferenced data.

Proceedings of the Fifth International Natural Language Generation Conference, 16–24. <https://doi.org/10.3115/1708322.1708328>

- Williamson, R., & Andrews, B. J. (2000). Gait Event Detection for FES Using Accelerometers and Supervised Machine Learning. *IEEE Transactions on Rehabilitation Engineering*, 8(3), 312–319.
- Ye, Q., Zhang, Z., & Law, R. (2009). Expert Systems with Applications Sentiment classification of online reviews to travel destinations by supervised machine learning approaches. *Expert Systems With Applications*, 36(3), 6527–6535. <https://doi.org/10.1016/j.eswa.2008.07.035>
- Yu, J., Reiter, E., Hunter, J., & Mellish, C. (2007). Choosing the content of textual summaries of large time-series data sets. *Natural Language Engineering*, 13(1), 25–49. <https://doi.org/10.1017/S1351324905004031>
- Zandlo, J., Spoden, G., Bouley, P., & Ruschy, D. (2001). Wind Direction and Degrees. Retrieved May 20, 2018, from <http://snowfence.umn.edu/Components/winddirectionanddegreeswithouttable3.htm>
- Zanero, S., & Savaresi, S. M. (2004). Unsupervised learning techniques for an intrusion detection system. *Proceedings of the 2004 ACM Symposium on Applied Computing - SAC '04*, 412. <https://doi.org/10.1145/967900.967988>