



## DAFTAR PUSTAKA

- Abbaché, A, Meziane, F, Belalem, G, dan Belkredim, F. Z, 2016, *Arabic Query Expansion Using WordNet and Association Rules*. *International Journal of Intelligent Information Technologies*, 12(3). doi: 10.4018/IJIIT.2016070104.
- Afuan, L, Ashari, A, dan Suyanto, Y, 2019, *Query Expansion in Information Retrieval using Frequent Pattern ( FP ) Growth Algorithm for Frequent Itemset Search and Association Rules Mining*. *International Journal of Advanced Computer Science and Applications*, 10(2):263–267.
- Agrawal, R dan Srikant, R, 1994, *Fast Algorithms for Mining Association Rules*. *Proceeding VLDB '94 Proceedings of the 20th International Conference on Very Large Data Bases*, 1215:487–499. ISSN 15426270. doi: 10.1.1.40.6757.
- Agusta, L, 2009, *Perbandingan Algoritma Stemming Porter dengan Algoritma Nazief & Adriani untuk Stemming Dokumen Teks Bahasa Indonesia*. *Konferensi Nasional Sistem dan Informatika*, pages 196–201.
- Al-chalabi, H, Ray, S, dan Shaalan, K, 2015, *Semantic based Query Expansion for Arabic Question Answering Systems*. *First International Conference on Arabic Computational Linguistics Semantic*, pages 131–136. doi: 10.1109/ACLing.2015.25.
- Al-Dubaee, S. A, 2014, New Information Retrieval Model. In *Science and Information Conference*, pages 819–826.
- Al-mubaid, H dan Nguyen, H. A, 2006, *A Cluster-Based Approach for Semantic Similarity in the Biomedical Domain*. In *Proceedings of Conference of the IEEE Engineering in Medicine and Biology Society*, (Ic):2713–2717.
- Amina, M, Chiraz, L, dan Slimani, Y, 2016, *Short Query Expansion for Microblog Retrieval*. *Procedia - Procedia Computer Science*, 96:225–234. ISSN 1877-0509. doi: 10.1016/j.procs.2016.08.135. URL <http://dx.doi.org/10.1016/j.procs.2016.08.135>.
- Andreasen, T, Per Anker Jensen, Nilsson, J. F, Paggio, P, Pedersen, B. S, dan Erdm, H. T, 2004, *Content-based text querying with ontological descriptors*. *Data & Knowledge Engineering*, 48:199–219. doi: 10.1016/S0169-023X(03)00105-8.
- Aptikom, T. k. K, 2019, *Pengembangan Kurikulum KKNI Berdasarkan OBE Bidang Ilmu Informatika dan Komputer*. ISBN 9786239195809.
- Araujo, L, Zaragoza, H, Pérez-agüera, J. R, dan Pérez-iglesias, J, 2010, *Structure of morphologically expanded queries: A genetic algorithm approach*. *Data & Knowledge Engineering*. doi: 10.1016/j.datak.2009.10.010.



Babu, A dan L, S, 2015, *An Information Retrieval System for Malayalam Using Query Expansion Technique*. *International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, pages 1559–1564.

Baeza-Yates, R dan Ribeiro-Neto, B, 1999, *Modern information retrieval*. Addison-Wesley, 9:513. ISSN 0022541X. doi: 10.1080/14735789709366603.

Batet, M, Sánchez, D, dan Valls, A, 2011, *An ontology-based measure to compute semantic similarity in biomedicine*. *Journal of Biomedical Informatics*, 44(1):118–125. ISSN 1532-0464. doi: 10.1016/j.jbi.2010.09.002. URL <http://dx.doi.org/10.1016/j.jbi.2010.09.002>.

Boubacar, A dan Niu, Z, 2013, *Concept Based Query Expansion*. *International Conference on Semantics, Knowledge and Grids*. doi: 10.1109/SKG.2013.10.

Bouziri, A, Latiri, C, Gaussier, E, dan Belhareth, Y, 2012, *Learning Query Expansion from Association Rules Between Terms*.

Castells, P, Fernandez, M, Vallet, D, Fernández, M, dan Vallet, D, 2007, *An Adaptation of the Vector-Space Model for Ontology-Based Information Retrieval*. *IEEE Transactions on Knowledge and Data Engineering*, 19(2):261–272.

Chandrasekaran, B, Josephson, J. R, dan Benjamins, V. R, 1999, *What Are Ontologies , and Why Do We Need Them ? IEEE Intelligent Systems*.

Chithra, S, Sinith, M. S, dan Gayathri, A, 2015, *Music Information Retrieval for Polyphonic Signals using Hidden Markov Model*. *Procedia - Procedia Computer Science*, 46(Icict 2014):381–387. ISSN 1877-0509. doi: 10.1016/j.procs.2015.02.034. URL <http://dx.doi.org/10.1016/j.procs.2015.02.034>.

Choi, J, Park, Y, dan Yi, M, 2016, A Hybrid Method for Retrieving Medical Documents with Query Expansion. In *Big Data and Smart Computing (BigComp)*, pages 411–414. ISBN 9781467387965.

Cios, K. J, 1998, *Data Mining A Knowledge Discovery Approach*. Springer.

Dahak, F, Boughanem, M, dan Balla, A, 2017, *A probabilistic model to exploit user expectations in XML information retrieval*. *Information Processing and Management*, 53(1):87–105. ISSN 0306-4573. doi: 10.1016/j.ipm.2016.06.008. URL <http://dx.doi.org/10.1016/j.ipm.2016.06.008>.

Deerwester, S, Dumais, S. T, dan Harshman, R, 1990, *Indexing by latent semantic analysis*. *Journal of the American society for information science*, 41(6):391–407. ISSN 0002-8231. doi: 10.1002/(SICI)1097-4571(199009)41:6<391::AID-ASI1>3.0.CO;2-9.

Farhoodi, M, Mahmoudi, M, Mohammad, A, Bidoki, Z, Yari, A, dan Azadnia, M, 2009, *Query Expansion Using Persian Ontology Derived from Wikipedia*. *World Applied Sciences Journal*, 7(4):410–417.



Fernández, M, Cantador, I, López, V, Vallet, D, Castells, P, dan Motta, E, 2011, *Semantically enhanced Information Retrieval: An ontology-based approach. Web Semantics: Science, Services and Agents on the World Wide Web*, 9(4):434–452. ISSN 15708268. doi: 10.1016/j.websem.2010.11.003.

Fernández-reyes, F. C, Hermosillo-valadez, J, dan Montes-y gómez, M, 2018, *A Prospect-Guided global query expansion strategy using word embeddings. Information Processing and Management*, 54:1–13. doi: 10.1016/j.ipm.2017.09.001.

Galiano, M. D, Valvidia, M. M, dan Lopez, L. U, 2009, *Query expansion with a medical ontology to improve a multimodal information retrieval system. Computers in Biology and Medicine*, 39:396–403. doi: 10.1016/j.combiomed.2009.01.012.

Gomathi, A, Jayapriya, J, Nishanthi, G, Pranav, K. S, dan G, P. K, 2015, *Ontology Based Semantic Information Retrieval Using Particle Swarm Optimization. International Journal on Applications in Information and Communication Engineering*, 1(4):5–8.

Gruber, T. R, 1993, *A translation approach to portable ontology specifications. Knowledge Acquisition*, (2):199–220. ISSN 1042-8143. doi: 10.1.1.101.7493.

Gunawan, R dan Mustofa, K, 2016, *Pencarian Aturan Asosiasi Semantic Web Untuk Obat Tradisional Indonesia. JNTETI*, (3):192–200.

Han, J, Kamber, M, dan Pei, J, 2012a, *Data Mining : Concepts and Techniques*. ISBN 9780123814791.

Han, X, Fan, Y.-s, MA, C.-s, dan YANG, H.-p, 2012b, *Analysis on method of semantic similarity computation based on tree structure. Microelectronics & Computer*, (5): 10.

Hariyono, M. H. A dan Wahyudi, 2005, *Customer Information Gathering Menggunakan Metode Temu Kembali Informasi Dengan Model Ruang Vektor ( Q , D ). Seminar Nasional Aplikasi Teknologi Informasi (SNATI)*, 2005(Snati).

Inkpen, D, 2007, *Information Retrieval on the Internet*. pages 229–243.

Isa, T. M dan Abidin, F, 2013, Mengukur Tingkat Kesamaan Paragraf Menggunakan Vector Space Model untuk Mendeteksi Plagiarisme. In *Seminar Nasional dan ExpoTeknik Elektro*, pages 229–234.

Jiang, J. J dan Conrath, D. W, 1997, *Semantic Similarity Based on Corpus Statistics and Lexical Taxonomy*. In *Proceedings of The International Conference on Research in Computational Linguistics (ROCLING X), Taiwan*.

Jin, Q, Zhao, J, dan Xu, B, 2003, *Query expansion based on term similarity tree model. International Conference on Natural Language Processing and Knowledge Engineering*, pages 400–406. doi: 10.1109/NLPKE.2003.1275938.



Kiryakov, A, Popov, B, Ognyanoff, D, Manov, D, Kirilov, A, dan Goranov, M, 2004, *Semantic Annotation , Indexing , and Retrieval. Journal of Web Semantics*, 2(1): 49–79.

Lee, D. L, Chuang, H, dan Seamont, K, 1997, *Document Ranking and the Vector-Space Model. IEEE Software*, (April):67–75.

Li, Z dan Ramani, K, 2007, *Ontology based Design Information Extraction and Retrieval. Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, (March):137–154. doi: 10.1017/S0890060407070199.

Lu, M, Sun, X, Wang, S, Lo, D, dan Duan, Y, 2015, *Query Expansion via Wordnet for Effective Code Search. IEEE*, pages 545–549.

Mandala, R, Tokunaga, T, dan Tanaka, H, 1999, *Combining Multiple Evidence from Different Types of Thesaurus for Query Expansion. Proceedings of the 22Nd Annual International Acm Sigir Conference on Research and Development in Information Retrieval*, pages 191–197. doi: 10.1145/312624.312677.

Manning, C. D, Raghavan, P, dan Schutze, H, 2009, *An Introduction to Information Retrieval. Online*, (c):569. ISSN 13864564. doi: 10.1109/LPT.2009.2020494. URL <http://dspace.cusat.ac.in/dspace/handle/123456789/2538>.

Marrara, S, Pasi, G, dan Viviani, M, 2017, *Aggregation operators in Information Retrieval. Fuzzy Sets and Systems*, 1:1–17. ISSN 0165-0114. doi: 10.1016/j.fss.2016.12.018. URL <http://dx.doi.org/10.1016/j.fss.2016.12.018>.

Maskur dan Andriansyah, F. R, 2015, *Implementasi Web Semantik untuk Aplikasi Pencarian Tugas Akhir menggunakan Ontologi dan Cosine Similarity. Jurnal Ilmiah NERO*, 2(1):11–18.

Mataoui, M, Sebbak, F, Benhammadi, F, dan Bey, K. B, 2015, Query Expansion in XML Information Retrieval A new Approach for terms selection M'hamed. In *Modeling, Simulation, and Applied Optimization (ICMSAO)*, pages 4–7. ISBN 9781467366014.

Mitra, M, Buckley, C, dan Park, F, 1998, Improving Automatic Query Expansion. In *Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval*.

Muller, H. M, Kenny, E. E, dan Sternberg, P. W, 2004, *Textpresso : An Ontology-Based Information Retrieval and Extraction System for Biological Literature. Plos Biology*, 2(11). doi: 10.1371/journal.pbio.0020309.



- Nawab, M. R. A, Stevenson, M, dan Clough, P, 2015, *An IR-based Approach Utilising Query Expansion for Plagiarism Detection in MEDLINE*. *Journal of Computational Biology and Bioinformatics*, 5963(APRIL 2015):1–9. doi: 10.1109/TCBB.2016.2542803.
- Noroozi, A dan Malekzadeh, R, 2015, *Integration of Recursive Structure of Hopfield and Ontologies for Query Expansion*. *International Symposium on Artificial Intelligence and Signal Processing*.
- Noy, N. F dan McGuinness, D. L, 2000, *Ontology Development 101 : A Guide to Creating Your First Ontology*. pages 1–25.
- Ooi, J dan Qin, H, 2015, *A Survey of Query Expansion , Query Suggestion and Query Refinement Techniques*. *International Conference on Software Engineering and Computer Systems (ICSECS)*, pages 112–117.
- Pal, D, Mitra, M, dan Bhattacharya, S, 2015, *Exploring Query Categorisation for Query Expansion : A Study*. *CoRR*, pages 1–34.
- Polettini, N, 2004, *The Vector Space Model in Information Retrieval - Term Weighting Problem Local Term-Weighting*. *Entropy*, pages 1–9.
- Rada, R, Mili, H, Bicknell, E, dan Blettner, M, 1989, *Development and Application of a Metric on Semantic Nets*. *IEEE Transactions on Systems, Man and Cybernetics*, 19(1):17–30.
- Resnik, P, 1995, *Using Information Content to Evaluate Semantic Similarity in Taxonomy*. *In Proceedings of the 14th international joint conference on artificial intelligence*, 1.
- Salatino, A. A, Thanapalasingam, T, Mannocci, A, Birukou, A, Osborne, F, dan Motta, E, 2019, *The Computer Science Ontology: A Comprehensive Automatically-Generated Taxonomy of Research Areas*. doi: 10.1162/dint.
- Salton, G, 1983, *Introduction to Modern Information Retrieval*.
- Sanchez, D, Batet, M, dan Valls, A, 2010, *Web-Based Semantic Similarity : An Evaluation in the Biomedical Domain*. *International Journal of Software Informatics*, 4(1):39–52.
- Sánchez, D dan Batet, M, 2011, *Semantic similarity estimation in the biomedical domain : An ontology-based information-theoretic perspective*. *Journal of Biomedical Informatics*, 44:749–759. doi: 10.1016/j.jbi.2011.03.013.
- Sanderson, B. M dan Croft, W. B, 2012, *The History of Information Retrieval Research*. *IEEE*, 100:1444–1451.



- Seco, N, Veale, T, dan Hayes, J, 2004, *An Intrinsic Information Content Metric for Semantic Similarity in WordNet*. In *Proceedings of the 16th European Conference on Artificial Intelligence (ECAI'2004)*, Valencia, Spain, (Ic):1–5.
- Song, M, Song, I.-y, Hu, X, dan Allen, R. B, 2007, *Integration of association rules and ontologies for semantic query expansion*. *Data & Knowledge Engineering*, 63: 63–75. doi: 10.1016/j.datak.2006.10.010.
- Susanto, B, 2013. *Text dan Web Mining*.
- Tala, F. Z, 2003, *A Study of Stemming Effects on Information Retrieval in Bahasa Indonesia*. *Language and Computation Universeit Van Amsterdam*, pp:39–46.
- Tata, S dan Patel, J. M, 2007, *Estimating the Selectivity of tf-idf based Cosine Similarity Predicates*. *Sigmod Record*, 36(2):7–12.
- Ullah, M. A dan Hossain, S. A, 2018, Ontology-Based Information Retrieval System for University : Methods and Reasoning. In *IEMIS*, pages 119–128. Springer Singapore. ISBN 9789811315015. doi: 10.1007/978-981-13-1501-5. URL [http://dx.doi.org/10.1007/978-981-13-1501-5\\_10](http://dx.doi.org/10.1007/978-981-13-1501-5_10).
- Wang, F dan Lin, L, 2016, *Domain Lexicon-based Query Expansion for Patent Retrieval*. *International Conference on Natural Computation*, pages 1543–1547.
- Wu, Z dan Palmer, M, 1994, *Verb Semantics and Lexical Selection*. In *Proceedings of the 32nd Annual Meeting of the Association for Computational Linguistics*, pages 133–138.
- Yu, B, 2019, *Research on information retrieval model based on ontology*. *JEURASIP Journal on Wireless Communications and Networking* (2019), (30):1–8. doi: <https://doi.org/10.1186/s13638-019-1354>.
- Zhou, D, Lawless, S, Liu, J, Zhang, S, dan Xu, Y, 2015, *Query Expansion for Personalized Cross-Language Information Retrieval*. *International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP)*.