

---

## BIBLIOGRAPHY

- [1] S. Li, P. Brusilovsky, S. Su, and X. Cheng, "Conference Paper Recommendation for Academic Conferences," *IEEE Access*, vol. 6, pp. 17153–17164, 2018, doi: 10.1109/ACCESS.2018.2817497.
- [2] M. Ware and M. Mabe, "The STM Report: An overview of scientific and scholarly journal publishing," *Copyr. Fair Use Sch. Commun. Etc*, Mar. 2015, [Online]. Available: <https://digitalcommons.unl.edu/scholcom/9>
- [3] N. Bernard, J. Weber, G. Forestier, M. Hassenforder, and B. Latard, "Knowledge-Based Categorization of Scientific Articles for Similarity Predictions," in *Digital Libraries for Open Knowledge*, M. Hall, T. Merčun, T. Risse, and F. Duchateau, Eds., in Lecture Notes in Computer Science. Cham: Springer International Publishing, 2020, pp. 147–160. doi: 10.1007/978-3-030-54956-5\_11.
- [4] A. A. Salatino, F. Osborne, T. Thanapalasingam, and E. Motta, "The CSO Classifier: Ontology-Driven Detection of Research Topics in Scholarly Articles," in *Digital Libraries for Open Knowledge*, A. Doucet, A. Isaac, K. Golub, T. Aalberg, and A. Jatowt, Eds., in Lecture Notes in Computer Science. Cham: Springer International Publishing, 2019, pp. 296–311. doi: 10.1007/978-3-030-30760-8\_26.
- [5] X. Bai, M. Wang, I. Lee, Z. Yang, X. Kong, and F. Xia, "Scientific Paper Recommendation: A Survey," *IEEE Access*, vol. 7, pp. 9324–9339, 2019, doi: 10.1109/ACCESS.2018.2890388.
- [6] S. E. Middleton, D. C. De Roure, and N. R. Shadbolt, "Capturing knowledge of user preferences: ontologies in recommender systems," in *Proceedings of the 1st international conference on Knowledge capture*, in K-CAP '01. New York, NY, USA: Association for Computing Machinery, Oct. 2001, pp. 100–107. doi: 10.1145/500737.500755.
- [7] I. Cantador, A. Bellogin, and P. Castells, "Ontology-Based Personalised and Context-Aware Recommendations of News Items," in *2008 IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology*, Dec. 2008, pp. 562–565. doi: 10.1109/WIIAT.2008.204.
- [8] Jian-Bo Gao, Bao-Wen Zhang, and Xiao-Hua Chen, "Ontology-based semantic similarity: A new approach based on analysis of the concept intent," in *2013 International Conference on Machine Learning and Cybernetics*, Jul. 2013, pp. 676–681. doi: 10.1109/ICMLC.2013.6890375.
- [9] E. V. Koonin and M. Y. Galperin, *Sequence - Evolution - Function: Computational Approaches in Comparative Genomics*. Boston: Kluwer Academic, 2003. Accessed: Jul. 01, 2024. [Online]. Available: <http://www.ncbi.nlm.nih.gov/books/NBK20260/>
- [10] M. Kanehisa and S. Goto, "KEGG: Kyoto Encyclopedia of Genes and Genomes," *Nucleic Acids Res.*, vol. 28, no. 1, pp. 27–30, Jan. 2000, doi: 10.1093/nar/28.1.27.
- [11] E. Petrakis, G. Varelas, A. Hliaoutakis, and P. Raftopoulou, "X-Similarity: Computing Semantic Similarity between Concepts from Different Ontologies.," *JDIM*, vol. 4, pp. 233–237, Dec. 2006.
- [12] A. Rodriguez and M. Egenhofer, "Determining Semantic Similarity among Entity Classes from Different Ontologies," *Knowl. Data Eng. IEEE Trans. On*, vol. 15, pp. 442–456, Apr. 2003, doi: 10.1109/TKDE.2003.1185844.
- [13] A. A. Salatino, T. Thanapalasingam, A. Mannocci, F. Osborne, and E. Motta, "The Computer Science Ontology: A Large-Scale Taxonomy of Research Areas," in *The Semantic Web – ISWC 2018*, D. Vrandečić, K. Bontcheva, M. C. Suárez-Figueroa, V. Presutti, I. Celino, M. Sabou, L.-A. Kaffee, and E. Simperl, Eds., Cham: Springer International Publishing, 2018, pp. 187–205. doi: 10.1007/978-3-030-00668-6\_12.
- [14] F. Osborne and E. Motta, "Klink-2: Integrating Multiple Web Sources to Generate Semantic Topic Networks," in *The Semantic Web - ISWC 2015*, M. Arenas, O. Corcho, E. Simperl, M. Strohmaier, M. d'Aquin, K. Srinivas, P. Groth, M. Dumontier, J.

- Heflin, K. Thirunarayan, K. Thirunarayan, and S. Staab, Eds., Cham: Springer International Publishing, 2015, pp. 408–424. doi: 10.1007/978-3-319-25007-6\_24.
- [15] F. Osborne, E. Motta, and P. Mulholland, “Exploring Scholarly Data with Rexplore,” in *The Semantic Web – ISWC 2013*, H. Alani, L. Kagal, A. Fokoue, P. Groth, C. Biemann, J. X. Parreira, L. Aroyo, N. Noy, C. Welty, and K. Janowicz, Eds., Berlin, Heidelberg: Springer, 2013, pp. 460–477. doi: 10.1007/978-3-642-41335-3\_29.
- [16] A. Salatino, F. Osborne, and E. Motta, “CSO Classifier 3.0: a scalable unsupervised method for classifying documents in terms of research topics,” *Int. J. Digit. Libr.*, vol. 23, no. 1, pp. 91–110, Mar. 2022, doi: 10.1007/s00799-021-00305-y.
- [17] F. Osborne, A. Salatino, A. Birukou, and E. Motta, “Smart Topic Miner: Supporting Springer Nature Editors with Semantic Web Technologies,” presented at the International Semantic Web Conference (ISWC 2016), Kobe, Japan, 2016. Accessed: Jun. 15, 2024. [Online]. Available: <https://oro.open.ac.uk/47086/>
- [18] F. Osborne, T. Thanapalasingam, A. Salatino, A. Birukou, and E. Motta, “Smart Book Recommender: A Semantic Recommendation Engine for Editorial Products,” presented at the International Semantic Web Conference (ISWC) 2017, Vienna, Austria, 2017. Accessed: Jun. 15, 2024. [Online]. Available: <https://oro.open.ac.uk/50892/>
- [19] A. Salatino, T. Thanapalasingam, A. Mannocci, F. Osborne, and E. Motta, “Classifying Research Papers with the Computer Science Ontology,” presented at the International Semantic Web Conference 2018, M. van Erp, Ed., Monterey, CA (USA), Oct. 2018. Accessed: Jun. 15, 2024. [Online]. Available: <http://iswc2018.semanticweb.org/sessions/classifying-research-papers-with-the-computer-science-ontology/>
- [20] R. Rada, H. Mili, E. Bicknell, and M. Blettner, “Development and application of a metric on semantic nets,” *IEEE Trans. Syst. Man Cybern.*, vol. 19, no. 1, Art. no. 1, Jan. 1989, doi: 10.1109/21.24528.
- [21] Z. Wu and M. Palmer, “Verb Semantics and Lexical Selection,” Jun. 23, 1994, *arXiv: arXiv:cmp-lg/9406033*. doi: 10.48550/arXiv.cmp-lg/9406033.
- [22] D. Lin, “An Information-Theoretic Definition of Similarity,” in *Proceedings of the Fifteenth International Conference on Machine Learning*, in ICML ’98. San Francisco, CA, USA: Morgan Kaufmann Publishers Inc., Jul. 1998, pp. 296–304.
- [23] P. Resnik, “Semantic Similarity in a Taxonomy: An Information-Based Measure and its Application to Problems of Ambiguity in Natural Language,” *J. Artif. Intell. Res.*, vol. 11, pp. 95–130, Jul. 1999, doi: 10.1613/jair.514.
- [24] S. Banerjee and T. Pedersen, “Extended gloss overlaps as a measure of semantic relatedness,” in *Proceedings of the 18th international joint conference on Artificial intelligence*, in IJCAI’03. San Francisco, CA, USA: Morgan Kaufmann Publishers Inc., Aug. 2003, pp. 805–810.
- [25] B. Liu, M. Hu, and J. Cheng, “Opinion observer: analyzing and comparing opinions on the Web,” in *Proceedings of the 14th international conference on World Wide Web*, in WWW ’05. New York, NY, USA: Association for Computing Machinery, May 2005, pp. 342–351. doi: 10.1145/1060745.1060797.
- [26] G. Carenini, R. T. Ng, and E. Zwart, “Extracting knowledge from evaluative text,” in *Proceedings of the 3rd international conference on Knowledge capture*, in K-CAP ’05. New York, NY, USA: Association for Computing Machinery, Oct. 2005, pp. 11–18. doi: 10.1145/1088622.1088626.
- [27] “RDF 1.1 Concepts and Abstract Syntax.” Accessed: Jul. 22, 2024. [Online]. Available: <https://www.w3.org/TR/rdf11-concepts/#section-triples>
- [28] D. Jannach, M. Zanker, A. Felfernig, and G. Friedrich, *Recommender Systems: An Introduction*, Illustrated edition. New York: Cambridge University Press, 2010.
- [29] T. Thanapalasingam, F. Osborne, A. Birukou, and E. Motta, “Ontology-Based Recommendation of Editorial Products,” in *The Semantic Web – ISWC 2018*, D. Vrandečić, K. Bontcheva, M. C. Suárez-Figueroa, V. Presutti, I. Celino, M. Sabou, L.-A. Kaffee, and E. Simperl, Eds., in Lecture Notes in Computer Science. Cham:

- Springer International Publishing, 2018, pp. 341–358. doi: 10.1007/978-3-030-00668-6\_21.
- [30] F. Osborne, T. Thanapalasingam, A. Salatino, A. Birukou, and E. Motta, “Smart Book Recommender: A Semantic Recommendation Engine for Editorial Products,” presented at the International Semantic Web Conference (ISWC) 2017, Vienna, Austria, 2017. Accessed: May 29, 2022. [Online]. Available: <http://oro.open.ac.uk/50892/>
- [31] “Cosine Similarity,” 2016. [Online]. Available: [https://en.wikipedia.org/wiki/Cosine\\_similarity](https://en.wikipedia.org/wiki/Cosine_similarity)”.
- [32] S. B. K. G. K. J. and R. J., “Item-based Collaborative Filtering Recommendation Algorithms,” *Proc 10th*, vol. 1, pp. 285–295, 2001.
- [33] Xiaoyuan and T. M. Khoshgoftaar, “A Survey of Collaborative Filtering Techniques Xiaoyuan,” 2009.
- [34] “10 metrics to evaluate recommender and ranking systems”, [Online]. Available: <https://www.evidentlyai.com/ranking-metrics/evaluating-recommender-systems#precision-at-k>
- [35] S. Shan, V. A. Baskaran, H. Yi, J. Ranek, N. Stanley, and J. B. Oliva, “Transparent single-cell set classification with kernel mean embeddings,” in *Proceedings of the 13th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics*, in BCB ’22. New York, NY, USA: Association for Computing Machinery, Aug. 2022, pp. 1–10. doi: 10.1145/3535508.3545538.
- [36] “WordNet Domains.” Accessed: Jun. 23, 2024. [Online]. Available: <https://wndomains.fbk.eu/hierarchy.html>
- [37] “From Frequency to Meaning: Vector Space Models of Semantics | Journal of Artificial Intelligence Research.” Accessed: Jul. 01, 2024. [Online]. Available: <https://www.jair.org/index.php/jair/article/view/10640>
- [38] S. Deerwester, S. T. Dumais, G. W. Furnas, T. K. Landauer, and R. Harshman, “Indexing by latent semantic analysis,” *J. Am. Soc. Inf. Sci.*, vol. 41, no. 6, pp. 391–407, 1990, doi: 10.1002/(SICI)1097-4571(199009)41:6<391::AID-ASII>3.0.CO;2-9.
- [39] J. Qiu, M. Moh, and T.-S. Moh, “Fast streaming translation using machine learning with transformer,” in *Proceedings of the 2021 ACM Southeast Conference*, in ACMSE ’21. New York, NY, USA: Association for Computing Machinery, May 2021, pp. 9–16. doi: 10.1145/3409334.3452059.
- [40] I. Isewon, E. Alagbe, S. Rotimi, and J. Oyelade, “A Multi-Omics Classifier For Prediction Of Androgen Deprivation Treatment Response In Prostate Cancer Patients,” in *2022 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, Dec. 2022, pp. 749–752. doi: 10.1109/BIBM55620.2022.9995633.
- [41] A. Yurovsky, J. Gardin, B. Futcher, and S. Skiena, “Statistical methodology for ribosomal frameshift detection,” in *Proceedings of the 13th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics*, in BCB ’22. New York, NY, USA: Association for Computing Machinery, Aug. 2022, pp. 1–10. doi: 10.1145/3535508.3545529.
- [42] D. Sánchez, M. Batet, D. Isern, and A. Valls, “Ontology-based semantic similarity: A new feature-based approach,” *Expert Syst. Appl.*, vol. 39, no. 9, pp. 7718–7728, Jul. 2012, doi: 10.1016/j.eswa.2012.01.082.