

## REFERENCES

- [1]“Microsoft Academic Graph.” <https://www.microsoft.com/en-us/research/project/microsoft-academic-graph/>.
- [2]J. Hou, H. Pan, T. Guo, I. Lee, X. Kong, and F. Xia, “Prediction Methods and Applications in the Science of Science: A Survey,” *Comput. Sci. Rev.*, vol. 34, p. 100197, Nov. 2019, doi: 10.1016/j.cosrev.2019.100197.
- [3]S. Xiao *et al.*, “On modeling and predicting individual paper citation count over time,” in *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence*, New York, New York, USA, Jul. 2016, pp. 2676–2682, Accessed: Jan. 13, 2021. [Online].
- [4]T. A. Judge, D. M. Cable, A. E. Colbert, and S. L. Rynes, “What Causes a Management Article to be Cited—Article, Author, or Journal?,” *Acad. Manage. J.*, vol. 50, no. 3, pp. 491–506, Jun. 2007, doi: 10.5465/amj.2007.25525577.
- [5]A. Ibanez, P. Larranaga, and C. Bielza, “Predicting citation count of Bioinformatics papers within four years of publication,” *Bioinformatics*, vol. 25, no. 24, pp. 3303–3309, Dec. 2009, doi: 10.1093/bioinformatics/btp585.
- [6]J. Kelly, T. Sadeghieh, and K. Adeli, “Peer Review in Scientific Publications: Benefits, Critiques, & A Survival Guide,” *EJIFCC*, vol. 25, no. 3, pp. 227–243, Oct. 2014.
- [7]L. Bornmann and H. Daniel, “What do citation counts measure? A review of studies on citing behavior,” *J. Doc.*, vol. 64, no. 1, pp. 45–80, Jan. 2008, doi: 10.1108/00220410810844150.
- [8]“Compensation Strategy: COMPENSATION, ORGANIZATIONAL STRATEGY, AND FIRM PERFORMANCE. By Luis R. Gomez-Mejia and David B. Balkin. South-Western Publishing Co., 1992, 423 pp., \$35.25,” *Compens. Benefits Rev.*, vol. 24, no. 5, pp. 79–80, Sep. 1992, doi: 10.1177/088636879202400519.

- [9]N. S. Endler, J. P. Rushton, and H. L. Roediger, “Productivity and scholarly impact (citations) of British, Canadian, and U.S. departments of psychology (1975).,” *Am. Psychol.*, vol. 33, no. 12, pp. 1064–1082, 1978, doi: 10.1037/0003-066X.33.12.1064.
- [10]L. D. Fu and C. Aliferis, “Models for predicting and explaining citation count of biomedical articles,” *AMIA Annu. Symp. Proc. AMIA Symp.*, pp. 222–226, Nov. 2008.
- [11]Q. Ke, E. Ferrara, F. Radicchi, and A. Flammini, “Defining and identifying Sleeping Beauties in science,” *Proc. Natl. Acad. Sci.*, vol. 112, no. 24, pp. 7426–7431, Jun. 2015, doi: 10.1073/pnas.1424329112.
- [12]A. Livne, E. Adar, J. Teevan, and S. Dumais, “Predicting Citation Counts Using Text and Graph Mining,” Feb. 2013, Accessed: Mar. 17, 2021. [Online]. Available: <https://www.microsoft.com/en-us/research/publication/predicting-citation-counts-using-text-graph-mining/>.
- [13]N. Pobiedina and R. Ichise, “Citation count prediction as a link prediction problem,” *Appl. Intell.*, vol. 44, no. 2, pp. 252–268, Mar. 2016, doi: 10.1007/s10489-015-0657-y.
- [14]L. Smith, “Citation Analysis,” *Libr. Trends*, pp. 83–106, 1981, [Online]. Available: <http://hdl.handle.net/2142/7190>.
- [15]E. Garfield, “Is citation analysis a legitimate evaluation tool?,” *Scientometrics*, vol. 1, no. 4, pp. 359–375, May 1979, doi: 10.1007/BF02019306.
- [16]R. Yan, J. Tang, X. Liu, D. Shan, and X. Li, “Citation count prediction: learning to estimate future citations for literature,” in *Proceedings of the 20th ACM international conference on Information and knowledge management - CIKM '11*, Glasgow, Scotland, UK, 2011, p. 1247, doi: 10.1145/2063576.2063757.
- [17]J. E. Hirsch, “An index to quantify an individual’s scientific research output,” *Proc. Natl. Acad. Sci.*, vol. 102, no. 46, pp. 16569–16572, Nov. 2005, doi: 10.1073/pnas.0507655102.

- [18]L. Egghe, “Theory and practise of the g-index,” *Scientometrics*, vol. 69, no. 1, pp. 131–152, Oct. 2006, doi: 10.1007/s11192-006-0144-7.
- [19]R. Yan, C. Huang, J. Tang, Y. Zhang, and X. Li, “To better stand on the shoulder of giants,” in *Proceedings of the 12th ACM/IEEE-CS joint conference on Digital Libraries - JCDL '12*, Washington, DC, USA, 2012, p. 51, doi: 10.1145/2232817.2232831.
- [20]C. Castillo, D. Donato, and A. Gionis, “Estimating Number of Citations Using Author Reputation,” in *String Processing and Information Retrieval*, vol. 4726, N. Ziviani and R. Baeza-Yates, Eds. Berlin, Heidelberg: Springer Berlin Heidelberg, 2007, pp. 107–117.
- [21]T. Brody, S. Harnad, and L. Carr, “Earlier Web usage statistics as predictors of later citation impact,” *J. Am. Soc. Inf. Sci. Technol.*, vol. 57, no. 8, pp. 1060–1072, Jun. 2006, doi: 10.1002/asi.20373.
- [22]X. Ruan, Y. Zhu, J. Li, and Y. Cheng, “Predicting the citation counts of individual papers via a BP neural network,” *J. Informetr.*, vol. 14, no. 3, p. 101039, Aug. 2020, doi: 10.1016/j.joi.2020.101039.
- [23]H. S. Bhat, L.-H. Huang, S. Rodriguez, R. Dale, and E. Heit, “Citation Prediction Using Diverse Features,” in *2015 IEEE International Conference on Data Mining Workshop (ICDMW)*, Atlantic City, NJ, USA, Nov. 2015, pp. 589–596, doi: 10.1109/ICDMW.2015.131.
- [24]C.-T. Li, Y.-J. Lin, R. Yan, and M.-Y. Yeh, “Trend-Based Citation Count Prediction for Research Articles,” in *Advances in Knowledge Discovery and Data Mining*, vol. 9077, T. Cao, E.-P. Lim, Z.-H. Zhou, T.-B. Ho, D. Cheung, and H. Motoda, Eds. Cham: Springer International Publishing, 2015, pp. 659–671.
- [25]T. Chakraborty, S. Kumar, P. Goyal, N. Ganguly, and A. Mukherjee, “Towards a stratified learning approach to predict future citation counts,” in *IEEE/ACM Joint Conference on Digital Libraries*, London, United Kingdom, Sep. 2014, pp. 351–

360, doi: 10.1109/JCDL.2014.6970190.

- [26]G. Abramo, C. A. D'Angelo, and G. Felici, "Predicting long-term publication impact through a combination of early citations and journal impact factor," *J. Informetr.*, vol. 13, no. 1, pp. 32–49, Feb. 2019, doi: 10.1016/j.joi.2018.11.003.
- [27]J. Priem, D. Taraborelli, P. Groth, and C. Neylon, "altmetrics: a manifesto," Oct. 26, 2010. <http://altmetrics.org/manifesto/>.
- [28]M. K. Cheung, "Altmetrics: Too soon for use in assessment," *Nature*, vol. 494, no. 7436, pp. 176–176, Feb. 2013, doi: 10.1038/494176d.
- [29]S.-U. Hassan *et al.*, "Predicting literature's early impact with sentiment analysis in Twitter," *Knowl.-Based Syst.*, vol. 192, p. 105383, Mar. 2020, doi: 10.1016/j.knosys.2019.105383.
- [30]A. P. Akella, H. Alhoori, P. R. Kondamudi, C. Freeman, and H. Zhou, "Early Indicators of Scientific Impact: Predicting Citations with Altmetrics," *ArXiv201213599 Cs*, Dec. 2020, Accessed: Mar. 26, 2021. [Online]. Available: <http://arxiv.org/abs/2012.13599>.
- [31]"Mendeley." <https://www.mendeley.com/>.
- [32]S. Yuan, J. Tang, Y. Zhang, Y. Wang, and T. Xiao, "Modeling and Predicting Citation Count via Recurrent Neural Network with Long Short-Term Memory," *ArXiv181102129 Phys.*, Nov. 2018, Accessed: Jan. 14, 2021. [Online]. Available: <http://arxiv.org/abs/1811.02129>.
- [33]A. Abrishami and S. Aliakbary, "Predicting citation counts based on deep neural network learning techniques," *J. Informetr.*, vol. 13, no. 2, pp. 485–499, May 2019, doi: 10.1016/j.joi.2019.02.011.
- [34]S. Li, W. X. Zhao, E. J. Yin, and J.-R. Wen, "A Neural Citation Count Prediction Model based on Peer Review Text," in *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, Hong

- Kong, China, 2019, pp. 4913–4923, doi: 10.18653/v1/D19-1497.
- [35]“Google Scholar.” <https://scholar.google.com/>.
- [36]J. Wen, L. Wu, and J. Chai, “Paper Citation Count Prediction Based on Recurrent Neural Network with Gated Recurrent Unit,” in *2020 IEEE 10th International Conference on Electronics Information and Emergency Communication (ICEIEC)*, Beijing, China, Jul. 2020, pp. 303–306, doi: 10.1109/ICEIEC49280.2020.9152330.
- [37]D. Cummings and M. Nassar, “Structured Citation Trend Prediction Using Graph Neural Networks,” in *ICASSP 2020 - 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Barcelona, Spain, May 2020, pp. 3897–3901, doi: 10.1109/ICASSP40776.2020.9054769.
- [38]A. N. Holm, B. Plank, D. Wright, and I. Augenstein, “Longitudinal Citation Prediction using Temporal Graph Neural Networks,” *ArXiv201205742 Cs*, Dec. 2020, Accessed: Mar. 21, 2021. [Online]. Available: <http://arxiv.org/abs/2012.05742>.
- [39]I. Beltagy, K. Lo, and A. Cohan, “SciBERT: A Pretrained Language Model for Scientific Text,” *ArXiv190310676 Cs*, Sep. 2019, Accessed: Mar. 22, 2021. [Online]. Available: <http://arxiv.org/abs/1903.10676>.
- [40]J. Devlin, M.-W. Chang, K. Lee, and K. Toutanova, “BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding,” *ArXiv181004805 Cs*, May 2019, Accessed: Mar. 22, 2021. [Online]. Available: <http://arxiv.org/abs/1810.04805>.
- [41]S. Redner, “Citation Statistics from 110 Years of Physical Review,” *Phys. Today*, vol. 58, no. 6, pp. 49–54, Jun. 2005, doi: 10.1063/1.1996475.
- [42]D. Wang, C. Song, and A.-L. Barabási, “Quantifying Long-Term Scientific Impact,” *Science*, vol. 342, no. 6154, pp. 127–132, Oct. 2013, doi: 10.1126/science.1237825.

- [43]H.-W. Shen, D. Wang, C. Song, and A.-L. Barabási, “Modeling and Predicting Popularity Dynamics via Reinforced Poisson Processes,” *ArXiv14010778 Phys.*, Jan. 2014, Accessed: Mar. 24, 2021. [Online]. Available: <http://arxiv.org/abs/1401.0778>.
- [44]L. Liu, D. Yu, D. Wang, and F. Fukumoto, “Citation Count Prediction Based on Neural Hawkes Model,” *IEICE Trans. Inf. Syst.*, vol. E103.D, no. 11, pp. 2379–2388, Nov. 2020, doi: 10.1587/transinf.2020EDP7051.
- [45]H. Mei and J. Eisner, “The Neural Hawkes Process: A Neurally Self-Modulating Multivariate Point Process,” *ArXiv161209328 Cs Stat*, Nov. 2017, Accessed: Mar. 24, 2021. [Online]. Available: <http://arxiv.org/abs/1612.09328>.
- [46]X. Cao, Y. Chen, and K. J. Ray Liu, “A data analytic approach to quantifying scientific impact,” *J. Informetr.*, vol. 10, no. 2, pp. 471–484, May 2016, doi: 10.1016/j.joi.2016.02.006.
- [47]“Project Academic Knowledge.” <https://docs.microsoft.com/en-us/academic-services/project-academic-knowledge/reference-evaluate-method>.
- [48]E. Yan and Y. Ding, “Weighted citation: An indicator of an article’s prestige,” *J. Am. Soc. Inf. Sci. Technol.*, p. n/a-n/a, 2010, doi: 10.1002/asi.21349.
- [49]W.-R. Hou, M. Li, and D.-K. Niu, “Counting citations in texts rather than reference lists to improve the accuracy of assessing scientific contribution: Citation frequency of individual articles in other papers more fairly measures their scientific contribution than mere presence in reference lists,” *BioEssays*, vol. 33, no. 10, pp. 724–727, Oct. 2011, doi: 10.1002/bies.201100067.
- [50]H. Sayyadi and L. Getoor, “FutureRank: Ranking Scientific Articles by Predicting their Future PageRank,” in *Proceedings of the 2009 SIAM International Conference on Data Mining*, Apr. 2009, pp. 533–544, doi: 10.1137/1.9781611972795.46.
- [51]H. Zhu, X. Wang, and J.-Y. Zhu, “Effect of aging on network structure,” *Phys. Rev. E*, vol. 68, no. 5, p. 056121, Nov. 2003, doi: 10.1103/PhysRevE.68.056121.

- [52]G. M. de B. Wenniger, T. van Dongen, E. Aedmaa, H. T. Kruitbosch, E. A. Valentijn, and L. Schomaker, “Structure-Tags Improve Text Classification for Scholarly Document Quality Prediction,” *Proc. First Workshop Sch. Doc. Process.*, pp. 158–167, 2020, doi: 10.18653/v1/2020.sdp-1.18.
- [53]“scikit-learn - Machine Learning in Python.” <https://scikit-learn.org/stable/>.
- [54]D. P. Kingma and J. Ba, “Adam: A Method for Stochastic Optimization,” *ArXiv14126980 Cs*, Jan. 2017, Accessed: Mar. 21, 2021. [Online]. Available: <http://arxiv.org/abs/1412.6980>.
- [55]“pytorch.” <https://pytorch.org/>.
- [56]W. L. Hamilton, R. Ying, and J. Leskovec, “Inductive Representation Learning on Large Graphs,” *ArXiv170602216 Cs Stat*, Sep. 2018, Accessed: May 12, 2021. [Online]. Available: <http://arxiv.org/abs/1706.02216>
- [57]J. Du, S. Zhang, G. Wu, J. M. F. Moura, and S. Kar, “Topology Adaptive Graph Convolutional Networks,” *ArXiv171010370 Cs Stat*, Feb. 2018, Accessed: May 12, 2021. [Online]. Available: <http://arxiv.org/abs/1710.10370>
- [58]D. Oniani, C. Wang, Y. Zhao, A. Wen, H. Liu, and F. Shen, “Comparisons of Graph Neural Networks on Cancer Classification Leveraging a Joint of Phenotypic and Genetic Features,” *ArXiv210105866 Cs Q-Bio*, Jan. 2021, Accessed: May 15, 2021. [Online]. Available: <http://arxiv.org/abs/2101.05866>
- [59]M. Cheung, J. Shi, L. Y. Jiang, O. Wright, and J. M. F. Moura, “Pooling in Graph Convolutional Neural Networks,” *ArXiv200403519 Cs Eess*, Apr. 2020, Accessed: May 15, 2021. [Online]. Available: <http://arxiv.org/abs/2004.03519>
- [60]“Pytorch geometric.” <https://pytorch-geometric.readthedocs.io/en/latest/>
- [61]“Google Colab.” <https://colab.research.google.com/>