

Bibliography

- [1] F. Ricci, L. Rokach, and B. Shapira, “Introduction to recommender systems handbook,” in *Recommender systems handbook*. Springer, 2011, pp. 1–35.
- [2] G. Adomavicius and A. Tuzhilin, “Context-aware recommender systems,” in *Recommender systems handbook*. Springer, 2011, pp. 217–253.
- [3] J. Bobadilla, F. Ortega, A. Hernando, and A. Gutiérrez, “Recommender systems survey,” *Knowledge-based systems*, vol. 46, pp. 109–132, 2013.
- [4] G. Adomavicius and A. Tuzhilin, “Toward the next generation of recommender systems: A survey of the state-of-the-art and possible extensions,” *IEEE transactions on knowledge and data engineering*, vol. 17, no. 6, pp. 734–749, 2005.
- [5] A. Felfernig, L. Boratto, M. Stettinger, and M. Tkalčič, *Group recommender systems: An introduction*. Springer, 2018.
- [6] P. Resnick and H. R. Varian, “Recommender systems,” *Communications of the ACM*, vol. 40, no. 3, pp. 56–58, 1997.
- [7] R. Burke, “Hybrid recommender systems: Survey and experiments,” *User modeling and user-adapted interaction*, vol. 12, no. 4, pp. 331–370, 2002.
- [8] R. G. Crespo, O. S. Martínez, J. M. C. Lovelle, B. C. P. García-Bustelo, J. E. L. Gayo, and P. O. De Pablos, “Recommendation system based on user interaction data applied to intelligent electronic books,” *Computers in human behavior*, vol. 27, no. 4, pp. 1445–1449, 2011.
- [9] E. R. Núñez-Valdéz, J. M. C. Lovelle, O. S. Martínez, V. García-Díaz, P. O. De Pablos, and C. E. M. Marín, “Implicit feedback techniques on recommender systems

- applied to electronic books,” *Computers in Human Behavior*, vol. 28, no. 4, pp. 1186–1193, 2012.
- [10] Z. Wu, J. Wu, J. Cao, and D. Tao, “Hysad: A semi-supervised hybrid shilling attack detector for trustworthy product recommendation,” in *Proceedings of the 18th ACM SIGKDD international conference on Knowledge discovery and data mining*, 2012, pp. 985–993.
- [11] J. J. Castro-Schez, R. Miguel, D. Vallejo, and L. M. López-López, “A highly adaptive recommender system based on fuzzy logic for b2c e-commerce portals,” *Expert Systems with Applications*, vol. 38, no. 3, pp. 2441–2454, 2011.
- [12] M. N. Moreno, S. Segrera, V. F. López, M. D. Muñoz, and Á. L. Sánchez, “Web mining based framework for solving usual problems in recommender systems. a case study for movies? recommendation,” *Neurocomputing*, vol. 176, pp. 72–80, 2016.
- [13] Y. Moshfeghi, D. Agarwal, B. Piwowarski, and J. M. Jose, “Movie recommender: Semantically enriched unified relevance model for rating prediction in collaborative filtering,” in *European Conference on Information Retrieval*. Springer, 2009, pp. 54–65.
- [14] T. Mei, B. Yang, X.-S. Hua, and S. Li, “Contextual video recommendation by multimodal relevance and user feedback,” *ACM Transactions on Information Systems (TOIS)*, vol. 29, no. 2, pp. 1–24, 2011.
- [15] B. Chen, J. Wang, Q. Huang, and T. Mei, “Personalized video recommendation through tripartite graph propagation,” in *Proceedings of the 20th ACM international conference on Multimedia*, 2012, pp. 1133–1136.
- [16] S. K. Lee, Y. H. Cho, and S. H. Kim, “Collaborative filtering with ordinal scale-based implicit ratings for mobile music recommendations,” *Information Sciences*, vol. 180, no. 11, pp. 2142–2155, 2010.
- [17] A. Nanopoulos, D. Rafailidis, P. Symeonidis, and Y. Manolopoulos, “Musicbox: Personalized music recommendation based on cubic analysis of social tags,” *IEEE Transactions on Audio, Speech, and Language Processing*, vol. 18, no. 2, pp. 407–412, 2009.

- [18] W. Chen, Z. Niu, X. Zhao, and Y. Li, “A hybrid recommendation algorithm adapted in e-learning environments,” *World Wide Web*, vol. 17, no. 2, pp. 271–284, 2014.
- [19] J. Bobadilla, F. Serradilla, A. Hernando *et al.*, “Collaborative filtering adapted to recommender systems of e-learning,” *Knowledge-Based Systems*, vol. 22, no. 4, pp. 261–265, 2009.
- [20] J. Priem, “Scholarship: Beyond the paper,” *Nature*, vol. 495, no. 7442, p. 437, 2013.
- [21] Z. Wu, J. Wu, M. Khabsa, K. Williams, H.-H. Chen, W. Huang, S. Tuarob, S. R. Choudhury, A. Ororbia, P. Mitra *et al.*, “Towards building a scholarly big data platform: Challenges, lessons and opportunities,” in *Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries*. IEEE Press, 2014, pp. 117–126.
- [22] M. Khabsa and C. L. Giles, “The number of scholarly documents on the public web,” *PloS one*, vol. 9, no. 5, 2014.
- [23] F. Xia, W. Wang, T. M. Bekele, and H. Liu, “Big scholarly data: A survey,” *IEEE Transactions on Big Data*, vol. 3, no. 1, pp. 18–35, 2017.
- [24] X. Kong, H. Jiang, Z. Yang, Z. Xu, F. Xia, and A. Tolba, “Exploiting publication contents and collaboration networks for collaborator recommendation,” *PloS one*, vol. 11, no. 2, p. e0148492, 2016.
- [25] F. Xia, Z. Chen, W. Wang, J. Li, and L. T. Yang, “Mvewalker: Random walk-based most valuable collaborators recommendation exploiting academic factors,” *IEEE Transactions on Emerging Topics in Computing*, vol. 2, no. 3, pp. 364–375, 2014.
- [26] Y. Sebastian, E.-G. Siew, and S. O. Orimaye, “Learning the heterogeneous bibliographic information network for literature-based discovery,” *Knowledge-Based Systems*, vol. 115, pp. 66–79, 2017.
- [27] G. Wang, X. He, and C. I. Ishuga, “Har-si: A novel hybrid article recommendation approach integrating with social information in scientific social network,” *Knowledge-Based Systems*, vol. 148, pp. 85–99, 2018.

- [28] H. Liu, X. Kong, X. Bai, W. Wang, T. M. Bekele, and F. Xia, “Context-based collaborative filtering for citation recommendation,” *IEEE Access*, vol. 3, pp. 1695–1703, 2015.
- [29] W. Huang, Z. Wu, L. Chen, P. Mitra, and C. L. Giles, “A neural probabilistic model for context based citation recommendation.” in *AAAI*, 2015, pp. 2404–2410.
- [30] Z. Yang, D. Yin, and B. D. Davison, “Recommendation in academia: A joint multi-relational model,” in *Advances in Social Networks Analysis and Mining (ASONAM), 2014 IEEE/ACM International Conference on*. IEEE, 2014, pp. 566–571.
- [31] S. Yu, J. Liu, Z. Yang, Z. Chen, H. Jiang, A. Tolba, and F. Xia, “Pave: Personalized academic venue recommendation exploiting co-publication networks,” *Journal of Network and Computer Applications*, vol. 104, pp. 38–47, 2018.
- [32] Z. Lu, N. Xie, and W. J. Wilbur, “Identifying related journals through log analysis,” *Bioinformatics*, vol. 25, no. 22, pp. 3038–3039, 2009.
- [33] D. Wang, Y. Liang, D. Xu, X. Feng, and R. Guan, “A content-based recommender system for computer science publications,” *Knowledge-Based Systems*, vol. 157, pp. 1–9, 2018.
- [34] Z. Liu, X. Xie, and L. Chen, “Context-aware academic collaborator recommendation,” in *Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining*. ACM, 2018, pp. 1870–1879.
- [35] D. Liang, L. Charlin, J. McInerney, and D. M. Blei, “Modeling user exposure in recommendation,” in *Proceedings of the 25th International Conference on World Wide Web*. International World Wide Web Conferences Steering Committee, 2016, pp. 951–961.
- [36] H. Alhoori and R. Furuta, “Recommendation of scholarly venues based on dynamic user interests,” *Journal of Informetrics*, vol. 11, no. 2, pp. 553–563, 2017.
- [37] X. Kong, M. Mao, J. Liu, B. Xu, R. Huang, and Q. Jin, “Tnrec: Topic-aware network embedding for scientific collaborator recommendation,” in *2018 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced*

- ℰ Trusted Computing, Scalable Computing ℰ Communications, Cloud ℰ Big Data Computing, Internet of People and Smart City Innovation (Smart-World/SCALCOM/UIC/ATC/CBDCom/IOP/SCI)*. IEEE, 2018, pp. 1007–1014.
- [38] F. Yu, A. Zeng, S. Gillard, and M. Medo, “Network-based recommendation algorithms: A review,” *CoRR*, vol. abs/1511.06252, 2015. [Online]. Available: <http://arxiv.org/abs/1511.06252>
- [39] X. Kong, H. Jiang, W. Wang, T. M. Bekele, Z. Xu, and M. Wang, “Exploring dynamic research interest and academic influence for scientific collaborator recommendation,” *Scientometrics*, vol. 113, no. 1, pp. 369–385, 2017.
- [40] H. Luong, T. Huynh, S. Gauch, L. Do, and K. Hoang, “Publication venue recommendation using author networks publication history,” *Intelligent Information and Database Systems*, pp. 426–435, 2012.
- [41] U. Shardanand and P. Maes, “Social information filtering: algorithms for automating word of mouth,” in *Proceedings of the SIGCHI conference on Human factors in computing systems*, 1995, pp. 210–217.
- [42] G. Adomavicius and J. Zhang, “Improving stability of recommender systems: a meta-algorithmic approach,” *IEEE Transactions on Knowledge and Data Engineering*, vol. 27, no. 6, pp. 1573–1587, 2014.
- [43] M. C. Pham, D. Kovachev, Y. Cao, G. M. Mbogos, and R. Klamma, “Enhancing academic event participation with context-aware and social recommendations,” in *Advances in Social Networks Analysis and Mining (ASONAM), 2012 IEEE/ACM International Conference on*. IEEE, 2012, pp. 464–471.
- [44] D. Herrmannova and P. Knoth, “An analysis of the microsoft academic graph,” *D-Lib Magazine*, vol. 22, no. 9/10, 2016.
- [45] X. Kong, Y. Shi, S. Yu, J. Liu, and F. Xia, “Academic social networks: Modeling, analysis, mining and applications,” *Journal of Network and Computer Applications*, 2019.

- [46] N. M. Villegas, C. Sánchez, J. Díaz-Cely, and G. Tamura, “Characterizing context-aware recommender systems: A systematic literature review,” *Knowledge-Based Systems*, vol. 140, pp. 173–200, 2018.
- [47] R. Klamma, P. M. Cuong, and Y. Cao, “You never walk alone: Recommending academic events based on social network analysis,” *Complex Sciences*, pp. 657–670, 2009.
- [48] M. Hornick and P. Tamayo, “Extending recommender systems for disjoint user/item sets: The conference recommendation problem,” *IEEE Transactions on Knowledge and Data Engineering*, vol. 24, no. 8, pp. 1478–1490, 2012.
- [49] E. Medvet, A. Bartoli, and G. Piccinin, “Publication venue recommendation based on paper abstract,” in *Tools with Artificial Intelligence (ICTAI), 2014 IEEE 26th International Conference on*. IEEE, 2014, pp. 1004–1010.
- [50] N. Kang, M. A. Doornenbal, and R. J. Schijvenaars, “Elsevier journal finder: recommending journals for your paper,” in *Proceedings of the 9th ACM Conference on Recommender Systems*. ACM, 2015, pp. 261–264.
- [51] S. Lee and B. Bozeman, “The impact of research collaboration on scientific productivity,” *Social studies of science*, vol. 35, no. 5, pp. 673–702, 2005.
- [52] C. Xu, “A novel recommendation method based on social network using matrix factorization technique,” *Information Processing & Management*, vol. 54, no. 3, pp. 463–474, 2018.
- [53] H. P. Luong, T. Huynh, S. Gauch, and K. Hoang, “Exploiting social networks for publication venue recommendations.” in *KDIR*, 2012, pp. 239–245.
- [54] X. Zhou, L. Ding, Z. Li, and R. Wan, “Collaborator recommendation in heterogeneous bibliographic networks using random walks,” *Information Retrieval Journal*, vol. 20, no. 4, pp. 317–337, 2017.
- [55] S. Cohen and L. Ebel, “Recommending collaborators using keywords,” in *Proceedings of the 22nd International Conference on World Wide Web*. ACM, 2013, pp. 959–962.

- [56] J. Tang, S. Wu, J. Sun, and H. Su, “Cross-domain collaboration recommendation,” in *Proceedings of the 18th ACM SIGKDD international conference on Knowledge discovery and data mining*. ACM, 2012, pp. 1285–1293.
- [57] D. H. Lee, P. Brusilovsky, and T. Schleyer, “Recommending collaborators using social features and mesh terms,” *Proceedings of the American Society for Information Science and Technology*, vol. 48, no. 1, pp. 1–10, 2011.
- [58] L. Deng, D. Yu *et al.*, “Deep learning: methods and applications,” *Foundations and Trends® in Signal Processing*, vol. 7, no. 3–4, pp. 197–387, 2014.
- [59] Z. Yang and B. D. Davison, “Distinguishing venues by writing styles,” in *Proceedings of the 12th ACM/IEEE-CS joint conference on Digital Libraries*. ACM, 2012, pp. 371–372.
- [60] —, “Venue recommendation: Submitting your paper with style,” in *2012 11th International Conference on Machine Learning and Applications*, vol. 1. IEEE, 2012, pp. 681–686.
- [61] T. Huynh and K. Hoang, “Modeling collaborative knowledge of publishing activities for research recommendation,” *Computational collective intelligence. Technologies and applications*, pp. 41–50, 2012.
- [62] J. Yu, K. Xie, H. Zhao, and F. Liu, “Prediction of user interest based on collaborative filtering for personalized academic recommendation,” in *Computer Science and Network Technology (ICCSNT), 2012 2nd International Conference on*. IEEE, 2012, pp. 584–588.
- [63] A. J. Trappey, C. V. Trappey, C.-Y. Wu, C. Y. Fan, and Y.-L. Lin, “Intelligent patent recommendation system for innovative design collaboration,” *Journal of Network and Computer Applications*, vol. 36, no. 6, pp. 1441–1450, 2013.
- [64] M. Kochen and R. Tagliacozzo, “Matching authors and readers of scientific papers,” *Information Storage and Retrieval*, vol. 10, no. 5-6, pp. 197–210, 1974.
- [65] M. Errami, J. D. Wren, J. M. Hicks, and H. R. Garner, “etblast: a web server to identify expert reviewers, appropriate journals and similar publications,” *Nucleic acids research*, vol. 35, no. suppl_2, pp. W12–W15, 2007.

- [66] M. J. Schuemie and J. A. Kors, “Jane: suggesting journals, finding experts,” *Bioinformatics*, vol. 24, no. 5, pp. 727–728, 2008.
- [67] I. Boukhris and R. Ayachi, “A novel personalized academic venue hybrid recommender,” in *Computational Intelligence and Informatics (CINTI), 2014 IEEE 15th International Symposium on*. IEEE, 2014, pp. 465–470.
- [68] E. Minkov, B. Charrow, J. Ledlie, S. Teller, and T. Jaakkola, “Collaborative future event recommendation,” in *Proceedings of the 19th ACM international conference on Information and knowledge management*. ACM, 2010, pp. 819–828.
- [69] F. Xia, N. Y. Asabere, J. J. Rodrigues, F. Basso, N. Deonauth, and W. Wang, “Socially-aware venue recommendation for conference participants,” in *Ubiquitous Intelligence and Computing, 2013 IEEE 10th International Conference on and 10th International Conference on Autonomic and Trusted Computing (UIC/ATC)*. IEEE, 2013, pp. 134–141.
- [70] W. H. Hsu, A. L. King, M. S. Paradesi, T. Pydimarri, and T. Weninger, “Collaborative and structural recommendation of friends using weblog-based social network analysis.” in *AAAI Spring Symposium: Computational Approaches to Analyzing Weblogs*, vol. 6, 2006, pp. 55–60.
- [71] T. Silva, J. Ma, C. Yang, and H. Liang, “A profile-boosted research analytics framework to recommend journals for manuscripts,” *Journal of the Association for Information Science and Technology*, vol. 66, no. 1, pp. 180–200, 2015.
- [72] M. C. Pham, Y. Cao, and R. Klamma, “Clustering technique for collaborative filtering and the application to venue recommendation,” in *Proc. of I-KNOW*. Citeseer, 2010.
- [73] M. C. Pham, Y. Cao, R. Klamma, and M. Jarke, “A clustering approach for collaborative filtering recommendation using social network analysis.” *J. UCS*, vol. 17, no. 4, pp. 583–604, 2011.
- [74] Z. Chen, F. Xia, H. Jiang, H. Liu, and J. Zhang, “Aver: random walk based academic venue recommendation,” in *Proceedings of the 24th International Conference on World Wide Web*. ACM, 2015, pp. 579–584.

- [75] X. Wang, L. Yu, K. Ren, G. Tao, W. Zhang, Y. Yu, and J. Wang, “Dynamic attention deep model for article recommendation by learning human editors’ demonstration,” in *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. ACM, 2017, pp. 2051–2059.
- [76] T. Ebesu and Y. Fang, “Neural citation network for context-aware citation recommendation,” in *Proceedings of the 40th International ACM SIGIR conference on Research and Development in Information Retrieval*. ACM, 2017, pp. 1093–1096.
- [77] H. A. M. Hassan, “Personalized research paper recommendation using deep learning,” in *Proceedings of the 25th conference on user modeling, adaptation and personalization*. ACM, 2017, pp. 327–330.
- [78] L. Yang, Y. Zheng, X. Cai, H. Dai, D. Mu, L. Guo, and T. Dai, “A lstm based model for personalized context-aware citation recommendation,” *IEEE access*, vol. 6, pp. 59 618–59 627, 2018.
- [79] X. Feng, H. Zhang, Y. Ren, P. Shang, Y. Zhu, Y. Liang, R. Guan, and D. Xu, “The deep learning-based recommender system pubmender for choosing a biomedical publication venue: Development and validation study,” *Journal of medical Internet research*, vol. 21, no. 5, p. e12957, 2019.
- [80] S. D. Gollapalli, P. Mitra, and C. L. Giles, “Similar researcher search in academic environments,” in *Proceedings of the 12th ACM/IEEE-CS joint conference on Digital Libraries*. ACM, 2012, pp. 167–170.
- [81] C. Yang, J. Ma, J. Sun, T. Silva, X. Liu, and Z. Hua, “A weighted topic model enhanced approach for complementary collaborator recommendation.” in *PACIS*, 2014, p. 297.
- [82] H.-H. Chen, L. Gou, X. Zhang, and C. L. Giles, “Collabseer: a search engine for collaboration discovery,” in *Proceedings of the 11th annual international ACM/IEEE joint conference on Digital libraries*. ACM, 2011, pp. 231–240.
- [83] P. Chaiwanarom and C. Lursinsap, “Collaborator recommendation in interdisciplinary computer science using degrees of collaborative forces, temporal evolution

- of research interest, and comparative seniority status,” *Knowledge-Based Systems*, vol. 75, pp. 161–172, 2015.
- [84] C. Yang, J. Sun, J. Ma, S. Zhang, G. Wang, and Z. Hua, “Scientific collaborator recommendation in heterogeneous bibliographic networks,” in *2015 48th Hawaii International Conference on System Sciences*. IEEE, 2015, pp. 552–561.
- [85] G. R. Lopes, M. M. Moro, L. K. Wives, and J. P. M. De Oliveira, “Collaboration recommendation on academic social networks,” in *International Conference on Conceptual Modeling*. Springer, 2010, pp. 190–199.
- [86] J. Li, F. Xia, W. Wang, Z. Chen, N. Y. Asabere, and H. Jiang, “Acreec: a co-authorship based random walk model for academic collaboration recommendation,” in *Proceedings of the 23rd International Conference on World Wide Web*. ACM, 2014, pp. 1209–1214.
- [87] W. Glänzel and A. Schubert, “Analysing scientific networks through co-authorship,” in *Handbook of quantitative science and technology research*. Springer, 2004, pp. 257–276.
- [88] M. E. Newman, “Scientific collaboration networks. i. network construction and fundamental results,” *Physical review E*, vol. 64, no. 1, p. 016131, 2001.
- [89] A.-L. Barabási, H. Jeong, Z. Néda, E. Ravasz, A. Schubert, and T. Vicsek, “Evolution of the social network of scientific collaborations,” *Physica A: Statistical mechanics and its applications*, vol. 311, no. 3-4, pp. 590–614, 2002.
- [90] X. Liu, J. Bollen, M. L. Nelson, and H. Van de Sompel, “Co-authorship networks in the digital library research community,” *Information processing & management*, vol. 41, no. 6, pp. 1462–1480, 2005.
- [91] M. Jamali and M. Ester, “Trustwalker: a random walk model for combining trust-based and item-based recommendation,” in *Proceedings of the 15th ACM SIGKDD international conference on Knowledge discovery and data mining*. ACM, 2009, pp. 397–406.

- [92] I. Konstas, V. Stathopoulos, and J. M. Jose, “On social networks and collaborative recommendation,” in *Proceedings of the 32nd international ACM SIGIR conference on Research and development in information retrieval*. ACM, 2009, pp. 195–202.
- [93] L. Backstrom and J. Leskovec, “Supervised random walks: predicting and recommending links in social networks,” in *Proceedings of the fourth ACM international conference on Web search and data mining*. ACM, 2011, pp. 635–644.
- [94] X. Zhou, W. Liang, I. Kevin, K. Wang, R. Huang, and Q. Jin, “Academic influence aware and multidimensional network analysis for research collaboration navigation based on scholarly big data,” *IEEE Transactions on Emerging Topics in Computing*, 2018.
- [95] W. Wang, J. Liu, Z. Yang, X. Kong, and F. Xia, “Sustainable collaborator recommendation based on conference closure,” *IEEE Transactions on Computational Social Systems*, vol. 6, no. 2, pp. 311–322, 2019.
- [96] N. Sun, Y. Lu, and Y. Cao, “Career age-aware scientific collaborator recommendation in scholarly big data,” *IEEE Access*, vol. 7, pp. 136 036–136 045, 2019.
- [97] Y.-h. Xu, X.-t. Guo, L. Xu, Y. Chen, and Y.-y. Zhuang, “Research analytics for reviewer recommendation,” in *2012 International Conference on Management Science & Engineering 19th Annual Conference Proceedings*. IEEE, 2012, pp. 213–217.
- [98] D. K. Tayal, P. Saxena, A. Sharma, G. Khanna, and S. Gupta, “New method for solving reviewer assignment problem using type-2 fuzzy sets and fuzzy functions,” *Applied intelligence*, vol. 40, no. 1, pp. 54–73, 2014.
- [99] X. Liu, T. Suel, and N. Memon, “A robust model for paper reviewer assignment,” in *Proceedings of the 8th ACM Conference on Recommender systems*. ACM, 2014, pp. 25–32.
- [100] N. M. Kou, N. Mamoulis, Y. Li, Y. Li, Z. Gong *et al.*, “A topic-based reviewer assignment system,” *Proceedings of the VLDB Endowment*, vol. 8, no. 12, pp. 1852–1855, 2015.

- [101] O. Liu, J. Wang, J. Ma, and Y. Sun, “An intelligent decision support approach for reviewer assignment in r&d project selection,” *Computers in Industry*, vol. 76, pp. 1–10, 2016.
- [102] J. Jin, Q. Geng, Q. Zhao, and L. Zhang, “Integrating the trend of research interest for reviewer assignment,” in *Proceedings of the 26th International Conference on World Wide Web Companion*. International World Wide Web Conferences Steering Committee, 2017, pp. 1233–1241.
- [103] J. Nguyen, G. Sánchez-Hernández, N. Agell, X. Rovira, and C. Angulo, “A decision support tool using order weighted averaging for conference review assignment,” *Pattern Recognition Letters*, vol. 105, pp. 114–120, 2018.
- [104] S. Zhao, D. Zhang, Z. Duan, J. Chen, Y.-p. Zhang, and J. Tang, “A novel classification method for paper-reviewer recommendation,” *Scientometrics*, vol. 115, no. 3, pp. 1293–1313, 2018.
- [105] M. Moawad, M. Maher, A. Awad, and S. Sakr, “Minaret: A recommendation framework for scientific reviewers,” in *the 22nd International Conference on Extending Database Technology (EDBT)*, 2019.
- [106] J. Jin, Q. Geng, H. Mou, and C. Chen, “Author–subject–topic model for reviewer recommendation,” *Journal of Information Science*, p. 0165551518806116, 2018.
- [107] J. Jin, B. Niu, P. Ji, and Q. Geng, “An integer linear programming model of reviewer assignment with research interest considerations,” *Annals of Operations Research*, pp. 1–25, 2018.
- [108] H. Peng, H. Hu, K. Wang, and X. Wang, “Time-aware and topic-based reviewer assignment,” in *International Conference on Database Systems for Advanced Applications*. Springer, 2017, pp. 145–157.
- [109] L. Charlin and R. Zemel, “The toronto paper matching system: an automated paper-reviewer assignment system,” 2013.
- [110] P. A. Flach, S. Spiegler, B. Golénia, S. Price, J. Guiver, R. Herbrich, T. Graepel, and M. J. Zaki, “Novel tools to streamline the conference review process: experiences

- from sigkdd'09," *ACM SIGKDD Explorations Newsletter*, vol. 11, no. 2, pp. 63–67, 2010.
- [111] N. Di Mauro, T. M. Basile, and S. Ferilli, "Grape: An expert review assignment component for scientific conference management systems," in *International conference on industrial, engineering and other applications of applied intelligent systems*. Springer, 2005, pp. 789–798.
- [112] B. Li and Y. T. Hou, "The new automated ieee infocom review assignment system," *IEEE Network*, vol. 30, no. 5, pp. 18–24, 2016.
- [113] J. Protasiewicz, W. Pedrycz, M. Kozowski, S. Dadas, T. Stanisawek, A. Kopacz, and M. Gaewska, "A recommender system of reviewers and experts in reviewing problems," *Knowledge-Based Systems*, vol. 106, pp. 164 – 178, 2016. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S0950705116301381>
- [114] M. Gori and A. Pucci, "Research paper recommender systems: A random-walk based approach," in *Web Intelligence, 2006. WI 2006. IEEE/WIC/ACM International Conference on*. IEEE, 2006, pp. 778–781.
- [115] T. Strohman, W. B. Croft, and D. Jensen, "Recommending citations for academic papers," in *Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval*. ACM, 2007, pp. 705–706.
- [116] R. M. Nallapati, A. Ahmed, E. P. Xing, and W. W. Cohen, "Joint latent topic models for text and citations," in *Proceedings of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*. ACM, 2008, pp. 542–550.
- [117] J. Tang and J. Zhang, "A discriminative approach to topic-based citation recommendation," in *Pacific-Asia Conference on Knowledge Discovery and Data Mining*. Springer, 2009, pp. 572–579.
- [118] Q. He, J. Pei, D. Kifer, P. Mitra, and L. Giles, "Context-aware citation recommendation," in *Proceedings of the 19th international conference on World wide web*. ACM, 2010, pp. 421–430.

- [119] Q. He, D. Kifer, J. Pei, P. Mitra, and C. L. Giles, “Citation recommendation without author supervision,” in *Proceedings of the fourth ACM international conference on Web search and data mining*. ACM, 2011, pp. 755–764.
- [120] D. Duma and E. Klein, “Citation resolution: A method for evaluating context-based citation recommendation systems,” in *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, vol. 2, 2014, pp. 358–363.
- [121] A. Livne, V. Gokuladas, J. Teevan, S. T. Dumais, and E. Adar, “Citesight: supporting contextual citation recommendation using differential search,” in *Proceedings of the 37th international ACM SIGIR conference on Research & development in information retrieval*. ACM, 2014, pp. 807–816.
- [122] X. Ren, J. Liu, X. Yu, U. Khandelwal, Q. Gu, L. Wang, and J. Han, “Cluscite: Effective citation recommendation by information network-based clustering,” in *Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining*. ACM, 2014, pp. 821–830.
- [123] F. Meng, D. Gao, W. Li, X. Sun, and Y. Hou, “A unified graph model for personalized query-oriented reference paper recommendation,” in *Proceedings of the 22nd ACM international conference on Information & Knowledge Management*. ACM, 2013, pp. 1509–1512.
- [124] X. Liu, Y. Yu, C. Guo, and Y. Sun, “Meta-path-based ranking with pseudo relevance feedback on heterogeneous graph for citation recommendation,” in *Proceedings of the 23rd acm international conference on conference on information and knowledge management*. ACM, 2014, pp. 121–130.
- [125] L. C. Freeman, “Centrality in social networks conceptual clarification,” *Social networks*, vol. 1, no. 3, pp. 215–239, 1978.
- [126] T. Opsahl, F. Agneessens, and J. Skvoretz, “Node centrality in weighted networks: Generalizing degree and shortest paths,” *Social networks*, vol. 32, no. 3, pp. 245–251, 2010.

- [127] P. Bonacich, “Some unique properties of eigenvector centrality,” *Social networks*, vol. 29, no. 4, pp. 555–564, 2007.
- [128] J. M. Kleinberg, “Authoritative sources in a hyperlinked environment,” *Journal of the ACM (JACM)*, vol. 46, no. 5, pp. 604–632, 1999.
- [129] K. S. Jones, S. Walker, and S. E. Robertson, “A probabilistic model of information retrieval: development and comparative experiments: Part 2,” *Information processing & management*, vol. 36, no. 6, pp. 809–840, 2000.
- [130] A. Trotman, A. Puurula, and B. Burgess, “Improvements to bm25 and language models examined,” in *Proceedings of the 2014 Australasian Document Computing Symposium*. ACM, 2014, p. 58.
- [131] M. Rosen-Zvi, T. Griffiths, M. Steyvers, and P. Smyth, “The author-topic model for authors and documents,” *arXiv preprint arXiv:1207.4169*, 2012.
- [132] D. M. Blei, A. Y. Ng, and M. I. Jordan, “Latent dirichlet allocation,” *Journal of machine Learning research*, vol. 3, no. Jan, pp. 993–1022, 2003.
- [133] D. D. Lee and H. S. Seung, “Algorithms for non-negative matrix factorization,” in *Advances in neural information processing systems*, 2001, pp. 556–562.
- [134] N. Gillis, “The why and how of nonnegative matrix factorization,” *Regularization, optimization, kernels, and support vector machines*, vol. 12, no. 257, pp. 257–291, 2014.
- [135] N. Vincent and J.-M. Ogier, “Shall deep learning be the mandatory future of document analysis problems?” *Pattern Recognition*, vol. 86, pp. 281–289, 2019.
- [136] S. Hochreiter and J. Schmidhuber, “Long short-term memory,” *Neural computation*, vol. 9, no. 8, pp. 1735–1780, 1997.
- [137] H. Sak, A. Senior, and F. Beaufays, “Long short-term memory recurrent neural network architectures for large scale acoustic modeling,” in *Fifteenth annual conference of the international speech communication association*, 2014.
- [138] A. Géron, *Hands-on machine learning with Scikit-Learn and TensorFlow: concepts, tools, and techniques to build intelligent systems*. ” O’Reilly Media, Inc.”, 2017.

- [139] J. Zhu, Y. Shan, J. Mao, D. Yu, H. Rahmanian, and Y. Zhang, “Deep embedding forest: Forest-based serving with deep embedding features,” in *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2017, pp. 1703–1711.
- [140] Y. LeCun, B. Boser, J. S. Denker, D. Henderson, R. E. Howard, W. Hubbard, and L. D. Jackel, “Backpropagation applied to handwritten zip code recognition,” *Neural computation*, vol. 1, no. 4, pp. 541–551, 1989.
- [141] A. Krizhevsky, I. Sutskever, and G. E. Hinton, “Imagenet classification with deep convolutional neural networks,” in *Advances in neural information processing systems*, 2012, pp. 1097–1105.
- [142] Y. Zhang and B. Wallace, “A sensitivity analysis of (and practitioners’ guide to) convolutional neural networks for sentence classification,” *arXiv preprint arXiv:1510.03820*, 2015.
- [143] H. Stuckenschmidt, “Approximate information filtering on the semantic web,” in *Annual Conference on Artificial Intelligence*. Springer, 2002, pp. 114–128.
- [144] M. Sokolova and G. Lapalme, “A systematic analysis of performance measures for classification tasks,” *Information processing & management*, vol. 45, no. 4, pp. 427–437, 2009.
- [145] K. Bradley and B. Smyth, “Improving recommendation diversity,” in *Proceedings of the Twelfth Irish Conference on Artificial Intelligence and Cognitive Science, Maynooth, Ireland*. Citeseer, 2001, pp. 85–94.
- [146] M. Kunaver and T. Požrl, “Diversity in recommender systems—a survey,” *Knowledge-Based Systems*, vol. 123, pp. 154–162, 2017.
- [147] A. Sinha, Z. Shen, Y. Song, H. Ma, D. Eide, B.-j. P. Hsu, and K. Wang, “An overview of microsoft academic service (mas) and applications,” in *Proceedings of the 24th international conference on world wide web*. ACM, 2015, pp. 243–246.
- [148] J. Tang, J. Zhang, L. Yao, J. Li, L. Zhang, and Z. Su, “Arnetminer: extraction and mining of academic social networks,” in *Proceedings of the 14th ACM SIGKDD*

- international conference on Knowledge discovery and data mining.* ACM, 2008, pp. 990–998.
- [149] C. Desrosiers and G. Karypis, “A comprehensive survey of neighborhood-based recommendation methods,” in *Recommender systems handbook*. Springer, 2011, pp. 107–144.
- [150] K. Sugiyama and M.-Y. Kan, “Towards higher relevance and serendipity in scholarly paper recommendation by kazunari sugiyama and min-yen kan with martin vesely as coordinator,” *ACM SIGWEB Newsletter*, no. Winter, p. 4, 2015.
- [151] M. F. Porter, “Snowball: A language for stemming algorithms,” 2001.
- [152] B. Zhu, S. Watts, and H. Chen, “Visualizing social network concepts,” *Decision Support Systems*, vol. 49, no. 2, pp. 151–161, 2010.
- [153] Y. Liang, Q. Li, and T. Qian, “Finding relevant papers based on citation relations,” in *International Conference on Web-Age Information Management*. Springer, 2011, pp. 403–414.
- [154] U. Brandes, “A faster algorithm for betweenness centrality,” *Journal of mathematical sociology*, vol. 25, no. 2, pp. 163–177, 2001.
- [155] F. Grando and L. C. Lamb, “Computing vertex centrality measures in massive real networks with a neural learning model,” in *2018 International Joint Conference on Neural Networks (IJCNN)*. IEEE, 2018, pp. 1–8.
- [156] W. Richards and A. Seary, “Eigen analysis of networks,” *Journal of Social Structure*, vol. 1, no. 2, pp. 1–17, 2000.
- [157] T. Pedersen, S. Patwardhan, and J. Michelizzi, “Wordnet:: Similarity: measuring the relatedness of concepts,” in *Demonstration papers at HLT-NAACL 2004*. Association for Computational Linguistics, 2004, pp. 38–41.
- [158] Z. Wu and M. Palmer, “Verbs semantics and lexical selection,” in *Proceedings of the 32nd annual meeting on Association for Computational Linguistics*. Association for Computational Linguistics, 1994, pp. 133–138.

- [159] R. Real and J. M. Vargas, “The probabilistic basis of jaccard’s index of similarity,” *Systematic biology*, vol. 45, no. 3, pp. 380–385, 1996.
- [160] L. Egghe and R. Rousseau, “Co-citation, bibliographic coupling and a characterization of lattice citation networks,” *Scientometrics*, vol. 55, no. 3, pp. 349–361, 2002.
- [161] K.-K. Lai and S.-J. Wu, “Using the patent co-citation approach to establish a new patent classification system,” *Information processing & management*, vol. 41, no. 2, pp. 313–330, 2005.
- [162] J. Son and S. B. Kim, “Academic paper recommender system using multilevel simultaneous citation networks,” *Decision Support Systems*, vol. 105, pp. 24–33, 2018.
- [163] E. Elmacioglu and D. Lee, “On six degrees of separation in dblp-db and more,” *ACM SIGMOD Record*, vol. 34, no. 2, pp. 33–40, 2005.
- [164] J. Guare, *Six degrees of separation: A play*. Vintage, 1990.
- [165] M. E. Newman, “The structure of scientific collaboration networks,” *Proceedings of the national academy of sciences*, vol. 98, no. 2, pp. 404–409, 2001.
- [166] Y. Xiao, L. Y. Lu, J. S. Liu, and Z. Zhou, “Knowledge diffusion path analysis of data quality literature: A main path analysis,” *Journal of Informetrics*, vol. 8, no. 3, pp. 594–605, 2014.
- [167] J. S. Liu and C.-H. Kuan, “A new approach for main path analysis: Decay in knowledge diffusion,” *Journal of the Association for Information Science and Technology*, vol. 67, no. 2, pp. 465–476, 2016.
- [168] N. P. Hummon and P. Dereian, “Connectivity in a citation network: The development of dna theory,” *Social networks*, vol. 11, no. 1, pp. 39–63, 1989.
- [169] S. Wu, “Applying the data fusion technique to blog opinion retrieval,” *Expert Systems with Applications*, vol. 39, no. 1, pp. 1346–1353, 2012.
- [170] S. Wu and S. McClean, “Performance prediction of data fusion for information retrieval,” *Information processing & management*, vol. 42, no. 4, pp. 899–915, 2006.

- [171] J. H. Lee, “Analyses of multiple evidence combination,” in *ACM SIGIR Forum*, vol. 31, no. SI. ACM, 1997, pp. 267–276.
- [172] M. Montague and J. A. Aslam, “Relevance score normalization for metasearch,” in *Proceedings of the tenth international conference on Information and knowledge management*. ACM, 2001, pp. 427–433.
- [173] Y. Sun, B. Norick, J. Han, X. Yan, P. S. Yu, and X. Yu, “Pathselclus: Integrating meta-path selection with user-guided object clustering in heterogeneous information networks,” *ACM Transactions on Knowledge Discovery from Data (TKDD)*, vol. 7, no. 3, p. 11, 2013.
- [174] Y. Sun and J. Han, “Mining heterogeneous information networks: a structural analysis approach,” *Acm Sigkdd Explorations Newsletter*, vol. 14, no. 2, pp. 20–28, 2013.
- [175] C. Shi, B. Hu, W. X. Zhao, and S. Y. Philip, “Heterogeneous information network embedding for recommendation,” *IEEE Transactions on Knowledge and Data Engineering*, vol. 31, no. 2, pp. 357–370, 2018.
- [176] Y. Sun and J. Han, “Mining heterogeneous information networks: principles and methodologies,” *Synthesis Lectures on Data Mining and Knowledge Discovery*, vol. 3, no. 2, pp. 1–159, 2012.
- [177] Y. Sun, J. Han, X. Yan, P. S. Yu, and T. Wu, “Pathsim: Meta path-based top-k similarity search in heterogeneous information networks,” *Proceedings of the VLDB Endowment*, vol. 4, no. 11, pp. 992–1003, 2011.
- [178] A. Grover and J. Leskovec, “node2vec: Scalable feature learning for networks,” in *Proceedings of the 22nd ACM SIGKDD international conference on Knowledge discovery and data mining*. ACM, 2016, pp. 855–864.
- [179] J. H. Lau and T. Baldwin, “An empirical evaluation of doc2vec with practical insights into document embedding generation,” *arXiv preprint arXiv:1607.05368*, 2016.
- [180] Q. Le and T. Mikolov, “Distributed representations of sentences and documents,” in *International Conference on Machine Learning*, 2014, pp. 1188–1196.

- [181] X. Zhou, B. Wu, and Q. Jin, “Analysis of user network and correlation for community discovery based on topic-aware similarity and behavioral influence,” *IEEE Transactions on Human-Machine Systems*, vol. 48, no. 6, pp. 559–571, 2017.
- [182] V. D. Blondel, J.-L. Guillaume, R. Lambiotte, and E. Lefebvre, “Fast unfolding of communities in large networks,” *Journal of statistical mechanics: theory and experiment*, vol. 2008, no. 10, p. P10008, 2008.
- [183] M. E. Newman and M. Girvan, “Finding and evaluating community structure in networks,” *Physical review E*, vol. 69, no. 2, p. 026113, 2004.
- [184] M. E. Newman, “Analysis of weighted networks,” *Physical review E*, vol. 70, no. 5, p. 056131, 2004.
- [185] R. A. Jarvis and E. A. Patrick, “Clustering using a similarity measure based on shared near neighbors,” *IEEE Transactions on computers*, vol. 100, no. 11, pp. 1025–1034, 1973.
- [186] I. A. Basheer and M. Hajmeer, “Artificial neural networks: fundamentals, computing, design, and application,” *Journal of microbiological methods*, vol. 43, no. 1, pp. 3–31, 2000.
- [187] H. Tong, C. Faloutsos, and J.-Y. Pan, “Fast random walk with restart and its applications,” 2006.
- [188] S. Wu, C. Huang, L. Li, and F. Crestani, “Fusion-based methods for result diversification in web search,” *Information Fusion*, vol. 45, pp. 16–26, 2019.
- [189] D. Lillis, L. Zhang, F. Toolan, R. W. Collier, D. Leonard, and J. Dunnion, “Estimating probabilities for effective data fusion,” in *Proceedings of the 33rd international ACM SIGIR conference on Research and development in information retrieval*. ACM, 2010, pp. 347–354.
- [190] J. A. Aslam and M. Montague, “Models for metasearch,” in *Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval*. ACM, 2001, pp. 276–284.

- [191] F. Yang, H. Xie, and H. Li, “Video associated cross-modal recommendation algorithm based on deep learning,” *Applied Soft Computing*, p. 105597, 2019.
- [192] G. Castellano, A. M. Fanelli, and M. A. Torsello, “Newer: A system for neuro-fuzzy web recommendation,” *Applied Soft Computing*, vol. 11, no. 1, pp. 793–806, 2011.
- [193] Z. Zhang and O. Nasraoui, “Mining search engine query logs for social filtering-based query recommendation,” *Applied Soft Computing*, vol. 8, no. 4, pp. 1326–1334, 2008.
- [194] I.-C. Hsu, “Integrating ontology technology with folksonomies for personalized social tag recommendation,” *Applied Soft Computing*, vol. 13, no. 8, pp. 3745–3750, 2013.
- [195] C. De Maio, G. Fenza, M. Gaeta, V. Loia, F. Orciuoli, and S. Senatore, “Rss-based e-learning recommendations exploiting fuzzy fca for knowledge modeling,” *Applied Soft Computing*, vol. 12, no. 1, pp. 113–124, 2012.
- [196] M. Ali, N. D. Thanh, N. Van Minh *et al.*, “A neutrosophic recommender system for medical diagnosis based on algebraic neutrosophic measures,” *Applied Soft Computing*, vol. 71, pp. 1054–1071, 2018.
- [197] A. Tejada-Lorente, C. Porcel, J. Bernabé-Moreno, and E. Herrera-Viedma, “Refore: A recommender system for researchers based on bibliometrics,” *Applied Soft Computing*, vol. 30, pp. 778–791, 2015.
- [198] M. Sabzevari, G. Martínez-Muñoz, and A. Suárez, “Vote-boosting ensembles,” *Pattern Recognition*, vol. 83, pp. 119–133, 2018.
- [199] D. H. Wolpert, “Stacked generalization,” *Neural networks*, vol. 5, no. 2, pp. 241–259, 1992.
- [200] Z.-H. Zhou, *Ensemble Methods: Foundations and Algorithms*, 1st ed. Chapman & Hall/CRC, 2012.
- [201] Y. Sun, R. Barber, M. Gupta, C. C. Aggarwal, and J. Han, “Co-author relationship prediction in heterogeneous bibliographic networks,” in *Advances in Social Networks Analysis and Mining (ASONAM), 2011 International Conference on*. IEEE, 2011, pp. 121–128.

- [202] Q. V. Le and T. Mikolov, “Distributed representations of sentences and documents,” *CoRR*, vol. abs/1405.4053, 2014. [Online]. Available: <http://arxiv.org/abs/1405.4053>
- [203] M. Van Setten, “Supporting people in finding information: hybrid recommender systems and goal-based structuring,” 2005.
- [204] S.-Y. Hwang, C.-P. Wei, and Y.-F. Liao, “Coauthorship networks and academic literature recommendation,” *Electronic Commerce Research and Applications*, vol. 9, no. 4, pp. 323–334, 2010.
- [205] X. Liu, X. Zhu, M. Li, L. Wang, E. Zhu, T. Liu, M. Kloft, D. Shen, J. Yin, and W. Gao, “Multiple kernel k-means with incomplete kernels,” *IEEE transactions on pattern analysis and machine intelligence*, 2019.
- [206] J. Sun, J. Ma, Z. Liu, and Y. Miao, “Leveraging content and connections for scientific article recommendation in social computing contexts,” *The Computer Journal*, vol. 57, no. 9, pp. 1331–1342, 2014.