Bibliography

- [1] Jimeng Sun and Jie Tang. A Survey of Models and Algorithms for Social Influence Analysis, pages 177–214. Springer US, Boston, MA, 2011.
- [2] Akhil Arora, Sainyam Galhotra, and Sayan Ranu. Debunking the myths of influence maximization: An in-depth benchmarking study. In *Proceedings of the 2017 ACM International Conference on Management of Data*, SIGMOD '17, pages 651–666, New York, NY, USA, 2017. ACM.
- [3] Y. Li, J. Fan, Y. Wang, and K. Tan. Influence maximization on social graphs: A survey. *IEEE Transactions on Knowledge and Data Engineering*, 30(10):1852–1872, Oct 2018.
- [4] Jacqueline Johnson Brown and Peter H. Reingen. Social ties and word-of-mouth referral behavior*. *Journal of Consumer Research*, 14(3):350–362, 1987.

- [5] Jacob Goldenberg, Barak Libai, and Eitan Muller. Talk of the network: A complex systems look at the underlying process of word-of-mouth. *Marketing Letters*, 12(3):211–223, Aug 2001.
- [6] Pedro Domingos and Matt Richardson. Mining the network value of customers. In Proceedings of the Seventh ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD '01, pages 57–66, New York, NY, USA, 2001. ACM.
- [7] Peng Wu and Li Pan. Scalable influence blocking maximization in social networks under competitive independent cascade models. *Computer Networks*, 123:38 – 50, 2017.
- [8] Wei Chen, Yifei Yuan, and Li Zhang. Scalable influence maximization in social networks under the linear threshold model. In *Proceedings of the 2010 IEEE International Conference on Data Mining*, ICDM '10, pages 88–97, Washington, DC, USA, 2010. IEEE Computer Society.
- [9] Mao Ye, Xingjie Liu, and Wang-Chien Lee. Exploring social influence for recommendation: A generative model approach. In *Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval*, SIGIR '12, pages 671–680, New York, NY, USA, 2012. ACM.

- [10] Ya-Wen Teng, Chih-Hua Tai, Philip S. Yu, and Ming-Syan Chen.
 Revenue Maximization on the Multi-grade Product, pages 576–584.
 2018.
- [11] David Kempe, Jon Kleinberg, and Éva Tardos. Maximizing the spread of influence through a social network. In *Proceedings of the Ninth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '03, pages 137–146, New York, NY, USA, 2003. ACM.
- [12] W. O. Kermack and A. G. McKendrick. A contribution to the mathematical theory of epidemics. *Proceedings of the Royal Society* of London. Series A, Containing Papers of a Mathematical and *Physical Character*, 115(772):700–721, 1927.
- [13] W.O. Kermack and A.G. McKendrick. Contributions to the mathematical theory of epidemics—i. *Bulletin of Mathematical Biology*, 53(1):33 – 55, 1991.
- [14] Adrien Guille, Hakim Hacid, Cecile Favre, and Djamel A. Zighed.
 Information diffusion in online social networks: A survey. *SIGMOD Rec.*, 42(2):17–28, July 2013.
- [15] N. Barbieri, F. Bonchi, and G. Manco. Topic-aware social influence propagation models. In 2012 IEEE 12th International Conference on Data Mining, pages 81–90, Dec 2012.

- [16] L. Guo, D. Zhang, G. Cong, W. Wu, and K. L. Tan. Influence maximization in trajectory databases. *IEEE Transactions on Knowledge and Data Engineering*, 29(3):627–641, March 2017.
- [17] Guoliang Li, Shuo Chen, Jianhua Feng, Kian-lee Tan, and Wen-syan Li. Efficient location-aware influence maximization. In *Proceedings of the 2014 ACM SIGMOD International Conference* on Management of Data, SIGMOD '14, pages 87–98, New York, NY, USA, 2014. ACM.
- [18] Manuel Gomez-Rodriguez, Le Song, Nan Du, Hongyuan Zha, and Bernhard Schölkopf. Influence estimation and maximization in continuous-time diffusion networks. *ACM Trans. Inf. Syst.*, 34(2):9:1–9:33, February 2016.
- [19] M. Gomez Rodriguez and B. Schölkopf. Influence maximization in continuous time diffusion networks. In *Proceedings of the 29th International Conference on Machine Learning*, pages 313–320, New York, NY, USA, July 2012. Omnipress.
- [20] Yuchen Li, Dongxiang Zhang, and Kian-Lee Tan. Real-time targeted influence maximization for online advertisements. *Proc. VLDB Endow.*, 8(10):1070–1081, June 2015.
- [21] Shuo Chen, Ju Fan, Guoliang Li, Jianhua Feng, Kian-lee Tan, and Jinhui Tang. Online topic-aware influence maximization. *Proc. VLDB Endow.*, 8(6):666–677, February 2015.

- [22] Y. Zhu, D. Li, and Z. Zhang. Minimum cost seed set for competitive social influence. In *IEEE INFOCOM 2016 - The 35th Annual IEEE International Conference on Computer Communications*, pages 1–9, April 2016.
- [23] Su-Chen Lin, Shou-De Lin, and Ming-Syan Chen. A learning-based framework to handle multi-round multi-party influence maximization on social networks. In *Proceedings of the 21th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '15, pages 695–704, New York, NY, USA, 2015. ACM.
- [24] Wei Chen, Yajun Wang, and Siyu Yang. Efficient influence maximization in social networks. In *Proceedings of the 15th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '09, pages 199–208, New York, NY, USA, 2009. ACM.
- [25] Yitong Wang and Xiaojun Feng. A potential-based node selection strategy for influence maximization in a social network. In Ronghuai Huang, Qiang Yang, Jian Pei, João Gama, Xiaofeng Meng, and Xue Li, editors, *Advanced Data Mining and Applications*, pages 350–361, Berlin, Heidelberg, 2009. Springer Berlin Heidelberg.
- [26] Suman Kundu, C. A. Murthy, and S. K. Pal. A new centrality measure for influence maximization in social networks. In Sergei O. Kuznetsov, Deba P. Mandal, Malay K. Kundu, and Sankar K.

Pal, editors, *Pattern Recognition and Machine Intelligence*, pages 242–247, Berlin, Heidelberg, 2011. Springer Berlin Heidelberg.

- [27] Maxim Sviridenko. A note on maximizing a submodular set function subject to a knapsack constraint. *Operations Research Letters*, 32(1):41 – 43, 2004.
- [28] Jure Leskovec, Andreas Krause, Carlos Guestrin, Christos Faloutsos, Jeanne VanBriesen, and Natalie Glance. Cost-effective outbreak detection in networks. In *Proceedings of the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '07, pages 420–429, New York, NY, USA, 2007. ACM.
- [29] Amit Goyal, Wei Lu, and Laks V.S. Lakshmanan. Celf++: Optimizing the greedy algorithm for influence maximization in social networks. In *Proceedings of the 20th International Conference Companion on World Wide Web*, WWW '11, pages 47–48, New York, NY, USA, 2011. ACM.
- [30] Masahiro Kimura and Kazumi Saito. Tractable models for information diffusion in social networks. In Johannes Fürnkranz, Tobias Scheffer, and Myra Spiliopoulou, editors, *Knowledge Discovery in Databases: PKDD 2006*, pages 259–271, Berlin, Heidelberg, 2006. Springer Berlin Heidelberg.

- [31] Wei Chen, Chi Wang, and Yajun Wang. Scalable influence maximization for prevalent viral marketing in large-scale social networks. In *Proceedings of the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '10, pages 1029–1038, New York, NY, USA, 2010. ACM.
- [32] J. Kim, S. K. Kim, and H. Yu. Scalable and parallelizable processing of influence maximization for large-scale social networks? In 2013 IEEE 29th International Conference on Data Engineering (ICDE), pages 266–277, April 2013.
- [33] Yu Wang, Gao Cong, Guojie Song, and Kunqing Xie. Community-based greedy algorithm for mining top-k influential nodes in mobile social networks. In *KDD*, 2010.
- [34] Hui Li, Sourav S. Bhowmick, Aixin Sun, and Jiangtao Cui. Conformity-aware influence maximization in online social networks. *The VLDB Journal*, 24(1):117–141, February 2015.
- [35] Tim Carnes, Chandrashekhar Nagarajan, Stefan M. Wild, and Anke van Zuylen. Maximizing influence in a competitive social network: A follower's perspective. In *Proceedings of the Ninth International Conference on Electronic Commerce*, ICEC '07, pages 351–360, New York, NY, USA, 2007. ACM.
- [36] Shishir Bharathi, David Kempe, and Mahyar Salek. Competitive influence maximization in social networks. In Xiaotie Deng and

Fan Chung Graham, editors, *Internet and Network Economics*, pages 306–311, Berlin, Heidelberg, 2007. Springer Berlin Heidelberg.

- [37] Honglin Sun, Xiaofeng Gao, Guihai Chen, Jian Gu, and Yongjian Wang. Multiple influence maximization in social networks. In Proceedings of the 10th International Conference on Ubiquitous Information Management and Communication, IMCOM '16, pages 44:1–44:8, New York, NY, USA, 2016. ACM.
- [38] H. Zhang, D. T. Nguyen, H. Zhang, and M. T. Thai. Least cost influence maximization across multiple social networks. *IEEE/ACM Transactions on Networking*, 24(2):929–939, April 2016.
- [39] Chih-Hang Wang, Po-Shun Huang, De-Nian Yang, and Wen-Tsuen Chen. Cross-layer design of influence maximization in mobile social networks. *CoRR*, abs/1604.02796, 2016.
- [40] Fredrik Erlandsson, Piotr Bródka, and Anton Borg. Seed selection for information cascade in multilayer networks. *CoRR*, abs/1710.04391, 2017.
- [41] Yue Zhang. Influence maximization on multi-phased multi-layered network. 2015.
- [42] Allan Borodin, Yuval Filmus, and Joel Oren. Threshold models for competitive influence in social networks. In Amin Saberi,

editor, *Internet and Network Economics*, pages 539–550, Berlin, Heidelberg, 2010. Springer Berlin Heidelberg.

- [43] Sainyam Galhotra, Akhil Arora, and Shourya Roy. Holistic influence maximization: Combining scalability and efficiency with opinion-aware models. In *Proceedings of the 2016 International Conference on Management of Data*, SIGMOD '16, pages 743–758, New York, NY, USA, 2016. ACM.
- [44] R. Eberhart and J. Kennedy. A new optimizer using particle swarm theory. In *Micro Machine and Human Science*, 1995. MHS '95., *Proceedings of the Sixth International Symposium on*, pages 39–43, Oct 1995.
- [45] M. Hasanzadeh, M. R. Meybodi, and Saeed Shiry Ghidary. Improving learning automata based particle swarm: An optimization algorithm. In 2011 IEEE 12th International Symposium on Computational Intelligence and Informatics (CINTI), pages 291–296, Nov 2011.
- [46] Qingye Jiang, Guojie Song, Gao Cong, Yu Wang, Wenjun Si, and Kunqing Xie. Simulated annealing based influence maximization in social networks. In *Proceedings of the Twenty-Fifth AAAI Conference on Artificial Intelligence*, AAAI'11, pages 127–132. AAAI Press, 2011.

- [47] Maoguo Gong, Jianan Yan, Bo Shen, Lijia Ma, and Qing Cai. Influence maximization in social networks based on discrete particle swarm optimization. *Information Sciences*, 367-368:600 – 614, 2016.
- [48] H. Ge, J. Huang, C. Di, J. Li, and S. Li. Learning automata based approach for influence maximization problem on social networks. In 2017 IEEE Second International Conference on Data Science in Cyberspace (DSC), pages 108–117, June 2017.
- [49] Yi-Cheng Chen, Wen-Yuan Zhu, Wen-Chih Peng, Wang-Chien Lee, and Suh-Yin Lee. Cim: Community-based influence maximization in social networks. ACM Trans. Intell. Syst. Technol., 5(2):25:1–25:31, April 2014.
- [50] Mohammad Al Hasan and Mohammed J. Zaki. A Survey of Link Prediction in Social Networks, pages 243–275. Springer US, Boston, MA, 2011.
- [51] Víctor Martínez, Fernando Berzal, and Juan-Carlos Cubero. A survey of link prediction in complex networks. *ACM Comput. Surv.*, 49(4):69:1–69:33, December 2016.
- [52] Zhepeng (Lionel) Li, Xiao Fang, and Olivia R. Liu Sheng. A survey of link recommendation for social networks: Methods, theoretical foundations, and future research directions. *ACM Trans. Manage. Inf. Syst.*, 9(1):1:1–1:26, October 2017.

- [53] Matthew Richardson and Pedro Domingos. Mining knowledge-sharing sites for viral marketing. In *Proceedings of the Eighth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, KDD '02, pages 61–70, New York, NY, USA, 2002. ACM.
- [54] Smriti Bhagat, Amit Goyal, and Laks V.S. Lakshmanan. Maximizing product adoption in social networks. In *Proceedings* of the Fifth ACM International Conference on Web Search and Data Mining, WSDM '12, pages 603–612, New York, NY, USA, 2012. ACM.
- [55] H.A. Eiselt and G. Laporte. Competitive spatial models. *European Journal of Operational Research*, 39(3):231 242, 1989.
- [56] H. Zhang, T. N. Dinh, and M. T. Thai. Maximizing the spread of positive influence in online social networks. In 2013 IEEE 33rd International Conference on Distributed Computing Systems, pages 317–326, July 2013.
- [57] Wei Chen, Alex Collins, Rachel Cummings, Te Ke, Zhenming Liu, David Rincon, Xiaorui Sun, Wei Wei, Yajun Wang, and Yifei Yuan. Influence maximization in social networks when negative opinions may emerge and propagate. In *Proceedings of the 2011 SIAM International Conference on Data Mining (SDM'2011)*, April 2011.

- [58] David Kempe, Jon Kleinberg, and Éva Tardos. Influential nodes in a diffusion model for social networks. In Luís Caires, Giuseppe F. Italiano, Luís Monteiro, Catuscia Palamidessi, and Moti Yung, editors, *Automata, Languages and Programming*, pages 1127–1138, Berlin, Heidelberg, 2005. Springer Berlin Heidelberg.
- [59] Thomas C. Schelling. *Micromotives and Macrobehavior*. 01 2006.
- [60] Mark Granovetter. Threshold models of collective behavior. *American Journal of Sociology*, 83(6):1420–1443, 1978.
- [61] N. Pathak, A. Banerjee, and J. Srivastava. A generalized linear threshold model for multiple cascades. In 2010 IEEE International Conference on Data Mining, pages 965–970, Dec 2010.
- [62] Lecture notes on particle systems and percolation.(book review). *SciTech Book News*, 13:12, 1989-01-01.
- [63] Jacob Goldenberg, Barak Libai, and Eitan Muller. Talk of the network: A complex systems look at the underlying process of word-of-mouth. *Marketing Letters*, 12(3):211–223, Aug 2001.
- [64] Jacob Goldenberg and Eitan Muller. Using complex systems analysis to advance marketing theory development : Modeling heterogeneity effects on new product growth through stochastic cellular automata. 2003.
- [65] Wei Chen, Alex Collins, Rachel Cummings, Te Ke, Zhenming Liu, David Rincon, Xiaorui Sun, Wei Wei, Yajun Wang, and Yifei Yuan.

Influence maximization in social networks when negative opinions may emerge and propagate. In *Proceedings of the 2011 SIAM International Conference on Data Mining (SDM'2011)*, April 2011.

- [66] A. Nazemian and F. Taghiyareh. Influence maximization in independent cascade model with positive and negative word of mouth. In 6th International Symposium on Telecommunications (IST), pages 854–860, Nov 2012.
- [67] Wei Chen, Wei Lu, and Ning Zhang. Time-critical influence maximization in social networks with time-delayed diffusion process. 04 2012.
- [68] W. Lee, J. Kim, and H. Yu. Ct-ic: Continuously activated and time-restricted independent cascade model for viral marketing. In 2012 IEEE 12th International Conference on Data Mining, pages 960–965, Dec 2012.
- [69] Manuel Gomez-Rodriguez, David Balduzzi, and Bernhard Schölkopf. Uncovering the temporal dynamics of diffusion networks. *CoRR*, abs/1105.0697, 2011.
- [70] M. Gomez Rodriguez and B. Schölkopf. Influence maximization in continuous time diffusion networks. In *Proceedings of the 29th International Conference on Machine Learning*, pages 313–320, New York, NY, USA, July 2012. Omnipress.

- [71] Wei Chen, Chi Wang, and Yajun Wang. Scalable influence maximization for prevalent viral marketing in large-scale social networks. July 2010.
- [72] W. Chen, Y. Yuan, and L. Zhang. Scalable influence maximization in social networks under the linear threshold model. In 2010 IEEE International Conference on Data Mining, pages 88–97, Dec 2010.
- [73] G. L. Nemhauser, L. A. Wolsey, and M. L. Fisher. An analysis of approximations for maximizing submodular set functions—i. *Mathematical Programming*, 14(1):265–294, Dec 1978.
- [74] C. Zhou, P. Zhang, W. Zang, and L. Guo. On the upper bounds of spread for greedy algorithms in social network influence maximization. *IEEE Transactions on Knowledge and Data Engineering*, 27(10):2770–2783, Oct 2015.
- [75] Qingye Jiang, Guojie Song, Gao Cong, Yu Wang, Wenjun Si, and Kunqing Xie. Simulated annealing based influence maximization in social networks. In *Proceedings of the Twenty-Fifth AAAI Conference on Artificial Intelligence*, AAAI'11, pages 127–132. AAAI Press, 2011.
- [76] K. Sheng and Z. Zhang. Research on the influence maximization based on community detection. In 2018 13th IEEE Conference on Industrial Electronics and Applications (ICIEA), pages 2797–2801, May 2018.

- [77] Linton C. Freeman. Centrality in social networks conceptual clarification. *Social Networks*, 1(3):215 – 239, 1978.
- [78] Lawrence Page, Sergey Brin, Rajeev Motwani, and Terry Winograd. The pagerank citation ranking: Bringing order to the web. Technical Report 1999-66, Stanford InfoLab, November 1999. Previous number = SIDL-WP-1999-0120.
- [79] Qi Liu, Biao Xiang, Enhong Chen, Hui Xiong, Fangshuang Tang, and Jeffrey Xu Yu. Influence maximization over large-scale social networks: A bounded linear approach. In *Proceedings of the 23rd ACM International Conference on Conference on Information and Knowledge Management*, CIKM '14, pages 171–180, New York, NY, USA, 2014. ACM.
- [80] Kyomin Jung, Wooram Heo, and Wei Chen. Irie: Scalable and robust influence maximization in social networks. In *Proceedings* of the 2012 IEEE 12th International Conference on Data Mining, ICDM '12, pages 918–923, Washington, DC, USA, 2012. IEEE Computer Society.
- [81] R. Narayanam and Y. Narahari. A shapley value-based approach to discover influential nodes in social networks. *IEEE Transactions on Automation Science and Engineering*, 8(1):130–147, Jan 2011.

- [82] Suqi Cheng, Huawei Shen, Junming Huang, Wei Chen, and Xueqi Cheng. Imrank: Influence maximization via finding self-consistent ranking. *CoRR*, abs/1402.3939, 2014.
- [83] W. Chen, Y. Yuan, and L. Zhang. Scalable influence maximization in social networks under the linear threshold model. In 2010 IEEE International Conference on Data Mining, pages 88–97, Dec 2010.
- [84] Amit Goyal, Wei Lu, and Laks V. S. Lakshmanan. Simpath: An efficient algorithm for influence maximization under the linear threshold model. In *Proceedings of the 2011 IEEE 11th International Conference on Data Mining*, ICDM '11, pages 211–220, Washington, DC, USA, 2011. IEEE Computer Society.
- [85] Suqi Cheng, Huawei Shen, Junming Huang, Guoqing Zhang, and Xueqi Cheng. Staticgreedy: Solving the scalability-accuracy dilemma in influence maximization. In *Proceedings of the* 22Nd ACM International Conference on Information & Knowledge Management, CIKM '13, pages 509–518, New York, NY, USA, 2013. ACM.
- [86] Naoto Ohsaka, Takuya Akiba, Yuichi Yoshida, and Ken-Ichi Kawarabayashi. Fast and accurate influence maximization on large networks with pruned monte-carlo simulations. In *Proceedings* of the Twenty-Eighth AAAI Conference on Artificial Intelligence, AAAI'14, pages 138–144. AAAI Press, 2014.

- [87] Edith Cohen, Daniel Delling, Thomas Pajor, and Renato F. Werneck. Sketch-based influence maximization and computation: Scaling up with guarantees. *CoRR*, abs/1408.6282, 2014.
- [88] Christian Borgs, Michael Brautbar, Jennifer Chayes, and Brendan Lucier. Maximizing social influence in nearly optimal time. In Proceedings of the Twenty-fifth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA '14, pages 946–957, Philadelphia, PA, USA, 2014. Society for Industrial and Applied Mathematics.
- [89] Youze Tang, Xiaokui Xiao, and Yanchen Shi. Influence maximization: near-optimal time complexity meets practical efficiency. In SIGMOD Conference, 2014.
- [90] Youze Tang, Yanchen Shi, and Xiaokui Xiao. Influence maximization in near-linear time: A martingale approach. In *Proceedings of the 2015 ACM SIGMOD International Conference* on Management of Data, SIGMOD '15, pages 1539–1554, New York, NY, USA, 2015. ACM.
- [91] X. Wang, Y. Zhang, W. Zhang, X. Lin, and C. Chen. Bring order into the samples: A novel scalable method for influence maximization. *IEEE Transactions on Knowledge and Data Engineering*, 29(2):243–256, Feb 2017.
- [92] Hung T. Nguyen, My T. Thai, and Thang N. Dinh. Stop-and-stare: Optimal sampling algorithms for viral marketing in billion-scale

networks. In *Proceedings of the 2016 International Conference on Management of Data*, SIGMOD '16, pages 695–710, New York, NY, USA, 2016. ACM.

- [93] Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda. Efficient discovery of influential nodes for sis models in social networks. *Knowledge and Information Systems*, 30(3):613–635, Mar 2012.
- [94] Qixiang Wang, M. Gong, Chao Song, and Shanfeng Wang. Discrete particle swarm optimization based influence maximization in complex networks. In 2017 IEEE Congress on Evolutionary Computation (CEC), pages 488–494, June 2017.
- [95] Guoliang Li, Shuo Chen, Jianhua Feng, Kian-lee Tan, and Wen-syan Li. Efficient location-aware influence maximization. In *Proceedings of the 2014 ACM SIGMOD International Conference* on Management of Data, SIGMOD '14, pages 87–98, New York, NY, USA, 2014. ACM.
- [96] Tao Zhou, Jiuxin Cao, Bo Liu, Shuai Xu, Ziqing Zhu, and Junzhou Luo. Location-based influence maximization in social networks. In Proceedings of the 24th ACM International on Conference on Information and Knowledge Management, CIKM '15, pages 1211–1220, New York, NY, USA, 2015. ACM.

- [97] Chonggang Song, Wynne Hsu, and Mong Li Lee. Targeted influence maximization in social networks. In *Proceedings of the 25th ACM International on Conference on Information and Knowledge Management*, CIKM '16, pages 1683–1692, New York, NY, USA, 2016. ACM.
- [98] X. Wang, Y. Zhang, W. Zhang, and X. Lin. Efficient distance-aware influence maximization in geo-social networks. *IEEE Transactions* on Knowledge and Data Engineering, 29(3):599–612, March 2017.
- [99] Sen Su, Xiao Li, Xiang Cheng, and Chenna Sun. Location-aware targeted influence maximization in social networks. *Journal* of the Association for Information Science and Technology, 69(2):229–241, 2 2018.
- [100] J. Li, T. Sellis, J. S. Culpepper, Z. He, C. Liu, and J. Wang. Geo-social influence spanning maximization. In 2018 IEEE 34th International Conference on Data Engineering (ICDE), pages 1775–1776, April 2018.
- [101] J. Li, T. Cai, A. Mian, R. Li, T. Sellis, and J. X. Yu. Holistic influence maximization for targeted advertisements in spatial social networks. In 2018 IEEE 34th International Conference on Data Engineering (ICDE), pages 1340–1343, April 2018.
- [102] Jing Guo, Peng Zhang, Chuan Zhou, Yanan Cao, and Li Guo. Personalized influence maximization on social networks. In

Proceedings of the 22Nd ACM International Conference on Information & Knowledge Management, CIKM '13, pages 199–208, New York, NY, USA, 2013. ACM.

- [103] Yuchen Li, Dongxiang Zhang, and Kian-Lee Tan. Real-time targeted influence maximization for online advertisements. *Proc. VLDB Endow.*, 8(10):1070–1081, June 2015.
- [104] J. Lee and C. Chung. A query approach for influence maximization on specific users in social networks. *IEEE Transactions on Knowledge and Data Engineering*, 27(2):340–353, Feb 2015.
- [105] H. T. Nguyen, T. N. Dinh, and M. T. Thai. Cost-aware targeted viral marketing in billion-scale networks. In *IEEE INFOCOM 2016 The 35th Annual IEEE International Conference on Computer Communications*, pages 1–9, April 2016.
- [106] Çigdem Aslay, Nicola Barbieri, Francesco Bonchi, and Ricardo A.Baeza-Yates. Online topic-aware influence maximization queries. In *EDBT*, 2014.
- [107] Shuo Chen, Ju Fan, Guoliang Li, Jianhua Feng, Kian-lee Tan, and Jinhui Tang. Online topic-aware influence maximization. *Proc. VLDB Endow.*, 8(6):666–677, February 2015.
- [108] Wei Chen, Tian Lin, and Cheng Yang. Real-time topic-aware influence maximization using preprocessing. *Computational Social Networks*, 3(1):8, Nov 2015.

- [109] B. Liu, G. Cong, Y. Zeng, D. Xu, and Y. M. Chee. Influence spreading path and its application to the time constrained social influence maximization problem and beyond. *IEEE Transactions* on Knowledge and Data Engineering, 26(8):1904–1917, Aug 2014.
- [110] Nan Du, Yingyu Liang, Maria-Florina Balcan, Manuel Gomez-Rodriguez, Hongyuan Zha, and Le Song. Scalable influence maximization for multiple products in continuous-time diffusion networks. *CoRR*, abs/1612.02712, 2016.
- [111] Miao Xie, Qiusong Yang, Qing Wang, Gao Cong, and Gerard de Melo. Dynadiffuse: A dynamic diffusion model for continuous time constrained influence maximization. In *Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence*, AAAI'15, pages 346–352. AAAI Press, 2015.
- [112] Naoto Ohsaka, Yutaro Yamaguchi, Naonori Kakimura, and Ken-ichi Kawarabayashi. Maximizing time-decaying influence in social networks. In Paolo Frasconi, Niels Landwehr, Giuseppe Manco, and Jilles Vreeken, editors, *Machine Learning and Knowledge Discovery in Databases*, pages 132–147, Cham, 2016. Springer International Publishing.
- [113] Ceren Budak, Divyakant Agrawal, and Amr El Abbadi. Limiting the spread of misinformation in social networks. In *Proceedings of the 20th International Conference on World Wide Web*, WWW '11, pages 665–674, New York, NY, USA, 2011. ACM.

- [114] Xinran He, Guojie Song, Wei Chen, and Qingye Jiang. Influence blocking maximization in social networks under the competitive linear threshold model. In *SDM*, pages 463–474. SIAM / Omnipress, 2012.
- [115] Y. Zhu, D. Li, and Z. Zhang. Minimum cost seed set for competitive social influence. In *IEEE INFOCOM 2016 - The 35th Annual IEEE International Conference on Computer Communications*, pages 1–9, April 2016.
- [116] Hui Li, Sourav S. Bhowmick, Jiangtao Cui, Yunjun Gao, and Jianfeng Ma. Getreal: Towards realistic selection of influence maximization strategies in competitive networks. In SIGMOD Conference, 2015.
- [117] Wei Lu, Wei Chen, and Laks V. S. Lakshmanan. From competition to complementarity: Comparative influence diffusion and maximization. *Proc. VLDB Endow.*, 9(2):60–71, October 2015.
- [118] Han-Ching Ou, Chung-Kuang Chou, and Ming-Syan Chen. Influence maximization for complementary goods: Why parties fail to cooperate? In *Proceedings of the 25th ACM International on Conference on Information and Knowledge Management*, CIKM '16, pages 1713–1722, New York, NY, USA, 2016. ACM.
- [119] H. Zhuang, Y. Sun, J. Tang, J. Zhang, and X. Sun. Influence maximization in dynamic social networks. In 2013 IEEE 13th

International Conference on Data Mining, pages 1313–1318, Dec 2013.

- [120] Xue-Guang Wang. A new algorithm for the influence maximization problem in dynamic networks or traffic sensor networks. *Multimedia Tools and Applications*, 75(8):4833–4844, Apr 2016.
- [121] Naoto Ohsaka, Takuya Akiba, Yuichi Yoshida, and Ken-ichi Kawarabayashi. Dynamic influence analysis in evolving networks. *Proc. VLDB Endow.*, 9(12):1077–1088, August 2016.
- [122] G. Song, Y. Li, X. Chen, X. He, and J. Tang. Influential node tracking on dynamic social network: An interchange greedy approach. *IEEE Transactions on Knowledge and Data Engineering*, 29(2):359–372, Feb 2017.
- [123] Yake Wang, Jinghua Zhu, and Qian Ming. Incremental influence maximization for dynamic social networks. In Beiji Zou, Qilong Han, Guanglu Sun, Weipeng Jing, Xiaoning Peng, and Zeguang Lu, editors, *Data Science*, pages 13–27, Singapore, 2017. Springer Singapore.
- [124] G. Tong, W. Wu, S. Tang, and D. Du. Adaptive influence maximization in dynamic social networks. *IEEE/ACM Transactions* on Networking, 25(1):112–125, Feb 2017.
- [125] Charu C. Aggarwal, Shuyang Lin, and Philip S. Yu. On influential node discovery in dynamic social networks. In *SDM*, 2012.

- [126] Nathalie T.H. Gayraud, Evaggelia Pitoura, and Panayiotis Tsaparas.
 Diffusion maximization in evolving social networks. In *Proceedings* of the 2015 ACM on Conference on Online Social Networks, COSN '15, pages 125–135, New York, NY, USA, 2015. ACM.
- [127] Yanhong Meng, Yunhui Yi, Fei Xiong, and Changxing Pei. T×onehop approach for dynamic influence maximization problem. *Physica A: Statistical Mechanics and its Applications*, 515:575 – 586, 2019.
- [128] Yuchen Li, Ju Fan, Dongxiang Zhang, and Kian-Lee Tan. Discovering your selling points: Personalized social influential tags exploration. In *Proceedings of the 2017 ACM International Conference on Management of Data*, SIGMOD '17, pages 619–634, New York, NY, USA, 2017. ACM.
- [129] V. Tejaswi, P. V. Bindu, and P. S. Thilagam. Target specific influence maximization: An approach to maximize adoption in labeled social networks. In 2017 9th International Conference on Communication Systems and Networks (COMSNETS), pages 542–547, Jan 2017.
- [130] Azadeh Mohammadi, Mohamad Saraee, and Abdolreza Mirzaei. Time-sensitive influence maximization in social networks. *Journal* of Information Science, 41(6):765–778, 2015.
- [131] Arastoo Bozorgi, Saeed Samet, Johan Kwisthout, and ToddWareham. Community-based influence maximization in

social networks under a competitive linear threshold model. *Knowledge-Based Systems*, 134:149 – 158, 2017.

- [132] Siyu Lei, Silviu Maniu, Luyi Mo, Reynold Cheng, and Pierre Senellart. Online influence maximization (extended version). *CoRR*, abs/1506.01188, 2015.
- [133] Yanhao Wang, Qi Fan, Yuchen Li, and Kian-Lee Tan. Real-time influence maximization on dynamic social streams. *CoRR*, abs/1702.01586, 2017.
- [134] X. Li, J. D. Smith, T. N. Dinh, and M. T. Thai. Tiptop: (almost) exact solutions for influence maximization in billion-scale networks. *IEEE/ACM Transactions on Networking*, 27(2):649–661, April 2019.
- [135] H. T. Nguyen, A. Cano, V. Tam, and T. N. Dinh. Blocking self-avoiding walks stops cyber-epidemics: A scalable gpu-based approach. *IEEE Transactions on Knowledge and Data Engineering*, pages 1–1, 2019.
- [136] Xinran He and David Kempe. Robust influence maximization. CoRR, abs/1602.05240, 2016.
- [137] Yasir Mehmood, Francesco Bonchi, and David García-Soriano. Spheres of influence for more effective viral marketing. In Proceedings of the 2016 International Conference on Management

of Data, SIGMOD '16, pages 711–726, New York, NY, USA, 2016. ACM.

- [138] David Lusseau, Karsten Schneider, Oliver J. Boisseau, Patti Haase, Elisabeth Slooten, and Steve M. Dawson. The bottlenose dolphin community of doubtful sound features a large proportion of long-lasting associations. *Behavioral Ecology and Sociobiology*, 54(4):396–405, Sep 2003.
- [139] Lorenzo Isella, Juliette Stehlé, Alain Barrat, Ciro Cattuto, Jean-François Pinton, and Wouter Van den Broeck. What's in a crowd? analysis of face-to-face behavioral networks. *Journal of Theoretical Biology*, 271(1):166 – 180, 2011.
- [140] Ryan A. Rossi and Nesreen K. Ahmed. The network data repository with interactive graph analytics and visualization. In *Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence*, 2015.
- [141] Jure Leskovec, Jon Kleinberg, and Christos Faloutsos. Graph evolution: Densification and shrinking diameters. ACM Trans. Knowl. Discov. Data, 1(1), March 2007.
- [142] M E J Newman. Finding community structure in networks using the eigenvectors of matrices. 74:036104, 10 2006.
- [143] Matei Ripeanu, Adriana Iamnitchi, and Ian Foster. Mapping the gnutella network. *IEEE Internet Computing*, 6(1):50–57, January 2002.

- [144] Wei Chen, Laks V. S. Lakshmanan, and Carlos Castillo. Information and Influence Propagation in Social Networks. Morgan & Claypool Publishers, 2013.
- [145] M De Domenico, A Lima, Paul Mougel, and Mirco Musolesi. The anatomy of a scientific rumor. *Scientific reports*, 3:2980, 10 2013.
- [146] M. Girvan and M. E. J. Newman. Community structure in social and biological networks. *Proceedings of the National Academy of Sciences*, 99(12):7821–7826, 2002.
- [147] Duncan Watts and Steven H. Strogatz. Collective dynamics of small world networks. *Nature*, 393:440–2, 07 1998.
- [148] Vladimir Batagelj and Andrej Mrvar. Pajek program for analysis and visualization of large networks reference manual list of commands with short explanation version be. 02 1999.
- [149] Lada A. Adamic and Natalie Glance. The political blogosphere and the 2004 u.s. election: Divided they blog. In *Proceedings of the 3rd International Workshop on Link Discovery*, LinkKDD '05, pages 36–43, New York, NY, USA, 2005. ACM.
- [150] L. Šubelj and M. Bajec. Ubiquitousness of link-density and link-pattern communities in real-world networks. *The European Physical Journal B*, 85(1):32, Jan 2012.

- [151] James Kennedy and Russell C. Eberhart. A discrete binary version of the particle swarm algorithm. In PROC. OF CONF. ON SYSTEM, MAN, AND CYBERNETICS, 4104–4109, 1997.
- [152] Y. Shi and R. Eberhart. A modified particle swarm optimizer. In 1998 IEEE International Conference on Evolutionary Computation Proceedings. IEEE World Congress on Computational Intelligence (Cat. No.98TH8360), pages 69–73, May 1998.
- [153] R. C. Eberhart and Y. Shi. Guest editorial special issue on particle swarm optimization. *IEEE Transactions on Evolutionary Computation*, 8(3):201–203, June 2004.
- [154] Kumpati S. Narendra and Mandayam A. L. Thathachar. *Learning Automata: An Introduction*. Prentice-Hall, Inc., Upper Saddle River, NJ, USA, 1989.
- [155] A.B. Hashemi and M.R. Meybodi. A note on the learning automata based algorithms for adaptive parameter selection in pso. *Applied Soft Computing*, 11(1):689 – 705, 2011.
- [156] Sharan Vaswani, Branislav Kveton, Zheng Wen, Mohammad Ghavamzadeh, Laks V. S. Lakshmanan, and Mark Schmidt. Diffusion independent semi-bandit influence maximization. *CoRR*, abs/1703.00557, 2017.

- [157] Nicholas A. Christakis and James H. Fowler. Connected: The Surprising Power of Our Social Networks and How They Shape Our Lives. Little, Brown, New York, USA, 2009.
- [158] Sen Pei, Lev Muchnik, José S Andrade Jr, Zhiming Zheng, and Hernán A Makse. Searching for superspreaders of information in real-world social media. *Scientific reports*, 4:5547, 2014.
- [159] Milton Friedman. The use of ranks to avoid the assumption of normality implicit in the analysis of variance. *Journal of the American Statistical Association*, 32(200):675–701, 1937.
- [160] Joaquín Derrac, Salvador García, Daniel Molina, and Francisco Herrera. A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. *Swarm and Evolutionary Computation*, 1(1):3 – 18, 2011.
- [161] Burt S. Holland and Margaret DiPonzio Copenhaver. An improved sequentially rejective bonferroni test procedure. *Biometrics*, 43(2):417–423, 1987.
- [162] Nicola Barbieri, Francesco Bonchi, and Giuseppe Manco. Topic-aware social influence propagation models. *Knowledge and Information Systems*, 37(3):555–584, Dec 2013.
- [163] Francesco Buccafurri, Gianluca Lax, Antonino Nocera, and Domenico Ursino. Discovering links among social networks. In

Peter A. Flach, Tijl De Bie, and Nello Cristianini, editors, *Machine Learning and Knowledge Discovery in Databases*, pages 467–482, Berlin, Heidelberg, 2012. Springer Berlin Heidelberg.

- [164] T Suganya, S Thennammai, and Revathi Velusamy. Unique user identification across multiple social network. *International Journal* of Research in Marketing, 8:137–142, 08 2017.
- [165] Jan Vosecky, Dan Hong, and Vincent Y. Shen. User identification across multiple social networks, 08 2009.
- [166] Federico Battiston, Vincenzo Nicosia, and Vito Latora. Structural measures for multiplex networks. 89:032804, 03 2014.
- [167] David Liben-Nowell and Jon Kleinberg. The link prediction problem for social networks. In *Proceedings of the Twelfth International Conference on Information and Knowledge Management*, CIKM '03, pages 556–559, New York, NY, USA, 2003. ACM.
- [168] Saeed Salem Mohammad Al Hasan, Vineet Chaoji and M. Zaki. Link prediction using supervised learning. 2006.
- [169] Margaret E. Newman. Clustering and preferential attachment in growing networks. *Physical review. E, Statistical, nonlinear, and soft matter physics*, 64 2 Pt 2:025102, 2001.
- [170] Lada A Adamic and Eytan Adar. Friends and neighbors on the web. Social Networks, 25(3):211 – 230, 2003.

- [171] Tao Zhou, Linyuan Lü, and Yi-Cheng Zhang. Predicting missing links via local information. *The European Physical Journal B*, 71(4):623–630, Oct 2009.
- [172] Linhong Zhu and Kristina Lerman. A visibility-based model for link prediction in social media. In *Proceedings of the ASE/IEEE Conference on Social Computing*, 2014.
- [173] Mehrdad Farajtabar, Manuel Gomez-Rodriguez, Yichen Wang, Shuang Li, Hongyuan Zha, and Le Song. Co-evolutionary dynamics of information diffusion and network structure. In *Proceedings of the 24th International Conference on World Wide Web*, WWW '15 Companion, pages 619–620, New York, NY, USA, 2015. ACM.
- [174] Vineet Chaoji, Sayan Ranu, Rajeev Rastogi, and Rushi Bhatt. Recommendations to boost content spread in social networks. In Proceedings of the 21st International Conference on World Wide Web, WWW '12, pages 529–538, New York, NY, USA, 2012. ACM.
- [175] Hongseok Oh, Myung-Ho Chung, and Giuseppe Labianca. Group social capital and group effectiveness: The role of informal socializing ties. *The Academy of Management Journal*, 47(6):860–875, 2004.
- [176] G. Song, X. Zhou, Y. Wang, and K. Xie. Influence maximization on large-scale mobile social network: A divide-and-conquer

method. *IEEE Transactions on Parallel and Distributed Systems*, 26(5):1379–1392, May 2015.

- [177] Anupam Biswas and Bhaskar Biswas. Investigating community structure in perspective of ego network. *Expert Systems with Applications*, 42(20):6913 – 6934, 2015.
- [178] Anupam Biswas and Bhaskar Biswas. Community-based
 link prediction. *Multimedia Tools and Applications*,
 76(18):18619–18639, Sep 2017.
- [179] 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*, 311(3):590 – 614, 2002.
- [180] Z. Liu, Q.-M. Zhang, L. Lü, and T. Zhou. Link prediction in complex networks: A local naïve Bayes model. *EPL (Europhysics Letters)*, 96:48007, November 2011.
- [181] Carlo Vittorio Cannistraci, Gregorio Alanis-Lobato, and Timothy Ravasi. From link-prediction in brain connectomes and protein interactomes to the local-community-paradigm in complex networks. *Scientific Reports*, 3(1), apr 2013.
- [182] Zhihao Wu, Youfang Lin, Huaiyu Wan, and Waleed Jamil. Predicting top-1 missing links with node and link clustering

information in large-scale networks. *Journal of Statistical Mechanics: Theory and Experiment*, 2016(8):083202, aug.

- [183] Aditya Grover and Jure Leskovec. Node2vec: Scalable feature learning for networks. *CoRR*, abs/1607.00653, 2016.
- [184] Zhihao Wu, Youfang Lin, Jing Wang, and Steve Gregory. Link prediction with node clustering coefficient. *Physica A: Statistical Mechanics and its Applications*, 452:1 – 8, 2016.
- [185] Ajay Kumar, Shashank Sheshar Singh, Kuldeep Singh, and Bhaskar Biswas. Level-2 node clustering coefficient-based link prediction. *Applied Intelligence*, Feb 2019.
- [186] M. E. J. Newman. Finding community structure in networks using the eigenvectors of matrices. *Phys. Rev. E*, 74:036104, Sep 2006.
- [187] Christopher D. Manning, Prabhakar Raghavan, and Hinrich Schütze. Introduction to Information Retrieval. Cambridge University Press, New York, NY, USA, 2008.
- [188] Jesse Davis and Mark Goadrich. The relationship between precision-recall and roc curves. In *Proceedings of the 23rd International Conference on Machine Learning*, ICML '06, pages 233–240, New York, NY, USA, 2006. ACM.
- [189] James A. Hanley and Barbara J Mcneil. The meaning and use of the area under a receiver operating characteristic (roc) curve. *Radiology*, 143 1:29–36, 1982.

- [190] Xinran He and David Kempe. Stability of influence maximization. In Proceedings of the 20th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD '14, pages 1256–1265, New York, NY, USA, 2014. ACM.
- [191] Yanhua Li, Wei Chen, Yajun Wang, and Zhi-Li Zhang. Influence diffusion dynamics and influence maximization in social networks with friend and foe relationships. *CoRR*, abs/1111.4729, 2011.
- [192] Aristides Gionis, Evimaria Terzi, and Panayiotis Tsaparas. Opinion maximization in social networks. *CoRR*, abs/1301.7455, 2013.
- [193] Abhimanyu Das and David Kempe. Submodular meets spectral: Greedy algorithms for subset selection, sparse approximation and dictionary selection. *Computing Research Repository - CORR*, 02 2011.
- [194] Hui Li, Sourav S. Bhowmick, and Aixin Sun. Casino: Towards conformity-aware social influence analysis in online social networks. In *Proceedings of the 20th ACM International Conference* on Information and Knowledge Management, CIKM '11, pages 1007–1012, New York, NY, USA, 2011. ACM.
- [195] Hui Li, Sourav S. Bhowmick, and Aixin Sun. Cinema: Conformity-aware greedy algorithm for influence maximization in online social networks. In *Proceedings of the 16th International*

Conference on Extending Database Technology, EDBT '13, pages 323–334, New York, NY, USA, 2013. ACM.

- [196] Jie Tang, Sen Wu, and J Sun. Confluence: Conformity influence in large social networks, 08 2013.
- [197] Jing Zhang, Jie Tang, Honglei Zhuang, Cane Wing-ki Leung, and Juanzi Li. Role-aware conformity influence modeling and analysis in social networks, 07 2014.