Bibliography
Webgraph Papers

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References

[1] Fabio D. A. Aarão Reis. Scaling in the crossover from random to correlated growth. Technical Report cond-mat/0511131, Arxiv.org, 2005.

[2] A. Abbasi, L. Hossain, S. Uddin, and K. J. R. Rasmussen. Evolutionary Dynamics of Scientific Collaboration Networks: Multi-Levels and Cross-time Analysis. *ArXiv e-prints*, July 2011.

[3] Alireza Abbasi. Hybrid Centrality Measures and its application for co-authorship analysis. *ArXiv 1112.2459*, December 2011.

[4] Alireza Abbasi, Liaquat Hossain, and Loet Leydesdorff. Betweenness Centrality as a Driver of Preferential Attachment in the Evolution of Research Collaboration Networks. *ArXiv 1111.6804*, November 2011.

[5] Nasreen AbdulJaleel and Yan Qu. Domain term extraction and structuring via link analysis. In *AAAI-WS2005A*, pages 39–46, 2005.

[6] J. Abello. Massive graph mining. In *FOCS-WS2002A*, 2002.

[7] Daniel M. Abrams and Steven H. Strogatz. Modelling the dynamics of language death. *Nature*, 424:900, August 21, 2003.

[8] Sreangsu Acharyya and Joydeep Ghosh. A maximum entropy framework for higher order link analysis on directed graphs. In *KDD-WS2003A*, 2003.

[9] Dimitris Achlioptas. *Threshold Phenomena in Random Graph Colouring and Satisfiability*. PhD thesis, University of Toronto, 1999.

[10] Dimitris Achlioptas, Aaron Clauset, David Kempe, and Cristopher Moore. On the bias of traceroute sampling: or, power-law degree distributions in regular graphs. Technical Report cond-mat/0503087, Arvix.org, March 2006.

[11] Dimitris Achlioptas, Amos Fiat, Anna R. Karlin, and Frank McSherry. Web search via hub synthesis. In *FOCS2001*, pages 500–509, 2001.

[12] Sisay Fissaha Adafre and Maarten de Rijke. Discovering missing links in Wikipedia. In *KDD-WS2005A*, 2005.

[13] Lada Adamic and Eytan Adar. Friends and neighbors on the web. *Social Networks*, 25(3):211–230, 2003.

[14] Lada Adamic and Eytan Adar. How to search a social network. *Social Networks*, 27(3):187–203, 2005.

[15] Lada Adamic and Natalie Glance. The political Blogosphere and the 2004 U.S. election: Divided they Blog. In *WWW-WS2005B*, 2005.

[16] Lada A. Adamic. The small world Web. In *ECDL1999*, pages 443–452, 1999.

[17] Lada A. Adamic. Zipf, power-laws, and Pareto - a ranking tutorial, 2000.

[18] Lada A. Adamic and Eytan Adar. Friends and neighbors on the Web. *Social Networks*, 25(3):211–230, 2003.

[19] Lada A. Adamic, Orkut Buyukkokten, and Eytan Adar. A social network caught in the Web. *First Monday*, 8(6), June 2003.

[20] Lada A. Adamic and Bernardo A. Huberman. Power law distribution of the World Wide Web. *Science*, 287:2115a, 2000.

[21] Lada A. Adamic, Rajan M. Lukose, and Bernardo A. Huberman. *Local Search in Unstructured Networks*, chapter 13, pages 295–317. Wiley-VCH, Berlin, 2002.

[22] Lada A. Adamic, Rajan M. Lukose, Amit R. Puniyani, and Bernardo A Huberman. Search in power-law networks. *PRE*, 64:46135–46143, September 26, 2001.

[23] Lada A Adamic, K Suresh, and Xiaolin Shi. Scatter networks: a new approach for analysing information scatter. *New Journal of Physics*, 9(231), 2007.

[24] Eytan Adar. GUESS: The graph exploration system. Online manual and tutorial, HP Labs, February 16, 2005.

[25] Eytan Adar. GUESS: A language and interface for graph exploration. In *CHI 06: Proceedings of the SIGCHI conference on Human Factors in computing systems*, pages 791–800, New York, NY, USA, 2006. ACM.

[26] Eytan Adar. User 4xxxxx9: Anonymizing query logs. In Einat Amitay, Craig G. Murray, and Jaime Teevan, editors, *Query Log Analysis: Social And Technological Challenges. A workshop at the 16th International World Wide Web Conference (WWW 2007)*, May 2007.

[27] Eytan Adar, Li Zhang, Lada Adamic, and Rajan M. Lukose. Implicit structure in the dynamics of the blogsphere. In *WWW 2005: 2nd Annual Workshop on the Weblogging Ecosystem*, 2005.

[28] Eytan Adar, Li Zhang, Lada A. Adamic, and Rajan M. Lukose. Implicit structure and the dynamics of Blogspace. In *WWW-WS2004B*, 2004.

[29] Jafar Adibi, Hans Chalupsky, Marko Grobelnik, Dunja Mladenic, and Natasa Milic-Frayling. KDD-2004 workshop report: Link analysis and group detection (LinkKDD-2004). *SIGKDD-EN*, 6(2):136–139, December 2004.

[30] Jafar Adibi, Clayton M. Morrison, and Paul R. Cohen. Measuring confidence intervals in link discovery: A bootstrap approach. In *KDD-WS2004A*, 2004.

[31] Jafar Adibi, P. Pantel, Marko Grobelnik, and Dunja Mladenic. KDD-2005 workshop report link discovery: Issues, approaches and application. *SIGKDD-EN*, 7(2):123–125, 2005.

[32] Micah Adler and Michael Mitzenmacher. Towards compressing Web graphs. In *DCC2001*, page 203, 2001.

[33] Thotsaporn ”Aek” Thanatipanonda. A Simple Proof of Schmidt's Conjecture. *ArXiv 1203.3731*, March 2012.

[34] Alekh Agarwal, Soumen Chakrabarti, and Sunny Aggarwal. Learning to rank networked entities. In *KDD2006*, pages 14–23, 2006.

[35] Apoorv Agarwal, Fadi Biadsy, and Kathleen R. Mckeown. Contextual phrase-level polarity analysis using lexical affect scoring and syntactic n-grams. In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics*, EACL '09, pages 24–32, 2009.

[36] Apoorv Agarwal, Owen C. Rambow, and Rebecca J. Passonneau. Annotation Scheme for Social Network Extraction from Text. In *Proceedings of the Fourth Linguistic Annotation Workshop*, pages 20–28, Uppsala, Sweden, July 2010. Association for Computational Linguistics.

[37] Sameer Agarwal, Kristin Branson, and Serge Belongie. Higher order learning with graphs. In *ICML2006*, pages 17–24, 2006.

[38] Shivani Agarwal. Ranking on graph data. In *ICML2006*, pages 25–32, 2006.

[39] Eugene Agichtein, Eric Brill, and Susan Dumais. Improving web search ranking by incorporating user behavior information. In *SIGIR2006*, pages 19–26, 2006.

[40] Eugene Agichtein, Eric Brill, Susan Dumais, and Robert Ragno. Learning user interaction models for predicting web search result preferences. In *SIGIR2006*, pages 3–10, 2006.

[41] E. Agliari, R. Burioni, D. Cassi, and F. M. Neri. Efficiency of information spreading in a population of diffusing agents. *PRE*, 73:046138, 2006.

[42] Maristella Agosti and Luca Pretto. A theoretical study of a generalized version of Kleinberg's HITS algorithm. *IR*, 8(2):219–243, April 2005.

[43] Per Ahlgren, Bo Jarneving, and Ronald Rousseau. Requirements for a cocitation similarity measure, with special reference to Pearson's correlation coefficient. *JASIST*, 54(6):550–560, April 2003.

[44] Per Ahlgren, Bo Jarneving, and Ronald Rousseaul. Author cocitation analysis and Pearson's r. *JASIST*, 55(9):843, July 2004.

[45] William Aiello, Fan Chung, and Linyuan Lu. A random graph model for massive graphs. In *STOC2000*, pages 171–180, 2000.

[46] William Aiello, Fan R. K. Chung, and Linyuan Lu. Random evolution in massive graphs. In *FOCS2001*, pages 510–519, 2001.

[47] E. M. Airoldi and K. M. Carley. Sampling algorithms for pure network topologies. *SIGKDD-EN*, 7(2):13–22, 2005.

[48] Edoardo Airoldi, David Blei, Eric Xing, and Stephen Fienberg. A latent mixed membership model for relational data. In *KDD-WS2005A*, 2005.

[49] Mehmet S. Aktas, Mehmet A. Nacar, and Filippo Menczer. Personalizing PageRank based on domain profiles. In Bamshad Mobasher, Bing Liu, Brij Masand, and Olfa Nasraoui, editors, *Proceedings of the ACM SIGKDD '04 Sixth Workshop on Web Mining and Web Analysis (WebKDD '04)*, Seattle, Washington, USA, August 22, 2004.

[50] R. Alberich, J. Miro-Julia, and F. Rossello. Marvel universe looks almost like a real social network. Technical Report cond-mat/0202174, Arxiv.org, 2002.

[51] István Albert and Réka Albert. Conserved network motifs allow protein-protein interaction prediction. *Bioinformatics*, 20(18):3346–3352, December 12, 2004.

[52] Réka Albert. Boolean modeling of genetic regulatory networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 459–481. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[53] Réka Albert. Scale-free networks in cell biology. *Journal of Cell Science*, 118:4947–4957, 2005.

[54] Réka Albert and Albert-László Barabási. Dynamics of complex systems: Scaling laws for the period of boolean networks. *PRL*, 84(24):5660–5663, June 2000.

[55] Réka Albert and Albert-László Barabási. Topology of evolving networks: Local events an universality. *PRL*, 85(24):5234–5237, December 11, 2000.

[56] Réka Albert and Albert-László Barabási. Statistical mechanics of complex networks. *RMP*, 74(1):47–98, 2002.

[57] Réka Albert, Hawoong Jeong, and Albert-László Barabási. Diameter of the World Wide Web. *Nature*, 401(6749):130–131, September 1999.

[58] Réka Albert, Hawoong Jeong, and Albert-László Barabási. Error and attack tolerance of complex networks. *Nature*, 406(6794):378–382, July 27, 2000.

[59] R. Aldecoa and I. Marín. Surprise maximization reveals the community structure of complex networks. *ArXiv e-prints*, January 2013.

[60] David Aldous and Jim Fill. Reversible Markov chains and random walks on graphs. Preprint, 1994.

[61] Boanerges Aleman-Meza, Meenakshi Nagarajan, Cartic Ramakrishnan, Li Ding, Pranam Kolari, Amit P. Sheth, I. Budak Arpinar, Anupam Joshi, and Tim Finin. Semantic analytics on social networks: Experiences in addressing the problem of conflict of interest detection. In *WWW2006*, pages 407–416, 2006.

[62] A. Alexandrescu and K. Kirchhoff. Graph-based Learning for Statistical Machine Translation. In *NAACL HLT 2009*, 2009.

[63] Noor Ali-Hasan and Lada Adamic. Expressing social relationships on the blog through links and comments. In *International Conference on Weblogs and Social Media*, Boulder, Colorado, USA, 2007.

[64] A. E. Allahverdyan, W. Deng, and Q. A. Wang. Explaining Zipf's Law via Mental Lexicon. *ArXiv e-prints*, February 2013.

[65] Antoine Allard, Laurent Hébert-Dufresne, Pierre Noël, Vincent Marceau, and Louis J. Dubé. Exact solution of bond percolation on small arbitrary graphs. *ArXiv 1201.4369*, January 2012.

[66] Paolo Allegrini, Paolo Grigolini, and Luigi Palatella. Intermittency and scale-free networks: A dynamical model for human language complexity. *Chaos, Solitons & Fractals*, 20(1):95–105, April 2004.

[67] Eric Alm and Adam P Arkin. Biological networks. *Current Opinion in Structural Biology*, 13(2):193–202, April 2003.

[68] E. Almaas and A. L. Barabasi. Power laws in biological networks, 2004.

5

[69] Elvind Almaas, Rajendra V. Kulkarni, and David Stroud. Characterizing the structure of small-world networks. *PRL*, 88(9):098101, 2002.

[70] E. G. Altmann, Z. L. Whichard, and A. E. Motter. Identifying Trends in Word Frequency Dynamics. *Journal of Statistical Physics*, February 2013.

[71] Eduardo G. Altmann, Giampaolo Cristadoro, and Mirko Degli Esposti. On the origin of long-range correlations in texts. *CoRR*, abs/1207.0658, 2012.

[72] D. R. Amancio, E. G. Altmann, D. Rybski, O. N. Oliveira, Jr., and L. d. F. Costa. Probing the statistical properties of unknown texts: application to the Voynich Manuscript. *ArXiv e-prints*, March 2013.

[73] D. R. Amancio, S. M. Aluisio, O. N. Oliveira, Jr., and L. d. F. Costa. Complex networks analysis of language complexity. *EPL (Europhysics Letters)*, 100:58002, December 2012.

[74] D. R. Amancio, O. N. Oliveira, Jr., and L. d. F. Costa. On the use of topological features and hierarchical characterization for disambiguating names in collaborative networks. *EPL (Europhysics Letters)*, 99:48002, August 2012.

[75] D. R. Amancio, O. N. Oliveira, Jr., and L. d. F. Costa. Structure-semantics interplay in complex networks and its effects on the predictability of similarity in texts. *Physica A Statistical Mechanics and its Applications*, 391:4406–4419, September 2012.

[76] D. R. Amancio, O. N. Oliveira, Jr., and L. d. F. Costa. Unveiling the relationship between complex networks metrics and word senses. *EPL (Europhysics Letters)*, 98:18002, April 2012.

[77] D. R. Amancio, O. N. Oliveira, Jr., and L. d. F. Costa. Using complex networks to quantify consistency in the use of words. *Journal of Statistical Mechanics: Theory and Experiment*, 1:4, January 2012.

[78] D. R. Amancio, O. N. Oliveira, Jr., and L. da Fontoura Costa. Identification of literary movements using complex networks to represent texts. *New Journal of Physics*, 14(4):043029, April 2012.

[79] Diego R. Amancio. Network analysis of named entity interactions in written texts. *CoRR*, abs/1509.05281, 2015.

[80] Diego R. Amancio, Lucas Antiqueira, T. A. S. Pardo, Luciano da F. Costa, O. N. Oliveira, and Maria das Graças V. Nunes. Complex networks analysis of manual and machine translations. *International Journal of Modern Physics C*, 19:583–598, 2008.

[81] Diego R. Amancio, Filipi Nascimento Silva, and Luciano da F. Costa. Concentric network symmetry grasps authors' styles in word adjacency networks. *CoRR*, abs/1504.02162, 2015.

[82] Diego Raphael Amancio, Eduardo G. Altmann, O. N. Oliveira, Jr., and Luciano da Fontoura Costa. Comparing intermittency and network measurements of words and their dependence on authorship. *ArXiv 1112.6045*, December 2011.

[83] Luís A. Nunes Amaral, A. Scala, Marc Barthélémy, and H. E. Stanley. Classes of small-world networks. *PNAS*, 97:11149–11152, 2000.

[84] Brian Amento, Loren G. Terveen, and William C. Hill. Does "authority" mean quality? predicting expert quality ratings of Web documents. In *SIGIR2000*, pages 296–303, 2000.

[85] Einat Amitay, David Carmel, Michael Herscovici, Ronny Lempel, and Aya Soffer. Trend detection through temporal link analysis. *JASIST*, 55(14):1261–1269, December 2004.

[86] M. Amoozgar and R. Ramezanian. A Computational Modeling of Rumor Dissemination. *ArXiv e-prints*, November 2012.

[87] Yuan An, Jeannette Janssen, and Evangelos E. Milios. Characterizing and mining the citation graph of the computer science literature. *Knowl. Inf. Syst.*, 6(6):664–678, 2004.

[88] Aris Anagnostopoulos, Ravi Kumar, and Mohammad Mahdian. Influence and correlation in social networks. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 7–15, New York, NY, USA, 2008. ACM.

[89] Reid Andersen, Christian Borgs, Jennifer Chayes, John Hopcroft, Vahab Mirrokni, and Shanghua Teng. Local computation of pagerank contributions. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[90] Reid Andersen, Fan Chung, and Kevin Lang. Local graph partitioning using PageRank vectors. In *FOCS2006*, 2006.

[91] Reid Andersen, Fan. R. K. Chung, and Lincoln Lu. Analyzing the small world phenomenon using a hybrid model with local network flow (extended abstract). In *FOCS-WS2004A*, pages 19–30, 2004.

[92] Reid Andersen, Fan Chung Graham, and Kevin Lang. Local partitioning for directed graphs using pagerank. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[93] Corin R. Anderson, Pedro Domingos, and Daniel S. Weld. Relational Markov models and their application to adaptive Web navigation. In *KDD2002*, pages 143–152, 2002.

[94] Katharine Anderson. Collaboration Network Formation and the Demand for Problem Solvers with Heterogenous Skills. *ArXiv 1112.5121*, December 2011.

[95] Rie Kuboto Ando and Tong Zhang. Learning on graph with Laplacian regularization. In *NIPS2006*, 2006.

[96] Jacob Andreas. The complexity of learning principles and parameters grammars. *CoRR*, abs/1207.0052, 2012.

[97] Andrew McCallum and Andrés Corrada-Emmanuel and Xuerui Wang. Topic and role discovery in social networks. In *IJCAI2005*, pages 786–791, 2005.

[98] Nicholas Andrews, Jason Eisner, and Mark Dredze. Name phylogeny: A generative model of string variation. In *Proceedings of the 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning*, pages 344–355, Jeju Island, Korea, July 2012. Association for Computational Linguistics.

[99] Nicholas Andrews, Jason Eisner, and Mark Dredze. Name phylogeny: A generative model of string variation. In *Proceedings of the 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning*, pages 344–355. Association for Computational Linguistics, 2012.

[100] Ángel F. Zazo, Carlos G. Figuerola, José L. Alonso Berrocal, and Emilio Rodríguez. Reformulation of queries using similarity thesauri. *IPM*, 41(5):1163–1173, September 2005.

[101] Ralitsa Angelova and Gerhard Weikum. Graph-based text classification: Learn from your neighbors. In *SIGIR2006*, pages 485–492, 2006.

[102] Fabrizio Angiulli. Clustering by exceptions. In *AAAI2006*, 2006.

[103] Tibor Antal, Paul L Krapivsky, and Sidney Redner. Social balance on networks: The dynamics of friendship and enmity. *Physica D: Nonlinear Phenomena*, 224(1):130–136, 2006.

[104] L. Antiqueira, M.G.V. Nunes, O.N. Oliveira Jr., and L. da F. Costa. Strong correlations between text quality and complex networks features. *Physica A*, June 2006.

[105] John Antonakis and Rafael Lalive. Quantifying scholarly impact: Iqp versus the hirsch h. *J. Am. Soc. Inf. Sci. Technol.*, 59(6):956–969, 2008.

[106] Kemafor Anyanwu, Angela Maduko, and Amit P. Sheth. SemRank: Ranking complex relationship search results on the semantic Web. In *WWW2005*, pages 117–127, 2005.

[107] Pablo Aragón, Andreas Kaltenbrunner, David Laniado, and Yana Volkovich. Biographical Social Networks on Wikipedia - A cross-cultural study of links that made history. *ArXiv 1204.3799*, April 2012.

[108] Sinan Aral, Lev Muchnik, and Arun Sundararajan. Distinguishing influence-based contagion from homophily-driven diffusion in dynamic networks. *Proceedings of the National Academy of Sciences*, 106(51):21544–21549, 2009.

[109] Arvind Arasu, Junghoo Cho, Hector Garcia-Molina, Andreas Paepcke, and Sriram Raghavan. Searching the web. *ACM Trans. Inter. Tech.*, 1(1):2–43, 2001.

[110] Arvind Arasu, Jasmine Novak, Andrew Tomkins, and John Tomlin. PageRank computation and the structure of the Web: Experiments and algorithms. In *WWW2002*, 2002.

[111] Esteban Arcaute, Ning Chen, Ravi Kumar, David Liben-Nowell, Mohammad Mahdian, Hamid Nazerzadeh, and Ying Xu. Deterministic decentralized search in random graphs. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[112] Andreas Argyriou, Mark Herbster, and Massimilano Pontil. Combining graph Laplacians for semi-supervised learning. In *NIPS2005*, pages 67–74, 2005.

[113] Sanjeev Arora, Yuanzhi Li, Yingyu Liang, Tengyu Ma, and Andrej Risteski. Random walks on context spaces: Towards an explanation of the mysteries of semantic word embeddings. *CoRR*, abs/1502.03520, 2015.

[114] Peter J. Artymiuk, Ruth V. Spriggs, and Peter Willett. Graph theoretic methods for the analysis of structural relationships in biological macromolecules. *JASIST*, 56(5):518–528, March 2005.

[115] Chalee Asavathiratham. *The Influence Model: A Tractable Representation for the Dynamics of Networked Markov Chains*. PhD thesis, Massachusetts Institute of Technology, 2000.

[116] Marcel Ausloos. A scientometrics law about co-authors and their ranking. the co-author core. *CoRR*, abs/1207.1614, 2012.

[117] Alex Auvolat and Pascal Vincent. Clustering is efficient for approximate maximum inner product search. *CoRR*, abs/1507.05910, 2015.

[118] Konstantin Avrachenkov, Nelly Litvak, and Kim Son Pham. Distribution of pagerank mass among principle components of the web. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[119] Konstantin Avrachenkov, Nelly Litvak, Marina Sokol, and Don Towsley. Quick Detection of Nodes with Large Degrees. *ArXiv 1202.3261*, February 2012.

[120] Avrim Blum and Shuchi Chawla. Learning from labeled and unlabeled data using graph mincuts. In *ICML2001*, pages 19–26, 2001.

[121] Robert Axelrod, David E. Axelrod, and Jenneth J. Pienta. Evolution of cooperation among tumor cells. *PNAS*, 103(36):13474–13479, September 2006.

[122] Yossi Azar, Amos Fiat, Anna R. Karlin, Frank Mcsherry, and Jared Saia. Spectral analysis of data. In *STOC2001*, pages 619–626, 2001.

[123] Arik Azran. The rendezvous algorithm: Multiclass semi-supervised learning with markov random walks. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[124] A. Baccini and L. Barabesi. Interlocking editorship. A network analysis of the links between economic journals. *ArXiv e-prints*, 1102.1168, February 2011.

[125] A. Baccini and L. Barabesi. Seats at the table: the network of the editorial boards in information and library science. *ArXiv e-prints*, 1102.1167, February 2011.

[126] L. Backstrom, J. Kleinberg, R. Kumar, and J. Novak. Spatial variation in search engine queries. In *Proc. 17th Intl. World Wide Web Conference*, 2008.

[127] Lars Backstrom, Paolo Boldi, Marco Rosa, Johan Ugander, and Sebastiano Vigna. Four Degrees of Separation. *ArXiv 1111.4570*, November 2011.

[128] Lars Backstrom, Dan Huttenlocher, Jon Kleinberg, and Xiangyang Lan. Group formation in large social networks: Membership, growth, and evolution. In *KDD2006*, pages 44–54, 2006.

[129] David A. Bader, Shiva Kintali, Kamesh Madduri, and Milena Mihail. Approximating betweenness centrality. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[130] Antonio Badia and Mehmed Kantardzic. Graph building as a mining activity: Finding links in the small. In *KDD-WS2005A*, 2005.

[131] Ricardo Baeza-Yates, Paolo Boldi, and Carlos Castillo. Generalizing PageRank: Damping functions for link-based ranking algorithms. In *SIGIR2006*, pages 308–315, 2006.

[132] Ricardo Baeza-Yates, Carlos Castillo, and Felip Saint-Jean. Web dynamics, structure, and page quality. In *WWW-WS2003A*, 2003.

[133] Ricardo Baeza-Yates, Carlos Hurtado, and Marcelo Mendoza. Improving search engines by query clustering. *Journal of the American Society for Information Science and Technology*, 58(12):1793–1804, 2007.

[134] Ricardo Baeza-Yates and Bárbara Poblete. Dynamics of the Chilean Web structure. In *WWW-WS2004A*, 2004.

[135] Ricardo A. Baeza-Yates and Carlos Castillo. Crawling the infinite Web: Five levels are enough. In *FOCS-WS2004A*, pages 156–167, 2004.

[136] Franco Bagnoli and Michele Bezzi. Small world effects in evolution. *PRE*, 64(2):021914, August 2001.

[137] Jan Øystein Haavig Bakke, Alex Hansen, and János Kertész. Failure and avalanches in complex networks. Technical Report cond-mat/0605461, Arxiv.org, May 18, 2006.

[138] Eytan Bakshy, Itamar Rosenn, Cameron Marlow, and Lada Adamic. The Role of Social Networks in Information Diffusion. *ArXiv 1201.4145*, January 2012.

[139] R. Balasubramanyan, F. Lin, W. Cohen, M. Hurst, and N. Smith. From Episodes to Sagas: Understanding the News by Identifying Temporally Related Story Sequences. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[140] Maria-Florina Balcan and Avrim Blum. On a theory of learning with similarity functions. In *ICML2006*, pages 73–80, 2006.

[141] Michael E. Bales and Stephen B. Johnson. Graph theoretic modeling of large-scale semantic networks. *J. of Biomedical Informatics*, 39(4):451–464, 2006.

[142] Jaroslaw Baliński and Czeslaw Danilowicz. Re-ranking method based on inter-document distances. *IPM*, 41(4):759–775, July 2005.

[143] Andrey Balmin, Vagelis Hristidis, and Yannis Papakonstantinou. ObjectRank: Authority-based keyword search in databases. In *VLDB2004*, pages 564–575, 2004.

[144] Justin Balthrop, Stephanie Forrest, Mark E. J. Newman, and Matthew M. Williamson. Technological networks and the spread of computer viruses. *Science*, 304(5670):527–529, April 23, 2004.

[145] Andreas Baltz and Lasse Kliemann. Spectral analysis. In Ulrik Brandes and Thomas Erlebach, editors, *Network Analysis: Methodological Foundations*, pages 373–416. Springer Berlin/Heidelberg, 2005. Lecture Notes in Computer Science - Volume 3418.

[146] K. Ban, A. Meštrović, and S. Martinčić-Ipšić. Initial Comparison of Linguistic Networks Measures for Parallel Texts. *ArXiv e-prints*, May 2014.

[147] R. Bandari, H. Rahmandad, and V. P. Roychowdhury. Blind Men and the Elephant: Detecting Evolving Groups In Social News. *ArXiv e-prints*, April 2013.

[148] Roja Bandari, Sitaram Asur, and Bernardo A. Huberman. The Pulse of News in Social Media: Forecasting Popularity. *ArXiv 1202.0332*, February 2012.

[149] Arindam Banerjee, Inderjit Dhillon, Joydeep Ghosh, Srujana Merugu, and Dharmendra S. Modha. A generalized maximum entropy approach to bregman co-clustering and matrix approximation. In *KDD '04: Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 509–514, New York, NY, USA, 2004. ACM.

[150] Nikhil Bansal, Avrim Blum, and Shuchi Chawla. Correlation clustering. In *FOCS2002*, pages 238–250, 2002.

[151] Nikhil Bansal, Avrim Blum, and Shuchi Chawla. Correlation clustering. *ML*, 56(1-3):89–113, 2004.

[152] Judit Bar-Ilan. Towards a framework for link characterization. In *WWW-WS2003A*, 2003.

[153] Judit Bar-Ilan. Comparing rankings of search results on the Web. *IPM*, 41(6):1511–1519, December 2005.

[154] Judit Bar-Ilan. What do we know about links and linking? a framework for studying links in academic environments. *IPM*, 41(4):973–986, July 2005.

[155] Judit Bar-Ilan. An ego-centric citation analysis of the works of Michael O. Rabin based on multiple citation indexes. *IPM*, 42(6):1553–1566, December 2006.

[156] Judit Bar-Ilan and Bluma C. Peritz. Evolution, continuity, and disappearance of documents on a specific topic on the Web: A longitudinal study of infometrics. *JASIST*, 55(11):980–990, September 2004.

[157] Z. Bar-Yossef, A. Berg, S. Chien, J. Fakcharoenphol, and D. Weitz. Approximating aggregate queries about Web pages via random walks. In *VLDB2000*, pages 535–544, 2000.

[158] Ziv Bar-Yossef and Maxim Gurevich. Random sampling from a search engine's index. In *WWW2006*, pages 367–376, 2006.

[159] A. L. Barabási and E. Bonabeau. Scale-free networks. *Sci Am*, 288(5):60–69, May 2003.

[160] Albert-László Barabási. *Linked: The New Science of Networks*. Perseus, New York, 2002.

[161] Albert-László Barabási. The architecture of complexity: The structure and the dynamics of networks, from the Web to the cell. In *KDD2005*, page 3, 2005.

[162] Albert-László Barabási. Network theory-the emergence of the creative enterprise. *SCIENCE*, 308(2):639–641, April 2005.

[163] Albert-L'aszl&o Barab'asi. The origin of bursts and heavy tails in human dynamics, May 2005.

[164] Albert-László Barabási and Réka Albert. Emergence of scaling in random networks. *Science*, 286(5439):509–512, October 15, 1999.

[165] Albert-László Barabási, Réka Albert, and Hawoong Jeong. Mean-field theory for scale-free random networks. *Physica A*, 272(2):173–187, 1999.

[166] Albert-László Barabási, Réka Albert, Hawoong Jeong, and J. B. Brockman. Power-law distribution of the World Wide Web. *Science*, 287:2115a, 2000.

[167] Albert-László Barabási, Hawoong Jeong, Zoltan Néda, Erzsebet Ravasz, A. Schubert, and Tamas Vicsek. Evolution of the social network of scientific collaborations. *Physica A*, 311(4):590–614, 2002.

[168] Albert-László Barabási, Zoltán N. Oltvai, and Stefan Wuchty. Characteristics of biological networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 443–457. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[169] Albert-László Barabási, Erzsebet Ravasz, and Tamas Vicsek. Deterministic scale-free networks. *Physica A*, 299(4):559–564, 2001.

[170] A. D. Barbour and Gesine Reinert. Small worlds. *Random Structures and Algorithms*, 19(1):54–74, 2001.

[171] Franz Barjak, Xuemei Li, and Mike Thelwall. Which factors explain the web impact of scientists' personal homepages? *J. Am. Soc. Inf. Sci. Technol.*, 58(2):200–211, 2007.

[172] Andrea Baronchelli and Vittorio Loreto. Data compression approach to information extraction and classification. Technical Report cond-mat/0403233, Arxiv.org, August 20, 2004.

[173] Alain Barrat, M. Barthélemy, R. Pastor-Satorras, and A. Vespignani. The architecture of complex weighted networks. *PNAS*, 101(11):3747–3752, March 2004.

[174] Alain Barrat, Marc Barthélemy, and Alessandro Vespignani. Traffic-driven model of the World Wide Web graph. In *FOCS-WS2004A*, pages 56–67, 2004.

[175] Alain Barrat, Marc Bethélemy, and Alessandro Vespignani. Modeling the evolution of weighted networks. *PRE*, 70:066149, 2004.

[176] Alain Barrat and M. Weigt. On the properties of small-world network models. *The European Physical Journal B*, 13:547–560, 2000.

[177] Marc Barthélémy and Luís A. Nunes Amaral. Small-world networks: evidence for a crossover picture. *PRL*, 82:3180–3183, 1999.

[178] Marc Barthlemy, Jean-Pierre Nadal, and Henri Berestycki. Disentangling collective trends from local dynamics. *Proceedings of the National Academy of Sciences*, 107(17):7629–7634, 2010.

[179] Francesco Bartolucci. Decomposition of the h-index. *ArXiv 1201.6179*, January 2012.

[180] Vladimir Batagelj and Andrej Mrvar. Density based approaches to network analysis: Analysis of Reuters terror news network. In *KDD-WS2003A*, 2003.

[181] Vladimir Batagelj and Andrej Mrvar. *Pajek: Program for Analysis and Visualization of Large Networks*, March 27, 2006.

[182] Vladimir Batagelj, Andrej Mrvar, and Matjaž Zaveršnik. Network analysis of texts. In *In T. Erjavec, and J. Gros (Eds.) Proc of the 5th International Multi-Conference Information Society - Language Technologies*, 2002.

[183] M. Bauer and D. Bernard. A simple asymmetric evolving random network. Technical Report cond-mat/0203232, Arxiv.org, 2002.

[184] François Bavaud and Guillaume Guex. Interpolating between random walks and shortest paths: a path functional approach. *CoRR*, abs/1207.1253, 2012.

[185] R. J. Baxter. *Exactly Solved Models in Statistical Mechanics*. Academic Press, London, 1982.

[186] Luca Becchetti, Carlos Casillo, Debora Donato, Stefano Leonardi, and Ricardo Baeza-Yates. Using rank propagation and probabilistic counting for link-based spam detection. In *Proceedings of the 2006 Workshop on The Future of Web Search*, Barcelona, Spain, May 19-20 2006.

[187] Luca Becchetti, Carlos Castillo, Debora Donato Ricardo Baeza-Yates, and Stefano Leonardi. Link analysis for web spam detection. In *Workshop On Algorithms And Models For The Web-Graph (WAW2006)*, page 5, 2006.

[188] Doug Beeferman and Adam Berger. Agglomerative clustering of a search engine query log. In *KDD2000*, pages 407–416, 2000.

[189] Béla Bollobás and Oliver Riordan. Coupling scale-free and classical random graphs. *Internet Mathematics*, 1(2):215–225, 2003.

[190] Theodore C. Belding. Nobility and stupidity: Modeling the evolution of class endogamy. Technical Report nLin.AO/0405048, Arxiv.org, June 3, 2004.

[191] Mikhail Belkin, Irina Matveeva, and Partha Niyogi. Regularization and semi-supervised learning on large graphs. In *COLT2004*, 2004.

[192] Mikhail Belkin and Partha Niyogi. Laplacian Eigenmaps and spectral techniques for embedding and clustering. In *NIPS2001*, pages 585–591, 2001.

[193] Mikhail Belkin and Partha Niyogi. Using manifold structure for partially labelled classification. In *NIPS2002*, pages 929–936, 2002.

[194] Mikhail Belkin and Partha Niyogi. Laplacian Eigenmaps for dimensionality reduction and data representation. *Neural Computation*, 15(6):1373–1396, 2003.

[195] Mikhail Belkin and Partha Niyogi. Semi-supervised learning on Riemannian manifolds. *ML*, 56(1-3):209–239, 2004.

[196] Mikhail Belkin and Partha Niyogi. Semi-supervised learning on riemannian manifolds. *Machine learning*, 56(1-3):209–239, 2004.

[197] Mikhail Belkin, Partha Niyogi, and Vikas Sindhwani. Manifold regularization: A geometric framework for learning from labeled and unlabeled examples. *JMLR*, 7:2399–2434, November 2006.

[198] Mikhail Belkin, Partha Niyogi, and Vikas Sindhwani. Manifold regularization: A geometric framework for learning from labeled and unlabeled examples. *J. Mach. Learn. Res.*, 7:2399–2434, 2006.

[199] Eli Ben-Naim, Paul L. Krapivsky, and Sidney Redner. Extremal properties of random structures. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 211–233. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[200] András A. Benczúr, Károly Csalogány, Tamás Sarlós, and Máté Uher. SpamRank - fully automatic link spam detection. In *WWW-WS2005A*, 2005.

[201] Tamás Sarlós András A. Benczúr, Károly Csalogány, Dániel Fogaras, and Balázs Rácz. To randomize or not to randomize: Space optimal summaries for hyperlink analysis. In *WWW2006*, pages 297–306, 2006.

[202] E. A. Bender and E. R. Canfield. The asymptotic number of labelled graphs with given degree sequences. *Journal of Combinatorial Theory A*, 24:296–307, 1978.

[203] Charles H. Bennett, Ming Li, and Bin Ma. Chain letters and evolutionary histories. June 2003.

[204] Kristin P. Bennett and Ayhan Demiriz. Semi-supervised support vector machines. In *NIPS1998*, pages 368–374, 1998.

[205] Gerald Benoît. Application of Markov chains in an interactive information retrieval system. *IPM*, 41(4):843–857, July 2005.

[206] Stephen J. Bensman. Pearson's r and author cocitation analysis: A commentary on the controversy. *JASIST*, 55(10):935, August 2004.

[207] Michele Benzi, Ernesto Estrada, and Christine Klymko. Ranking hubs and authorities using matrix functions. *ArXiv 1201.3120*, January 2012.

[208] Klaus Berberich, Srikanta Bedathur, and Gerhard Weikum. Rank synopses for efficient time travel on the web graph. In *CIKM '06: Proceedings of the 15th ACM international conference on Information and knowledge management*, pages 864–865, New York, NY, USA, 2006. ACM.

[209] Klaus Berberich, Michalis Vazirgiannis, and Gerhard Weikum. T-Rank: Time-aware authority ranking. In *FOCS-WS2004A*, pages 131–142, 2004.

[210] Johannes Berg and Michael Lässig. Correlated random networks. Technical Report cond-mat/0205589, Arxiv.org, 2002.

[211] Jonah Berger and Gal Le Mens. How adoption speed affects the abandonment of cultural tastes. *Proceedings of the National Academy of Sciences*, 106(20):8146–8150, 2009.

[212] Americo T. Bernardes, Dietrich Stauffer, and Janos Kertész. Election results and the Sznajd model on Barabási network. *The European Physical Journal B*, 25:123–127, 2002.

[213] Sergi Valverde Bernat Corominas-Murtra and Ricard V. Solé. The ontogeny of scale-free syntax networks through language acquisition. Technical report, Santa Fe Institute, 2007.

[214] Upinder S. Bhalla and Ravi Iyengar. Emergent properties of networks of biological signaling pathways. *Science*, 283:339–340, January 15, 1999.

[215] Krishna Bharat and Andrei Broder. A technique for measuring the relative size and overlap of public Web search engines. In *WWW1998*, 1998.

[216] Krishna Bharat, Andrei Broder, Monika Henzinger, Puneet Kumar, and Suresh Venkatasubramanian. The connectivity server: Fast access to linkage information on the Web. *CNIS*, 30(1-7):469–477, April 1, 1998.

[217] Krishna Bharat, B. Chang, M. Henzinger, and M. Ruhl. Who links to whom: Mining linkage between Web sites. In *In Proceedings of IEEE ICDM-01*, pages 51–58, 2001.

[218] Krishna Bharat and Monika Rauch Henzinger. Improved algorithms for topic distillation in a hyperlinked environment. In *SIGIR1998*, pages 104–111, 1998.

[219] Indrajit Bhattacharya and Lise Getoor. Deduplication and group detection using links. In *KDD-WS2004A*, 2004.

[220] Piotr Bialas, Zdzislaw Burda, and Des Johnston. Condensation in the backgammon model. *Nuclear Physics B*, 493(3):505–516, 1997.

[221] Monica Bianchini, Marco Gori, and Franco Scarselli. Inside Google's Web page scoring system, 2001.

[222] Monica Bianchini, Marco Gori, and Franco Scarselli. PageRank: A circuital analysis. In *WWW2002*, 2002.

[223] Monica Bianchini, Marco Gori, and Franco Scarselli. Inside PageRank. *ACM-TOIT*, 5(1):92–128, February 2005.

[224] Ginestra Bianconi. Mean-field solution of the ising model on a barabási-Albert network. Technical Report cond-mat/0204455, Arxiv.org, 2002.

[225] Ginestra Bianconi and Albert-László Barabási. Bose-Einstein condensation in complex networks. *PRL*, 86(24):5632–5635, June 11, 2001.

[226] Ginestra Bianconi and Albert-László Barabási. Competition and multi-scaling in evolving networks. *Europhysics Letters*, 54(4):436–442, 2001.

[227] Ginestra Bianconi and Matteo Marsili. Number of cliques in random scale-free network ensembles. Technical Report cond-mat/0606088, Arxiv.org, June 5, 2006.

[228] Chris Biemann. Chinese whispers - an efficient graph clustering algorithm and its application to natural language processing problems. In *Proceedings of TextGraphs: the Second Workshop on Graph Based Methods for Natural Language Processing*, pages 73–80, New York City, June 2006. Association for Computational Linguistics.

[229] Chris Biemann. Unsupervised part-of-speech tagging employing efficient graph clustering. In *Proceedings of the COLING/ACL 2006 Student Research Workshop*, pages 7–12, Sydney, Australia, July 2006. Association for Computational Linguistics.

[230] Sven Bilke and Carston Peterson. Topological properties of citation and metabolic networks. *PRE*, 64(3):036106, September 2001.

[231] Bodo Billerbeck, Falk Scholer, Hugh E. Williams, and Justin Zobel. Query expansion using associated queries. In *CIKM2003*, pages 2–9, 2003.

[232] Lennart Bjorneborn and Peter Ingwersen. Toward a basic framework for webometrics. *JASIST*, 55(14):1216–1227, December 2004.

[233] Ph Blanchard and T. Krueger. The "cameo principle" and the origin of scale-free graphs in social networks, 2003.

[234] Hendrik Blockeel and Sašo Džeroski. MultiRelational data mining 2005: Workshop report. *SIGKDD-EN*, 7(2):126–128, 2005.

[235] Vincent D. Blondel, Anahí Gajardo, Maureen Heymans, Pierre Senellart, and Paul Van Dooren. A measure of similarity between graph vertices: Applications to synonym extraction and Web searching. *Society for Industrial and Applied Mathematics Review*, 46(4), 2004.

[236] Vincent D Blondel, Jean-Loup Guillaume, Ren aud Lambiotte, and Etienne Lefebvre. Fast unfolding of communities in large networks. *Journal of Statistical Mechanics: Theory and Experiment*, 2008(10):P10008, 2008.

[237] Vincent D Blondel, Jean-Loup Guillaume, Renaud Lambiotte, and Etienne Lefebvre. Fast unfolding of communities in large networks. *Journal of statistical mechanics: theory and experiment*, 2008(10):P10008, 2008.

[238] William James Bluestein. *Hypertext versions of journal articles: computer aided linking and realistic human evaluation.* PhD thesis, University of Western Ontario, 1999.

[239] Avrim Blum, John D. Lafferty, Mugizi Robert Rwebangira, and Rajashekar Reddy. Semi-supervised learning using randomized mincuts. In *ICML2004*, 2004.

[240] Avrim Blum and Tom Mitchell. Combining labeled and unlabeled data with co-training. In *Proceedings of the Eleventh Annual Conference on Computational Learning Theory (COLT '98)*, pages 92–100, Madison, Wisconsin, USA, 1998. ACM.

[241] Richard A Blythe. Hierarchy of scales in language dynamics. *arXiv preprint arXiv:1505.00122*, 2015.

[242] Vladimir V. Bochkarev, Anna V. Shevlyakova, and Valery Solovyev. Average word length dynamics as indicator of cultural changes in society. *CoRR*, abs/1208.6109, 2012.

[243] Paolo Boldi, Marco Rosa, and Sebastiano Vigna. Robustness of Social Networks: Comparative Results Based on Distance Distributions. *ArXiv 1110.4474*, October 2011.

[244] Paolo Boldi, Massimo Santini, and Sebastiano Vigna. Do your worst to make the best: Paradoxical effects in PageRank incremental computations. In *FOCS-WS2004A*, pages 168–180, 2004.

[245] J. Bollen, B. Goncalves, G. Ruan, and H. Mao. Happiness is assortative in online social networks. *ArXiv e-prints*, 1103.0784, March 2011.

[246] Johan Bollen, Bruno Gonçalves, Ingrid van de Leemput, and Guangchen Ruan. The happiness paradox: your friends are happier than you. *arXiv preprint arXiv:1602.02665*, 2016.

[247] Johan Bollen, Marko A. Rodriguez, and Herbert Van de Sompel. Journal status. *Scientometrics*, 69(3):669–687, December 2006.

[248] Béla Bollobás. A probabilistic proof of an asymptotic formula for the number of labelled random graphs. *The European Journal of Combinatorics*, 1(311–316), 1980.

[249] Béla Bollobás. *Random Graphs*. Academic Press, London, United Kingdom, 1985.

[250] Béla Bollobás. *Modern Graph Theory*. Springer, New York, 1998.

[251] Béla Bollobás and Wenceslas Fernandez de la Vega. The diameter of random regular graphs. *Combinatorica*, 2(2):125–134, 1982.

[252] Bela Bollobas, Svante Janson, and Oliver Riordan. The phase transition in inhomogeneous random graphs. Technical Report math.PR/0504589, Arxiv.org, August 31, 2005.

[253] Béla Bollobás and Oliver Riordan. The diameter of a scale-free random graph. Preprint, 2003.

[254] Béla Bollobás and Oliver Riordan. Robustness and vulnerability of scale-free random graphs. *Internet Mathematics*, 1(1):1–35, 2003.

[255] Béla Bollobás and Oliver Riordan. The phase transition and connectedness in uniformly grown random graphs. In *FOCS-WS2004A*, pages 1–18, 2004.

[256] Béla Bollobás, Oliver Riordan, Joel Spencer, and Gabor Tusnady. The degree sequence of a scale-free random graph process. *Random Structure Algorithms*, 18:279–290, 2001.

[257] Philip Bonacich. Power and centrality: A family of measures. *AJS*, 92(5):1170–1182, March 1987.

[258] A. Bonato and J. Janssen. Limits of models of the Web graph. In *FOCS-WS2002A*, 2002.

[259] Anthony Bonato and Jeanette Janssen. Infinite limits of copying models of the Web graph. *Internet Mathematics*, 1(2):193–213, 2003.

[260] Laurent Bonnasse-Gahot, Henri Berestycki, Marie-Aude Depuiset, Mirta B Gordon, Sebastian Roché, Nancy Rodriguez, and Jean-Pierre Nadal. Epidemiological modeling of the 2005 french riots: a spreading wave and the role of contagion. *arXiv preprint arXiv:1701.07479*, 2017.

[261] Stefan Bordag, Gerhard Heyer, and Uwe Quasthoff. Small worlds of concepts and other principles of semantic search. *LNCS*, 2877:10–19, 2003.

[262] A. Bordes, S. Chopra, and J. Weston. Question Answering with Subgraph Embeddings. *ArXiv e-prints*, June 2014.

[263] Stephen P. Borgatti. Centrality and network flow. *Social Networks*, (27):55–71, 2005.

[264] Eduardo N. Borges, Moises G. de Carvalho, Renata Galante, Marcos A. Gonsalves, and Alberto H. F. Laender. An unsupervised heuristic-based approach for bibliographic metadata deduplication. *Information Processing & Management, Vol. 47, No. 5.*, September 2011.

[265] Christian Borgs, Jennifer Chayes, Constantinos Daskalakis, and Sebastien Roch. First to market is not everything: an analysis of preferential attachment with fitness. In *STOC '07: Proceedings of the thirty-ninth annual ACM symposium on Theory of computing*, pages 135–144, New York, NY, USA, 2007. ACM.

[266] Christian Borgs, Jennifer T. Chayes, Mohammad Mahdian, and Amin Saberi. Exploring the community structure of newsgroups. In *KDD2004*, pages 783–787, 2004.

[267] Katy Börner, Jeegar T. Maru, and Robert L. Goldstone. The simultaneous evolution of author and paper networks. *ArXiv.org e-Prints*, November 2003.

[268] Stefan Bornholdt and Holger Ebel. World-wide Web scaling exponent from simon's 1955 model. *PRE*, 64(3):035104, September 2001.

[269] Stefan Bornholdt and Thimo Rohlf. Topological evolution of dynamical networks: Global criticality from local dynamical rules. *PRL*, 84(26):6114–6117, June 26, 2000.

[270] Stefan Bornholdt and Heinz Georg Schuster, editors. *Handbook of Graphs and Networks*. Wiley-VCH, Berlin, 2002.

[271] Lutz Bornmann, Rüdiger Mutz, and Hans-Dieter Daniel. Are there better indices for evaluation purposes than the h index? a comparison of nine different variants of the h index using data from biomedicine. *J. Am. Soc. Inf. Sci. Technol.*, 59(5):830–837, 2008.

[272] Allan Borodin, Gareth O. Roberts, Jeffrey S. Rosenthal, and Panayiotis Tsaparas. Finding authorities and hubs from link structures on the World Wide Web. In *WWW2001*, pages 415–429, 2001.

[273] Allan Borodin, Gareth O. Roberts, Jeffrey S. Rosenthal, and Panayiotis Tsaparas. Link analysis ranking: Algorithms, theory, and experiments. *ACM-TOIT*, 5(1):231–297, February 2005.

[274] Indrani Bose. Biological networks. Technical Report cond-mat/0202192, Arxiv.org, 2002.

[275] Rodrigo A. Botafogo and Ben Shneiderman. Identifying aggregates in hypertext structures. In *Proceedings of the 1991 Conference on Hypertext*, pages 63–74, San Antonio, Texas, USA, 1991. ACM Press.

[276] Fatma Bouali, Latifur Khan, and Florent Masseglia. The 6th international workshop on multimedia data mining (mdm/kdd2005). *SIGKDD-EN*, 7(2):148–150, 2005.

[277] Jean-Philippe Bouchaud and Marc Mézard. Wealth condensation in a simple model of economy. *Physica A*, 282(4):536–545, 2000.

[278] Jean-Philippe Bouchaud and Marc Potters. *Theory of Financial Risks: From Statistical Physics to Risk Management.* Cambridge University Press, Cambridge, 2000.

[279] Kevin W. Boyack, Henry Small, and Richard Klavans. Improving the accuracy of co-citation clustering using full text. *JASIST*, 64(9):1759–1767, 2013.

[280] Justin Boyan, Dayne Freitag, and Thorsten Joachims. A machine learning architecture for optimizing Web search engines. In *AAAI1996*, 1996.

[281] Yuri Boykov, Olga Veksler, and Ramin Zabih. Fast approximate energy minimization via graph cuts. In *Proceedings of the International Conference on Computer Vision (ICCV 1)*, pages 377–384, 1999.

[282] Enrico Bozzo and Massimo Franceschet. Effective and efficient approximations of the generalized inverse of the graph laplacian matrix with an application to current-flow betweenness centrality. *CoRR*, abs/1205.4894, 2012.

[283] Milan Bradonjic, Aric Hagberg, and Allon Percus. Giant component and connectivity in geographical threshold graphs. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[284] Philip Bramsen, Pawan Deshpande, Yoong Keok, and Lee Regina Barzilay. Inducing temporal graphs. In *In Proceedings of the Empirical Methods in Natural Language Processing (EMNLP)*, 2006.

[285] Thorsten Brants. Test data likelihood for PLSA models. *IR*, 8(2):181–196, April 2005.

[286] Tim Bray. Measuring the Web. In *WWW1996*, pages 993–1005, 1996.

[287] Brian E. Brewington and George Cybenko. How dynamic is the Web? In *WWW2000*, 2000.

[288] Brian E. Brewington and George Cybenko. Keeping up with the changing Web. *IEEE-C*, 33(5):52–58, 2000.

[289] Sergey Brin and Lawrence Page. The anatomy of a large-scale hypertextual Web search engine. *CNIS*, 30(1–7):107–117, 1998.

[290] Michael Brinkmeier. PageRank revisited. *ACM-TOIT*, 6(3):282–301, August 2006.

[291] A. Z. Broder, R. Lempel, F. Maghoul, and J. Pedersen. Efficient PageRank approximation via graph aggregation. *IR*, 9(2):123–138, March 2006.

[292] Andrei Broder, Marcus Fontura, Vanja Josifovski, Ravi Kumar, Rajeev Motwani, Shubha Nabar, Rina Panigrahy, Andrew Tomkins, and Ying Xu. Estimating corpus size via queries. In *CIKM2006*, pages 594–603, 2006.

[293] Andrei Broder, Ravi Kumar, Farzin Maghoul, Prabhakar Raghavan, Sridhar Rajagopalan, Raymie Stata, Andrew Tomkins, and Janet Wiener. Graph structure in the web. In *WWW2000*, 2000.

[294] Andrei Z. Broder, Steven C. Glassman, Mark S. Manasse, and Geoffrey Zweig. Syntactic clustering of the Web. In *WWW1997*, 1997.

[295] Andrei Z. Broder, Robert Krauthgamer, and Michael Mitzenmacher. Improved classification via connectivity information. In *Proceedings of the Twelfth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '00)*, pages 576–585, San Francisco, California, United States, 2000. Society for Industrial and Applied Mathematics.

[296] P. Bródka and P. Kazienko. Multi-layered Social Networks. *ArXiv e-prints*, December 2012.

[297] P. Bródka, S. Saganowski, and P. Kazienko. Tracking Group Evolution in Social Networks. *ArXiv e-prints*, October 2012.

[298] Christopher H. Brooks and Nancy Montanez. Improved annotation of the blogosphere via autotagging and hierarchical clustering. In *WWW '06: Proceedings of the 15th international conference on World Wide Web*, pages 625–632, New York, NY, USA, 2006. ACM Press.

[299] James H. Brown, Vijay K. Gupta, Bai-Lian Li, Bruce T. Milne, Carla Restrepo, and Geoffrey B. West. The fractal nature of nature: Power laws, ecological complexity and biodiversity. *Philosophical Transactions of the Royal Society of London B*, 357(1421):619–626, May 29, 2002.

[300] Joan Bruna, Wojciech Zaremba, Arthur Szlam, and Yann LeCun. Spectral networks and locally connected networks on graphs. *arXiv preprint arXiv:1312.6203*, 2013.

[301] Kurt Bryan and Tanya Leise. The 25,000,000,000 dollars eigenvector The linear algebra behind Google. *SIAM Review*, 48(3):569–581, September 2006.

[302] Mark Buchanan. *Nexus: Small Worlds and the Groundbreaking Science of Networks*. W. W. Norton & Co., New York, 2002.

[303] Zdzislaw Burda, Joao D. Correia, and Andre Krzywicki. Statistical ensemble of scale-free random graphics. *PRE*, 64(4):046118, October 2001.

[304] Zdzislaw Burda, D. Johnston, Jerzy Jurkiewicz, M. Kaminski, Maciej A. Nowak, Gabor Papp, and Ismail Zahed. Wealth condensation in Pareto macro-economics. *PRE*, 65:026102, 2002.

[305] Quentin L. Burrell. Will this paper ever be cited? *JASIST*, 53(3):232–235, 2002.

[306] Quentin L. Burrell. Age-specific citation rates and the Egghe-Rao function. *IPM*, 39(5):761–770, September 2003.

[307] Quentin L. Burrell. Predicting future citation behavior. *JASIST*, 54(5):372–378, March 2003.

[308] Quentin L. Burrell. Fitting Lotka's law: Some cautionary observations on a recent paper by Newby et al. (2003). *JASIST*, 55(13):1209–1210, December 2004.

[309] Declan Butler. Souped-up search engines. *Nature*, 405(6783):112, 2000.

[310] Deng Cai, Zheng Shao, Xiaofei He, Xifeng Yan, and Jiawei Han. Mining hidden community in heterogeneous social networks. In *KDD-WS2005A*, pages 58–65, 2005.

[311] Pável Calado, Marco Cristo, Edleno Silva de Moura, Nivio Ziviani, Berthier A. Ribeiro-Neto, and Marcos André Gonçalves. Combining link-based and content-based methods for Web document classification. In *CIKM2003*, pages 394–401, 2003.

[312] Pável Calado, Marco Cristo, Marcos André Gonçalves, Edleno S. de Moura, Berthier Ribeiro-Neto, and Nivio Ziviani. Link-based similarity measures for the classification of Web documents. *JASIST*, 57(2):208–221, January 2006.

[313] Pável Calado, Berthier Ribeiro-Neto, Nivio Ziviani, Edleno Moura, and Ilmério Silva. Local versus global link information in the Web. *ACM-TOIS*, 21(1):42–63, January 2003.

[314] G. Caldarelli, A. Capocci, P. De Los Rios, and M.A. Munoz. Scale-free networks without growth or preferential attachment: Good get richer. Technical Report cond-mat/0207366, Arxiv.org, October 28, 2002.

[315] G. Caldarelli, P. De Los Rios, L. Laura, and S. Leonardi. A multi-layer model for the Webgraph. In *2nd International Workshop on Web Dynamics*, Honolulu, Hawaii, May 2002.

[316] G. Caldarelli, P. De Los Rios, L. Laura, S. Leonardi, and S. Millozzi. A study of stochastic models for the Web Graph. Technical Report 04-03, dipartimento di Informatica e Sistemistica, Universita' di Roma "La Sapienza", 2003.

[317] G. Caldarelli, P. De Los Rios, L. Laura, S. Leonardi, and S. Millozzi. A study of the properties of Web graphs. In *2nd Workshop on Algorithms and Models for the Web-Graph (WAW 2003)*, Budapest, Hungary, May 2003.

[318] Guido Caldarelli and Diego Garlaschelli. Self-organization and complex networks. *ArXiv e-prints*, 0806(1655), June 2008.

[319] Silvia M. G. Caldeira, Thierry C. Petit Lob ao, R. F. S. Andrade, Alexis Neme, and J. G. V. Miranda. The network of concepts in written texts. *European Physical Journal B*, 49(4):523–529, February 2006.

[320] Duncan S. Callaway, John E. Hopcroft, Jon M. Kleinberg, Mark E. J. Newman, and Steven H. Strogatz. Are randomly grown graphs really random? *PRE*, 64(4):041902, October 2001.

[321] Duncan S. Callaway, Mark E. J. Newman, Steven H. Strogatz, and Duncan J. Watts. Network robustness and fragility: Percolation on random graphs. *PRL*, 85(25):5468–5471, December 18, 2000.

[322] Antoni Calvó-Armengol and Yves Zenou. Job matching, social network and word-of-mouth communication. Technical Report nep/0111003, Arxiv.org, 2001.

[323] A. Capocci, V. D. P. Servedio, F. Colaiori, L. S. Buriol, D. Donato, S. Leonardi, and G. Caldarelli. Preferential attachment in the growth of social networks: the case of Wikipedia. *PRE*, 74, September 25, 2006.

[324] Andrea Capocci, Vito Domenico Pietro Servedio, Guido Caldarelli, and Francesca Colaiori. Communities detection in large networks. In *FOCS-WS2004A*, pages 181–188, 2004.

[325] J. M. Carlson and John Doyle. Highly optimized tolerance: A mechanism for power laws in designed systems. *PRE*, 60(2):1412–1427, August 1999.

[326] J. M. Carlson and John Doyle. Highly optimized tolerance: Robustness and design in complex systems. *PRL*, 84(11):2529–2532, March 13, 2000.

[327] Jeromy Carrière and Rick Kazman. Webquery: Searching and visualizing the Web through connectivity. In *WWW1997*, pages 701–711, 1997.

[328] Pádraig Mac Carron and Ralph Kenna. Universal properties of mythological networks. *CoRR*, abs/1205.4324, 2012.

[329] Ciro Cattuto, Andrea Baldassarri, Vito D. P. Servedio, and Vittorio Loreto. Emergent community structure in social tagging systems. *Advances in Complex Systems*, 11:597, 2007.

[330] Bikas K. Chakrabarti and Arnab Das. Tranverse Ising model, glass and quantum annealing. In Arnab Das and Bikas K. Chakrabarti, editors, *Quantum Annealing and Related Optimization Methods*. Springer, Heidelberg, 2005. Lecture Notes in Physics - Volume 679.

[331] Deepayan Chakrabarti and Christos Faloutsos. Graph mining: Laws, generators, and algorithms. *ACM-CS*, 38(1):2, March 2006.

[332] Deepayan Chakrabarti, Ravi Kumar, and Andrew Tomkins. Evolutionary clustering. In *KDD2006*, pages 554–560, 2006.

[333] S. Chakrabarti, B. Dom, P. Raghavan, S. Rajagopalan, D. Gibson, and Jon M. Kleinberg. Automatic resource compilation by analyzing hyperlink structure and associated text. In *WWW1998*, pages 65–74, 1998.

[334] Soumen Chakrabarti. Discovering links between lexical and surface features in questions and answers. In *KDD-WS2004A*, 2004.

[335] Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, and Prabhakar Raghavan. Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies. *VLDB-J*, 7(3):163–178, 1998.

[336] Soumen Chakrabarti, Byron Dom, David Gibson, Jon Kleinberg, S. Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, and Andrew Tomkins. Hypersearching the Web. *Scientific American*, 280(6):54–60, June 1999.

[337] Soumen Chakrabarti, Byron Dom, and Piotr Indyk. Enhanced hypertext categorization using hyperlinks. In *SIGMOD1998*, pages 307–318, 1998.

[338] Soumen Chakrabarti, Byron E. Dom, S. Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, Andrew Tomkins, David Gibson, and Jon Kleinberg. Mining the Web's link structure. *Computer*, 32(8):60–67, 1999.

25

[339] Soumen Chakrabarti, Byron E. Dom, S. Ravi Kumar, Prabhakar Ragha-van, Sridhar Rajagopalan, Andrew Tomkins, David Gibson, and Jon Kleinberg. Mining the Web's link structure. *Computer*, 32(8):60–67, 1999.

[340] Soumen Chakrabarti and Byron Edward Dom. Feature diffusion across hyperlinks, April 1998.

[341] Soumen Chakrabarti, David A. Gibson, and Kevin S. McCurley. Surfing the Web backwards. In *WWW1999*, pages 1679–1693, 1999.

[342] Soumen Chakrabarti, Mukul Joshi, and Vivek Tawde. Enhanced topic distillation using text, markup tags, and hyperlinks. In *SIGIR2001*, pages 208–216, 2001.

[343] Soumen Chakrabarti, Mukul M. Joshi, Kunal Punera, and David M. Pennock. The structure of broad topics on the Web. In *WWW2002*, pages 251–262, 2002.

[344] Soumen Chakrabarti, Kunal Punera, and Mallela Subramanyam. Ac-celerated focused crawling through online relevance feedback. In *WWW2002*, 2002.

[345] Soumen Chakrabarti, Martin van den Berg, and Byron Dom. Focused crawling: A new approach to topic-specific Web resource discovery. In *WWW1999*, 1999.

[346] Jon Chamberlain, Udo Kruschwitz, and Massimo Poesio. Motivations for Participation in Socially Networked Collective Intelligence Systems. *ArXiv 1204.4071*, April 2012.

[347] O. Chapelle and A. Zien. Semi-supervised classification by low density separation. In *AISTAT*, 2005.

[348] Olivier Chapelle, Bernhard Schölkopf, and Alexander Zien. Semi-supervised learning. In Olivier Chapelle, Bernhard Schölkopf, and Alexander Zien, editors, *Semi-Supervised Learning*. MITP, 2006.

[349] Moses Charikar. Greedy approximation algorithms for finding dense components in a graph. In *APPROX '00: Proceedings of the Third In-ternational Workshop on Approximation Algorithms for Combinatorial Optimization*, pages 84–95, London, UK, 2000. Springer-Verlag.

[350] Moses Charikar, Eric Lehman, Ding Liu, Rina Panigrahy, Manoj Prab-hakaran, April Rasala, Amit Sahai, and Abhi Shelat. Approximating the smallest grammar: Kolmogorov complexity in natural models. In *STOC '02: Proceedings of the thiry-fourth annual ACM symposium on Theory of computing*, pages 792–801, New York, NY, USA, 2002. ACM Press.

[351] Arnab Chatterjee and Parongama Sen. Phase transitions in Ising model on a Euclidian network. Technical Report cond-mat/0606138, Arxiv.org, August 2, 2006.

[352] Snigdha Chaturvedi, Shashank Srivastava, Hal Daume III, and Chris Dyer. Modeling evolving relationships between characters in literary novels. In *Thirtieth AAAI Conference on Artificial Intelligence*, 2016.

[353] Michael Chau, Xiao Fang, and Olivia R. Liu Sheng. Analysis of the query logs of a web site search engine. *JASIST*, 56(13):1363–1376, November 2005.

[354] N. V. Chawla and G. Karakoulas. Learning from labeled and unlabeled data: An empirical study across techniques and domains. *JAIR*, 23:331–366, 2005.

[355] P. Chen, H. Xie, S. Maslov, and S. Redner. Finding scientific gems with google's pagerank algorithm. *Journal of Informetrics*, 1(1):8–15, January 2007.

[356] Pin-Yu Chen and Alfred O. Hero III. Phase transitions in spectral community detection of large noisy networks. *CoRR*, abs/1504.02412, 2015.

[357] Qian Chen, Hyunseok Chang, Ramesh Govindan, Sugih Jamin, Scott J. Shenker, and Walter Willinger. The origin of power laws in internet topologies revisited. In *Proceedings of the Twenty-First Annual Joint Conference of the IEEE Computer and Communications Societies (Infocom '02)*, 2002.

[358] S.-H. Chen and S.-P. Li. Econophysics: Bridges over a Turbulent Current. *ArXiv e-prints*, July 2011.

[359] Y.-H. Chen, R.-Y. Pan, and X.-D. Zhang. The Laplacian Spectra of Graphs and Complex Networks. *ArXiv* , November 2011.

[360] Ye-Sho Chen, P. Pete Chong, and Morgan Y. Tong. Dynamic behavior of Bradford's law. *JASIS*, 46(5):321–397, June 1995.

[361] Yen-Yu Chen, Qingqing Gan, and Torsten Suel. I/O-efficient techniques for computing PageRank. In *CIKM2002*, pages 549–557, 2002.

[362] Yen-Yu Chen, Qingqing Gan, and Torsten Suel. Local methods for estimating PageRank values. In *WWW-WS2004A*, 2004.

[363] Zheng Chen, Shengping Liu, Liu Wenyin Geguang Pu, and Wei-Ying Ma. Building a Web thesaurus from Web link structure. In *SIGIR2003*, pages 48–55, 2003.

[364] Justin Cheng, Lada Adamic, P Alex Dow, Jon Michael Kleinberg, and Jure Leskovec. Can cascades be predicted? In *Proceedings of the 23rd international conference on World wide web*, pages 925–936. ACM, 2014.

[365] Yun Chi, Xiaodan Song, Dengyong Zhou, Koji Hino, and Belle L. Tseng. Evolutionary spectral clustering by incorporating temporal smoothness. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 153–162, New York, NY, USA, 2007. ACM Press.

[366] Yun Chi, Shenghuo Zhu, Xiaodan Song, Junichi Tatemura, and Belle L. Tseng. Structural and temporal analysis of the blogosphere through community factorization. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 163–172, New York, NY, USA, 2007. ACM Press.

[367] Steve Chien, Cynthia Dwork, Ravi Kumar, Daniel R. Simon, and D. Sivakumar. Link evolution: Analysis and algorithms. *Internet Mathematics*, 1(3):277–304, 2003.

[368] Paul-Alexandru Chirita, Jörg Diederich, and Wolfgang Nejdl. MailRank: Using ranking for spam detection. In *CIKM2005*, pages 373–380, 2005.

[369] Krishna Prasad Chitrapura and Srinivas R. Kashyap. Node ranking in labeled directed graphs. In *CIKM2004*, pages 248–249, 2004.

[370] Timothy Chklovski and Patrick Pantel. Path analysis for refining verb relations. In *KDD-WS2004A*, 2004.

[371] A. Chmiel, J. Sienkiewicz, M. Thelwall, G. Paltoglou, K. Buckley, A. Kappas, and J. A. Hołyst. Collective emotions online and their influence on community life. *ArXiv e-prints*, July 2011.

[372] Junghoo Cho, Narayanan Shivakumar, and Hector Garcia-Molina. Finding replicated Web collections. In *SIGMOD2000*, pages 355–366, 2000.

[373] Monojit Choudhury, Animesh Mukherjee, Anupam Basu, and Niloy Ganguly. Analysis and synthesis of the distribution of consonants over languages: A complex network approach. In *Proceedings of the COLING/ACL on Main conference poster sessions*, pages 128–135, Morristown, NJ, USA, 2006. Association for Computational Linguistics.

[374] Nicholas A. Christakis and James H. Fowler. The collective dynamics of smoking in a large social network. *N Engl J Med*, 358(21):2249–2258, May 2008.

[375] Kim Christensen, Raul Donangelo, Belita Koiller, and Kim Sneppen. Evolution of random networks. *PRL*, 81(11):2380–2383, September 14, 2000.

[376] Wei Chu and Zoubin Ghahramani. Extensions of Gaussian processes for ranking: Semi-supervised and active learning. In *NIPS-WS2005B*, pages 29–34, 2005.

[377] Fan Chung. The heat kernel as the pagerank of a graph. *Proceedings of the National Academy of Sciences*, December 2007.

[378] Fan Chung and Linyuan Lu. The small world phenomenon in hybrid power law graphs. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 89–104. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[379] Fan Chung, Linyuan Lu, and Van Vu. Eigenvalues of random power law graphs. In *FOCS-WS2002A*, 2002.

[380] Fan R. K. Chung. *Spectral Graph Theory*. American Mathematical Society, Providence, RI, 1997.

[381] Fan R. K. Chung and Linyuan Lu. The average distance in a random graph with given expected degrees. *Internet Mathematics*, 1(1):91–114, 2003.

[382] Fan R. K. Chung, Linyuan Lu, and Van Vu. The spectra of random graphs with given expected degrees. *Internet Mathematics*, 1(3):257–275, 2003.

[383] Philipp Cimiano and Steffen Staab. Learning by Googling. *SIGKDD-EN*, 6(2):24–33, 2004.

[384] Eric M. Clark, Jake Ryland Williams, Richard A. Galbraith, Chris A. Jones, Christopher M. Danforth, and Peter Sheridan Dodds. Sifting robotic from organic text: A natural language approach for detecting automation on twitter. *CoRR*, abs/1505.04342, 2015.

[385] Stephen Clark, Bob Coecke, Edward Grefenstette, Stephen Pulman, and Mehrnoosh Sadrzadeh. A quantum teleportation inspired algorithm produces sentence meaning from word meaning and grammatical structure. *CoRR*, abs/1305.0556, 2013.

[386] William A. V. Clark and Mark Fossett. Understanding the social context of the schelling segregation model. *Proceedings of the National Academy of Sciences*, 105(11):4109–4114, 2008.

[387] Aaron Clauset. Finding local community structure in networks. Technical Report physics/0503036, Arvix.org, March 2005.

[388] Aaron Clauset, Samuel Arbesman, and Daniel B Larremore. Systematic inequality and hierarchy in faculty hiring networks. *Science advances*, 1(1):e1400005, 2015.

[389] Aaron Clauset and Christopher Moore. How do networks become navigable? In *NIPS-WS2003A*, 2003.

29

[390] Aaron Clauset, Mark E. J. Newman, and Cristopher Moore. Finding community structure in very large networks. *PRE*, 70:066111, December 6, 2004.

[391] Aaron Clauset, Cosma R. Shalizi, and M. E. J. Newman. Power-law distributions in empirical data, June 2007.

[392] Aaron Clauset and Maxwell Young. Scale invariance in global terrorism. Technical Report physics/0502014, Arvix.org, May 2005.

[393] David Cohen. All the world's a net. *New Scientist*, 2338, April 13, 2002.

[394] Reuven Cohen, Keren Erez, Daniel ben Avraham, and Shlomo Havlin. Resilience of the Internet to random breakdowns. *PRL*, 85(21):4626–4628, November 20, 2000.

[395] William Cohen. Improving a page classifier with anchor extraction and link analysis. In *NIPS2002*, pages 1481–1488, 2002.

[396] David Cohn and Huan Chang. Learning to probabilistically identify authoritative documents. In *ICML2000*, pages 167–174, 2000.

[397] David Cohn and Thomas Hofmann. The missing link - a probabilistic model of document content and hypertext connectivity. In *NIPS2000*, pages 430–436, 2000.

[398] Vittoria Colizza, Alain Barrat, Marc Barthélemy, and Alessandro Vespignani. The role of the airline transportation network in the prediction and predictability of global epidemics. *PNAS*, 103(7):2015–2020, February 14, 2006.

[399] Kevyn Collins-Thompson and Jamie Callan. Query expansion using random walk models. In *CIKM2005*, pages 704–711, 2005.

[400] Francis Comets and Serguei Popov. On multidimensional branching random walks in random environment. Technical Report math/0507126, Arxiv.org, July 6, 2005.

[401] Brian Conrad and Michael Mitzenmacher. Power laws for monkeys typing randomly: The case of unequal probabilities. *IEEE Transactions on Information Theory*, 50(7):1403–1414, 2004.

[402] James Cook, Atish Das Sarma, Alex Fabrikant, and Andrew Tomkins. Your two weeks of fame and your grandmother's. In *Proceedings of the 2012 International Conference on the World Wide Web*, 2012.

[403] Robert Cooley. The use of Web structure and content to identify subjectively interesting Web usage patterns. *ACM-TOIT*, 3(2):93–116, May 2003.

[404] Colin Cooper and Alan Frieze. Crawling on simple models of Web graphs. *Internet Mathematics*, 1(1):57–90, 2003.

[405] Colin Cooper and Alan Frieze. A general model of Web graphs. *Random Structures and Algorithms*, 22:311–335, 2003.

[406] Colin Cooper, Ralf Klasing, and Michele Zito. Dominating sets in Web graphs. In *FOCS-WS2004A*, pages 31–43, 2004.

[407] G. Cordasco and L. Gargano. Community Detection via Semi-Synchronous Label Propagation Algorithms. *ArXiv e-prints*, 1103.4550, March 2011.

[408] Adrian Corduneanu and Tommi Jaakkola. Distributed information regularization on graphs. In *NIPS2004*, pages 49–56, 2004.

[409] Bernat Corominas and Ricard V. Solé. Network topology and self-consistency in language games. *Journal of Theoretical Biology*, 24(2):438–441, July 2006.

[410] Bernat Corominas-Murtra. Network statistics on early english syntax: Structural criteria. *ArXiv e-prints*, 704:1–28, April 2007.

[411] Gianna M. Del Corso, Antonio Gulli, and Francesco Romani. Fast PageRank computation via a sparse linear system (extended abstract). In *FOCS-WS2004A*, pages 118–130, 2004.

[412] Corinna Cortes and Mehryar Mohri. On transductive regression. In *NIPS2006*, 2006.

[413] Jason Cory Brunson, Steve Fassino, Antonio McInnes, Monisha Narayan, Brianna Richardson, Christopher Franck, Patrick Ion, and Reinhard Laubenbacher. Evolutionary Events in a Mathematical Sciences Research Collaboration Network. *ArXiv 1203.5158*, March 2012.

[414] M. Coscia. Competition and Success in the Meme Pool: a Case Study on Quickmeme.com. *ArXiv e-prints*, April 2013.

[415] Rodrigo Costas and María Bordons. The h-index: Advantages, limitations and its relation with other bibliometric indicators at the micro level. *Journal of Informetrics*, 1(3):193–203, July 2007.

[416] Viv Cothey. Web-crawling reliability. *JASIST*, 55(14):1228–1238, December 2004.

[417] Carlos Cotta, Antonio M. Mora, Cecilia Merelo-Molina, and Juan J. Merelo. FIFA World Cup 2010: A Network Analysis of the Champion Team Play. *ArXiv e-prints*, August 2011.

[418] Timothee Cour, Ben Sapp, and Ben Taskar. Learning from partial labels. *"Journal of Machine Learning Research"*, July 2011.

[419] Timothee Cour, Praveen Srinivasan, and Jianbo Shi. Balanced graph matching. In *NIPS2006*, 2006.

[420] Simon Courtenage and Steven Williams. Finding relevant Web pages through equivalent hyperlinks. In *WWW-WS2004A*, 2004.

[421] Jennifer Couzin. Sociology: Survey finds citations growing narrower as journals move online. *Science*, 321(5887), July 2008.

[422] J. Theodore Cox and Edwin A. Perkins. Rescaled Lotka-Volterra models converge to super-Brownian motion. *Annals of Probability*, 33(3):904–947, 2005.

[423] Iain D. Craig, Andrew M. Plume, Marie E. McVeigh, James Pringle, and Mayur Amin. Do open access articles have greater citation impact?: A critical review of the literature. *Journal of Informetrics*, 1(3):239–248, July 2007.

[424] David J. Crandall, Lars Backstrom, Dan Cosley, Siddharth Suri, Daniel Huttenlocher, and Jon Kleinberg. Inferring social ties from geographic coincidences. *Proceedings of the National Academy of Sciences*, 107(52):22436–22441, 2010.

[425] Riley Crane and Didier Sornette. Robust dynamic classes revealed by measuring the response function of a social system. *Proceedings of the National Academy of Sciences*, 105(41):15649–15653, 2008.

[426] Nick Craswell, David Hawking, and Stephen E. Robertson. Effective site finding using link anchor information. In *SIGIR2001*, pages 250–257, 2001.

[427] Nick Craswell and Martin Szummer. Random walks on the click graph. In *SIGIR '07: Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval*, pages 239–246, New York, NY, USA, 2007. ACM.

[428] Mark Craven. Using statistical and relational methods to characterize hyperlink paths. In *AAAI-FS1998A*, pages 14–20, 1998.

[429] G. Creamer and S. Stolfo. A link mining algorithm for earnings forecast using boosting. In *Proceedings of LINKKDD 2007*. ACM, August 2007.

[430] Pascal Crépey, Fabián P. Alvarez, and Marc Barthélemy. Epidemic variability in complex networks. *PRE*, 73(4), 2006.

[431] Fabio Crestani and Puay Leng Lee. Searching the Web by constrained spreading activation. *IPM*, 36(4):585–605, July 1, 2000.

[432] Nuno Crokidakis. Effects of mass media on opinion spreading in the Sznajd sociophysics model. *ArXiv 1111.5750*, November 2011.

[433] Blaise Cronin and Lokman Meho. Using the h-index to rank influential information scientists. *JASIST*, 57(9):1275–1278, July 2006.

[434] Blaise Cronin, Herbert W. Snyder, Howard Rosenbaum, Anna Martinson, and Ewa Callahan. Invoked on the Web. *JASIS*, 49(14):1319–1328, 1998.

[435] Fermín L. Cruz, Carlos G. Vallejo, Fernando Enriquez, and José A. Troyano. Polarityrank: Finding an equilibrium between followers and contraries in a network. *Inf. Process. Manage.*, March 2012.

[436] Montse Cuadros and German Rigau. KnowNet: Building a large net of knowledge from the web. In *Proceedings of the 22nd International Conference on Computational Linguistics (Coling 2008)*, pages 161–168, Manchester, UK, August 2008. Coling 2008 Organizing Committee.

[437] Mihai Cucuringu, Vincent D. Blondel, and Paul Van Dooren. Extracting spatial information from networks with low-order eigenvectors. *ArXiv 1111.0920*, November 2011.

[438] Hang Cui, Ji-Rong Wen, Jian-Yun Nie, and Wei-Ying Ma. Probabilistic query expansion using query logs. In *WWW2002*, pages 325–332, 2002.

[439] Marco Cuturi, Kenji Fukumizu, and Jean-Philippe Vert. Semigroup kernels on measures. *JMLR*, 6:1169–1198, July 2005.

[440] Dragos Cvetcović, M. Doob, and H. Sachs. *Spectra of Graphs*. Cambridge University Press, Cambridge, 1979.

[441] Luciano da F. Costa, Osvaldo N. Oliveira Jr, Gonzalo Travieso, Francisco A. Rodrigues, Paulino R. Villas Boas, Lucas Antiqueira, Matheus P. Viana, and Luis E. C. da Rocha. Analyzing and modeling real-world phenomena with complex networks: A survey of applications. *ArXiv e-prints*, 0711(3199), 2007.

[442] Luciano da F. Costa, Francisco A. Rodrigues, Gonzalo Travieso, and Paulino R. Villas Boas. Characterization of complex networks: A survey of measurements. *Advances In Physics*, 56, 2007.

[443] Dary J. Daley and Joe M. Gani. *Epidemic Modeling*. Cambridge University Press, Cambridge, UK, 1999.

[444] Luca Dall'Asta, Andrea Baronchelli, Alain Barrat, and Vittorio Loreto. Agreement dynamics on small-world networks. *Europhysics Letters*, 73:969, 2006.

[445] Czesław Daniłowicz and Jarosław Baliński. Document ranking based upon Markov chains. *IPM*, 37(4):623–637, July 2001.

[446] Leon Danon, Albert Díaz-Guilera, Jordi Duch, and Alex Arenas. Comparing community structure identification. *Journal of Statistical Mechanics: Theory and Experiment*, 2005(09):P09008+, September 2005.

[447] Dipanjan Das and Slav Petrov. Unsupervised part-of-speech tagging with bilingual graph-based projections. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies-Volume 1*, pages 600–609. Association for Computational Linguistics, 2011.

[448] Gautam Das, Nick Koudas, Manos Papagelis, and Sushruth Puttaswamy. Efficient sampling of information in social networks. In *Proceedings of CIKM 2008 Workshop on Search in Social Media (SSM 2008)*, Napa Valley, California, 2008.

[449] Fernando A. Das-Never, Edward A. Fox, and Xiaoyan Yu. Connecting topics in document collections with stepping stones and pathways. In *CIKM2005*, pages 91–98, 2005.

[450] Anirban Dasgupta, John E. Hopcroft, and Frank McSherry. Spectral analysis of random graphs with skewed degree distributions. In *FOCS2004*, pages 602–610, 2004.

[451] B. DasGupta and D. Desai. On the Complexity of Newman's Community Finding Approach for Biological and Social Networks. *ArXiv e-prints*, 1102.0969, February 2011.

[452] Hal Daumé III and Eric Brill. Web search intent induction via automatic query reformulation. In *HLT/NAACL2004*, 2004.

[453] J. Davidsen, H. Ebel, and Stefan Bornholdt. Emergence of a small world from local interactions: Modeling acquaintance networks. *PRL*, 88:128701, March 8, 2001.

[454] Jason V. Davis and Inderjit S. Dhillon. Estimating the global PageRank of Web communities. In *KDD2006*, pages 116–125, 2006.

[455] Brian D. Davison. Recognizing nepotistic links on the Web. In *AAAI-WS2000A*, pages 23–28, 2000.

[456] Brian D. Davison. Topical locality in the Web: Experiments and observations. In *SIGIR2000*, pages 272–279, 2000.

[457] Brian D. Davison. Toward a unification of text and link analysis. In *SIGIR2003*, pages 367–368, 2003.

[458] Brian D. Davison. Unifying text and link analysis. In *IJCAI-WS2003A*, 2003.

[459] Jeffrey Davitz, Jiye Yu, Sugato Basu, David Gutelius, and Alexandra Harris. ilink: search and routing in social networks. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 931–940, New York, NY, USA, 2007. ACM.

[460] Henrique F de Arruda, Luciano da F Costa, and Diego R Amancio. Topic segmentation via community detection in complex networks. *arXiv preprint arXiv:1512.01384*, 2015.

[461] Henrique F de Arruda, Filipi N Silva, Vanessa Q Marinho, Diego R Amancio, and Luciano da F Costa. Mesoscopic representation of texts as complex networks. *arXiv preprint arXiv:1606.09636*, 2016.

[462] M. De Domenico, A. Lima, P. Mougel, and M. Musolesi. The Anatomy of a Scientific Gossip. *ArXiv e-prints*, January 2013.

[463] Adriano de Jesus Holanda, Ivan Torres Pisa, Osame Kinouchi, Alexandre Souto Martinez, and Evandro Eduardo Seron Ruiz. Thesaurus as a complex network. *Physica A*, 344:530–536, 2004.

[464] Erika F. de Lima and Jan O. Pedersen. Phrase recognition and expansion for short, precision-biased queries based on a query log. In *SIGIR1999*, pages 145–152, 1999.

[465] Shou de Lin and Hans Chalupsky. Issues of verification for unsupervised discovery systems. In *KDD-WS2004A*, 2004.

[466] Pedro O.S. Vaz de Melo, Virgilio A.F. Almeida, and Antonio A.F. Loureiro. Can complex network metrics predict the behavior of NBA teams? In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 695–703, New York, NY, USA, 2008. ACM.

[467] M. Argollo de Menezes, Cristian F. Moukarzel, and T. J. P. Penna. First-order transition in small-world networks. *Europhysics Letters*, 50(5):574–579, June 1, 2000.

[468] P. De Meo, E. Ferrara, G. Fiumara, and A. Provetti. Generalized Louvain Method for Community Detection in Large Networks. *ArXiv e-prints*, August 2011.

[469] P. De Meo, E. Ferrara, G. Fiumara, and A. Ricciardello. A Novel Measure of Edge Centrality in Social Networks. *ArXiv e-prints*, March 2013.

[470] Alessandro P. S. de Moura, Ying-Cheng Lai, and Adilson E. Motter. Signatures of small-world and scale-free properties in large computer programs. *American Physical Society*, 68(1):017102–1–017102–4, July 2003.

[471] Derek J. de Solla Price. Networks of scientific papers. *Science*, 149(3683):510–515, July 30, 1965.

[472] Derek J. de Solla Price. Networks of scientific papers. *Science*, 149(3683):510–515, July 30, 1965.

[473] Derek J. de Solla Price. A general theory of bibliometric and other cumulative advantage processes. *JASIS*, 27:292–306, September-October 1976.

[474] Jeffrey Dean and Monika R. Henzinger. Finding related pages in the World Wide Web. *CN*, 31(11–16):1467–1479, 1999.

[475] Scott C. Deerwester, Susan T. Dumais, Thomas K. Landauer, George W. Furnas, and Richard A. Harshman. Indexing by latent semantic analysis. *JASIS*, 41(6):391–407, September 1990.

[476] François Denis, Anne Laurent, Rémi Gilleron, and Marc Tommasi. Text classification and co-training from positive and unlabeled examples. In *ICML-WS2003B*, 2003.

[477] Madhav Desai and Hariharan Narayanan. Damped random walks and the characteristic polynomial of the weighted Laplacian on a graph. Technical Report math/0506460, Arxiv.org, June 22, 2005.

[478] Inderjit Dhillon, Yuqiang Guan, and Brian Kulis. A fast kernel-based multilevel algorithm for graph clustering. In *KDD2005*, pages 629–634, 2005.

[479] Inderjit Dhillon, Subramanyam Mallela, and Dharmendra Modha. Information-theoretic co-clustering. In *KDD2003*, pages 89–98, 2003.

[480] Inderjit S. Dhillon. Co-clustering documents and words using bipartite spectral graph partitioning. In *KDD2001*, pages 269–274, 2001.

[481] Inderjit S. Dhillon, James Fan, and Yuqiang Guan. Efficient clustering of very large document collections. In R. Grossman, G. Kamath, and R. Naburu, editors, *Data Mining for Scientific and Engineering Applications*. Kluwer Academic Publishers, 2001.

[482] Inderjit S. Dhillon, Yuqiang Guan, and Brian Kulis. Kernel k-means: Spectral clustering and normalized cuts. In *KDD2004*, pages 551–556, 2004.

[483] Inderjit S. Dhillon, Subramanyam Mallela, and Rahul Kumar. Enhanced word clustering for hierarchical text classification. In *KDD2002*, pages 191–200, 2002.

[484] Inderjit S. Dhillon and Dharmendra S. Modha. Concept decompositions for large sparse text data using clustering. *ML*, 42(1/2):143–175, 2001.

[485] Paramveer Dhillon, Jordan Rodu, Dean Foster, and Lyle Ungar. Two step cca: A new spectral method for estimating vector models of words. abs/1206.6403, 2012.

[486] Devanshu Dhyani, Wee Keong Ng, and Sourav S. Bhowmick. A survey of Web metrics. *CSUR*, 34(4):469–503, 2002.

[487] Fernando Diaz. Regularizing query-based retrieval scores. *Inf. Retr.*, 10(6):531–562, 2007.

[488] Reinhard Diestel. *Graph Theory*. Springer-Verlag, 2005.

[489] Laura Dietz, Steffen Bickel, and Tobias Scheffer. Unsupervised prediction of citation influences. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[490] Michelangelo Diligenti, Frans Coetzee, Steve Lawrence, C. Lee Giles, and Marco Gori. Focused crawling using context graphs. In *VLDB2000*, pages 527–534, 2000.

[491] Stephen Dill, Ravi Kumar, Kevin S. McCurley, Sridhar Rajagopalan, D. Sivakumar, and Andrew Tomkins. Self-similarity in the Web. *ACM-TOIT*, 2(3):205–223, August 2002.

[492] Alexandros G. Dimakis, Anand D. Sarwate, and Martin J. Wainwright. Geographic gossip: Efficient aggregation for sensor networks. Technical Report cs.IT/0602071, Arxiv.org, 2006.

[493] Chris Ding. Spectral clustering. In *International Conference on Machine Learning*, 2004.

[494] Chris H. Q. Ding. A similarity-based probability model for latent semantic indexing. In *SIGIR1999*, pages 58–65, 1999.

[495] Chris H. Q. Ding. Data clustering: Principal components, hopfield, and self-aggregation networks. In *IJCAI2003*, pages 479–484, 2003.

[496] Chris H. Q. Ding. A probabilistic model for Latent Semantic Indexing. *JASIST*, 56(6):597–608, April 2005.

[497] Chris H. Q. Ding and Xiaofeng He. Linearized cluster assignment via spectral ordering. In *ICML2004*, 2004.

[498] Chris H. Q. Ding, Xiaofeng He, Parry Husbands, Hongyuan Zha, and Horst Simon. Link analysis: Hubs and authorities on the World Wide Web. Technical Report 47847, LBNL, May 2001.

[499] Chris H. Q. Ding, Xiaofeng He, Parry Husbands, Hongyuan Zha, and Horst D. Simon. PageRank, HITS and a unified framework for link analysis. In *SIGIR2002*, pages 353–354, 2002.

[500] Ying Ding, François Scharffe, Andreas Harth, and Adrian Hogan. AuthorRank: Ranking improvement for the Web. In *Proceedings of the 2006 International Conference on Semantic Web and Web Services (SWWS '06)*, 2006.

[501] Ying Ding, Guo Zhang, Tamy Chambers, Min Song, Xiaolong Wang, and Chengxiang Zhai. Content-based citation analysis: The next generation of citation analysis. *JASIST*, 65(9):1820–1833, 2014.

[502] Peter Sheridan Dodds, Roby Muhamad, and Duncan J. Watts. An experimental study of search in global social networks. *Science*, 301(5634):827–829, August 8, 2003.

[503] Peter Sheridan Dodds, Roby Muhamad, and Duncan J. Watts. An experimental study of search in global social networks: Supplementary online material. *Science*, 301(5634):827–829, August 8, 2003.

[504] Peter Sheridan Dodds, Duncan J. Watts, and Charles F. Sabel. Information exchange and the robustness of organizational networks. *PNAS*, 100(21):12516–12521, October 14, 2003.

[505] W. Dolfsma and L. Leydesdorff. Innovation Systems as Patent Networks: The Netherlands, India and Nanotech. *ArXiv e-prints*, August 2011.

[506] B. Dom, I. Eiron, A. Cozzi, and Y. Zhang. Graph based ranking algorithm for email expertise analysis. In *Proceedings of the Eighth ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (DMKD '03)*, 2003.

[507] Sándor Dominich and Adrienn Skrop. PageRank and interaction information retrieval. *JASIST*, 56(1):63–69, January 1, 2005.

[508] S. N. Dorogovtsev and J. F. F. Mendes. Language as an evolving word web. *Proceedings of The Royal Society of London. Series B, Biological Sciences*, 268(1485):2603–2606, December 2001.

[509] Sergei N. Dorogovtsev, Alexander V. Goltsev, José F. F. Mendes, and Alexander N. Samukhin. Spectral analysis of random networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, Lecture Notes in Physics - Volume 650, pages 35–50. Springer Berlin/Heidelberg, 2004.

[510] Sergei N. Dorogovtsev and José F. F. Mendes. The shortest path to complex networks. *World Scientific*, 1, 2004.

[511] Sergey N. Dorogovtsev, A. V. Goltsev, and José Fernando F. Mendes. Ising model on networks with an arbitrary distribution of connections. *PRE*, 66:016104, July 8, 2002.

[512] Sergey N. Dorogovtsev, Alexander V. Goltsev, and José F. F. Mendes. Critical phenomena in complex networks. *ArXiv e-prints*, 0705(0010), 2007.

[513] Sergey N. Dorogovtsev and José Fernando F. Mendes. Evolution of networks with aging of sites. *PRE*, 62(2):1842–1845, August 2000.

[514] Sergey N. Dorogovtsev and José Fernando F. Mendes. Exactly solvable small-world networks. *Europhysics Letters*, 50(1):1–7, April 2000.

[515] Sergey N. Dorogovtsev and José Fernando F. Mendes. Scaling behaviour of developing and decaying networks. *Europhysics Letters*, 52(1):33–39, October 2000.

[516] Sergey N. Dorogovtsev and José Fernando F. Mendes. Effect of the accelerated growth of communications networks on their structure. *PRE*, 63(2):025101, February 2001.

[517] Sergey N. Dorogovtsev and José Fernando F. Mendes. Language as an evolving word Web. *Proceedings of the Royal Society of London B*, 268(1485):2603–2606, December 22, 2001.

[518] Sergey N. Dorogovtsev and José Fernando F. Mendes. Scaling properties of scale-free evolving networks: Continuum approach. *PRE*, 63(5):056125, May 2001.

[519] Sergey N. Dorogovtsev and José Fernando F. Mendes. Evolution of networks. *Advances in Physics*, 51(4):1079–1187, June 1, 2002.

[520] Sergey N. Dorogovtsev, José Fernando F. Mendes, and João Gama Oliveira. Frequency of occurrence of numbers in the World Wide Web. Technical Report physics/0504185, Arxiv.org, April 29, 2005.

[521] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Growing networks with heritable connectivity of nodes. Technical Report cond-mat/0011077, Arxiv.org, 2000.

[522] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Structure of growing networks with preferential linking. *PRL*, 85(21):4633–4636, November 20, 2000.

[523] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. WWW and internet models from 1955 till our days and the "popularity is attractive" principle. Technical Report cond-mat/0009090, Arxiv.org, 2000.

[524] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Generic scale of 'scale-free' networks. *PRE*, 63(6):062101, June 2001.

[525] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Giant strongly connected component of directed networks. *PRE*, 64(2):025101, August 2001.

[526] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Modern architecture of random graphs: Constructions and correlations. Technical Report cond-mat/0206467, Arxiv.org, 2002.

[527] Sergey N. Dorogovtsev, José Fernando F. Mendes, and A. N. Samukhin. Principles of statistical mechanics of random networks. Technical Report cond-mat/0204111, Arxiv.org, 2002.

[528] John Doyle and Jean M. Carlson. Power laws, highly optimized tolerance, and generalized source coding. *Phys Rev Lett*, 84(24):5656–5659, June 2000.

[529] John C. Doyle, David L. Alderson, Lun Li, Steven Low, Matthew Roughan, Stanislav Shalunov, Reiko Tanaka, and Walter Willinger. The "robust yet fragile" nature of the Internet. *PNAS*, 102(41):14497–14502, October 11, 2005.

[530] Peter G. Doyle and J. Laurie Snell. Random walks and electric networks. Technical Report math.PR/0001057, Arxiv.org, 1984.

[531] Anton Dries and Siegfried Nijssen. Mining Patterns in Networks using Homomorphism. *ArXiv 1110.3225*, October 2011.

[532] Kurt Driessens, Peter Reutemann, Bernhard Pfahringer, and Claire Leschi. Using weighted nearest neighbor to benefit from unlabeled data. In Wee Keong Ng, Masaru Kitsuregawa, Jianzhong Li, and Kuiyu Chang, editors, *Proceedings of the Tenth Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining (PAKDD '06)*, volume 3918 of *Lecture Notes in Computer Science*, pages 60–69, 2006.

[533] Petros Drineas, Alan Frieze, Ravi Kannan, Santosh Vempala, and V. Vinay. Clustering in large graphs and matrices. In *Proceedings of the Eleventh Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '99)*, 1999.

[534] Petros Drineas, Alan M. Frieze, Ravi Kannan, Santosh Vempala, and V. Vinay. Clustering large graphs via the singular value decomposition. *ML*, 56(1-3):9–33, July 2004.

[535] Raissa M. D'Souza, Christian Borgs, Jennifer T. Chayes, Noam Berger, and Robert D. Kleinberg. Emergence of tempered preferential attachment from optimization. *PNAS*, 104(15):6112–6117, April 10, 2007.

[536] Ted Dunning. Finding structure in text, genome and other symbolic sequences. *CoRR*, abs/1207.1847, 2012.

[537] Georges Dupret. Latent concepts and the number orthogonal factors in latent semantic analysis. In *SIGIR2003*, pages 221–226, 2003.

[538] Cynthia Dwork, Ravi Kumar, Moni Naor, and D. Sivakumar. Rank aggregation methods for the Web. In *WWW2001*, pages 613–622, 2001.

[539] Marc Dymetman, Guillaume Bouchard, and Simon Carter. The os* algorithm: a joint approach to exact optimization and sampling. *CoRR*, abs/1207.0742, 2012.

[540] Weinan E, Tiejun Li, and Eric Vanden-Eijnden. Optimal partition and effective dynamics of complex networks. *Proc Natl Acad Sci U S A*, February 2008.

[541] Nathan Eagle, Alex (Sandy) Pentland, and David Lazer. Inferring friendship network structure by using mobile phone data. *Proceedings of the National Academy of Sciences*, 106(36):15274–15278, 2009.

[542] Holger Ebel, Lutz-Ingo Mielsch, and Stefan Bornholdt. Scale free topology of e-mail networks. *PRE*, 66(3):035103, September 30, 2002.

[543] Jean-Pierre Eckmann and Elisha Moses. Curvature of co-links uncovers hidden thematic layers in the World Wide Web. Technical Report cond-mat/0110338, Arxiv.org, 2001.

[544] Miles Efron. The liberal media and right-wing conspiracies: Using cocitation information to estimate political orientation in Web documents. In *CIKM2004*, pages 248–249, 2004.

[545] L. Egghe. On the law of Zipf-Mandelbrot for multi-word phrases. *JASIS*, 50(3):233–241, 1999.

[546] L. Egghe. The power of power laws and an interpretation of Lotkaian infometric systems as self-similar fractals. *JASIST*, 57(7):669–675, May 2005.

[547] L. Egghe. Relations between the continuous and the discrete Lotka power function. *JASIST*, 57(7):664–668, May 2005.

[548] L. Egghe and I.K. Ravichandra Rao. Study of different h-indices for groups of authors. *Journal of the American Society for Information Science and Technology*, 59(8):1276–1281, 2008.

[549] Leo Egghe. Zipfian and Lotkaian continuous concentration theory. *JASIST*, 56(9):935–945, 2005.

[550] Leo Egghe and Ronald Rousseau. *Introduction to Infometrics: Quantitative Methods in Library, Documentation and Information Science.* Elsevier, Amsterdam, 1990.

[551] Leo Egghe and Ronald Rousseau. A measure for the cohesion of weighted networks. *JASIST*, 54(3):193–202, February 1, 2003.

[552] George C. M. A. Ehrhardt, Matteo Marsili, and Fernando Vega-Redondo. Phenomenological models of socio-economic network dynamics. Technical Report physics/0604036, Arxiv.org, April 5, 2006.

[553] Magdalini Eirinaki, Michalis Vazirgiannis, and Dimitris Kapogiannis. Web path recommendations based on page ranking and markov models. In *CIKM-WS2005A*, pages 2–9, 2005.

[554] Nadav Eiron and Kevin McCurley. Locality, hierarchy, and bidirectionality in the Web. In *WWW-WS2003A*, 2003.

[555] Nadav Eiron and Kevin S. McCurley. Analysis of anchor text for Web search. In *SIGIR2003*, pages 459–460, 2003.

[556] Nadav Eiron and Kevin S. McCurley. Link structure of hierarchical information networks. In *FOCS-WS2004A*, pages 143–155, 2004.

[557] J. Eisenstein, B. O'Connor, N. A. Smith, and E. P. Xing. Diffusion of Lexical Change in Social Media. *ArXiv e-prints*, October 2012.

[558] Jacob Eisenstein, Duen Horng "Polo" Chau, Aniket Kittur, and Eric P. Xing. TopicViz: Semantic Navigation of Document Collections. *ArXiv 1110.6200*, October 2011.

[559] Ergin Elmacioglu, Min-Yen Kan, Dongwon Lee, and Yi Zhang. Web based linkage. In *WIDM '07: Proceedings of the 9th annual ACM international workshop on Web information and data management*, pages 121–128, New York, NY, USA, 2007. ACM.

[560] Ergin Elmacioglu and Dongwon Lee. On six degrees of separation in DBLP-DB and more. *ACM SIGMOD Record*, 34(2):33–40, June 2005.

[561] Elena Eneva. Detecting invalid clicks in online paid search listings: A problem description for the use of unlabeled data. In *ICML-WS2003B*, 2003.

[562] Y.-H. Eom, S. Fortunato, and M. Perc. Characterizing and Modeling Citation Dynamics. *PLoS ONE*, 6, September 2011.

[563] Y.-H. Eom, K. M. Frahm, A. Benczúr, and D. L. Shepelyansky. Time evolution of Wikipedia network ranking. *ArXiv e-prints*, April 2013.

[564] David Eppstein and Joseph Wang. A steady state model for power graph laws. Technical Report DM/0204001, Arxiv.org, 2002.

[565] P. Erdös and A. Rényi. On random graphs. *Publicationes Mathematicae Debrecen*, 6:290–297, 1959.

[566] P. Erdös and A. Rényi. On the evolution of random graphs. *Publications of the Mathematical Institute of the Hungarian Academy of Sciences*, 5:17–61, 1960.

[567] Guler Ergun. Human sexual contact network as a bipartite graph. *Physica A*, 308(4):483–488, 2002.

[568] Guler Ergun and G. J. Rodgers. Growing random networks with fitness. *Physica A*, 303(2):261–272, 2002.

[569] Güneş Erkan. Language model-based document clustering using random walks. In *HLT/NAACL2006*, 2006.

[570] Güneş Erkan and Dragomir Radev. LexRank: Graph-based lexical centrality as salience in text summarization. *JAIR*, 22:457–479, December 4, 2004.

[571] Güneş Erkan and Dragomir Radev. The university of Michigan at duc 2004. In *Document Understanding Conference (DUC)*, Boston, Massachusetts, May 2004.

[572] L. Ermann, K. M. Frahm, and D. L. Shepelyansky. Spectral properties of Google matrix of Wikipedia and other networks. *ArXiv e-prints*, December 2012.

[573] Sandra L. Esler and Michael L. Nelson. Evolution of scientific and technical information distribution. *JASIS*, 49(1):82–91, 1998.

[574] E. Estrada. Graph and Network Theory in Physics. A Short Introduction. *ArXiv e-prints*, February 2013.

[575] E. Estrada and M. Benzi. Are Social Networks Really Balanced? *ArXiv e-prints*, June 2014.

[576] Stephen Eubank, V. S. Anil Kumar, Madhav V. Marathe, Aravind Srinivasan, and Nan Wang. Structural and algorithmic aspects of massive social networks. In *Proceedings of the Sixteenth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '04)*, pages 718–727, New Orleans, Louisiana, USA, 2004. Society for Industrial and Applied Mathematics.

[577] Brynn M. Evans and Ed H. Chi. Towards a model of understanding social search. In *Proceedings of JCDL 2008*, 2008.

[578] Eyal Even-Dar and Michael Kearns. A small world threshold for economic network formation. In *NIPS2006*, 2006.

[579] Alex Fabrikant, Elias Koutsoupias, and Christos H. Papadimitriou. Heuristically optimized trade-offs: A new paradigm for power laws in the internet. In Peter Widmayer, Francisco Triguero Ruiz, Rafael Morales

Bueno, Matthew Hennessy, Stephan Eidenbenz, and Ricardo Conejo, editors, *Proceedings of the Twenty-Ninth International Colloquium on Automata, Languages and Programming (ICALP '02)*, volume 2380 of *Lecture Notes in Computer Science*, pages 110–122, Malaga, Spain, July 8-13, 2002. Springer.

[580] Giuseppe Facchetti, Giovanni Iacono, and Claudio Altafini. Computing global structural balance in large-scale signed social networks. *Proceedings of the National Academy of Sciences*, 108(52):20953–20958, 2011.

[581] Ronald Fagin, Anna R. Karlin, Jon Kleinberg, Prabhakar Raghavan, Sridhar Rajagopalan, Ronitt Rubinfeld, Madhu Sudan, and Andrew Tomkins. Random walks with the back button. In *STOC2000*, pages 484–493, 2000.

[582] Ronald Fagin, Ravi Kumar, and D. Sivakumar. Comparing top k lists. *SIAM J. Discret. Math.*, 17(1):134–160, 2003.

[583] Christos Faloutsos. Finding patterns in large graphs. In *NIPS-WS2003A*, 2003.

[584] Christos Faloutsos, Jon Kleinberg, and Caetano Traina Junior. Panel: Research directions for fractals/power-laws/self-similarity researchers. In *KDD-WS2002B*, 2002.

[585] Michalis Faloutsos, Petros Faloutsos, and Christos Faloutsos. On power-law relationships of the internet topology. In *Proceedings of the ACM/SIGCOMM 1999 Conference of the Special Interest Group on Data Communication*, pages 251–262, 1999.

[586] Xiao Fang and Olivia R. Liu Sheng. LinkSelector: A Web mining approach to hyperlink selection for Web portals. *ACM-TOIT*, 4(2):209–237, May 2004.

[587] Illés Farkas, Imre Derényi, Gergely Palla, and Tamás Vicsek. Equilibrium statistical mechanics of network structures. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 163–187. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[588] Illes J. Farkas, Imre Derényi, Albert-László Barabási, and Tamas Vicsek. Spectra of "real-world" graphs: Beyond the semi-circle law. *PRE*, 64(2):026504, August 2001.

[589] Illes J. Farkas, Hawoong Jeong, Tamas Vicsek, Albert-László Barabási, and Zoltan N. Oltvai. The topology of the transcription regulatory network in the yeast, *Saccharomyces cerevisiae*. *Phsycia A*, 318(4):601–612, 2003.

[590] Manaal Faruqui, Ryan McDonald, and Radu Soricut. Morpho-syntactic lexicon generation using graph-based semi-supervised learning. *arXiv preprint arXiv:1512.05030*, 2015.

[591] Guang Feng, Tie-Yan Liu, Ying Wang, Ying Bao, Zhiming Ma, Xu-Dong Zhang, and Wei-Ying Ma. AggregateRank: Bringing order to web sites. In *SIGIR2006*, pages 75–82, 2006.

[592] Fan Fengxiang. An Asymptotic Model for the English Hapax/Vocabulary Ratio. *Computational Linguistics*, pages 631–637, 2010.

[593] Daniel Fenn, Omer Suleman, Janet Efstathiou, and Neil F. Johnson. How does Europe *Make Its Mind Up?* connections, cliques, and compatibility between countries in the Eurovision Song Contest. Technical Report physics/0505071, Arxiv.org, May 10 2005.

[594] Trevor Fenner, Mark Levene, and George Loizou. The stochastic model for the evolution of the Web allowing link deletion. *ACM-TOIT*, 6(2):117–130, May 2006.

[595] Xiaoli Zhang Fern and Carla E. Brodley. Solving cluster ensemble problems by bipartite graph partitioning. In *ICML2004*, 2004.

[596] Mary F. Fernandez, Daniela Florescu, Alon Y. Levy, and Dan Suciu. Reasoning about Web-site structure. In Alexander Borgida, Vinay K. Chaudhri, and Martin Staudt, editors, *Proceedings of the 5th International Workshop on Knowledge Represenation Meets Databases (KRDB '98): Innovative Application Programming and Query Interfaces*, volume 10 of *CEUR Workshop Proceedings*, pages 10.1–10.9, Seattle, Washington, USA, May 31, 1998.

[597] Emilio Ferrara. A large-scale community structure analysis in facebook. *EPJ Data Science*, 1(1):9, 2012.

[598] R. Ferrer-i-Cancho. Hubiness, length, crossings and their relationships in dependency trees. *ArXiv e-prints*, April 2013.

[599] R. Ferrer-i-Cancho and H. Liu. The risks of mixing dependency lengths from sequences of different length. *ArXiv e-prints*, April 2013.

[600] Ramon Ferrer i Cancho. Euclidean distance between syntactically linked words. *PRE*, 70(5), November 30, 2004.

[601] Ramon Ferrer i Cancho. The structure of syntactic dependency networks: insights from recent advances in network theory. In Victor Levickij and Gabriel Altmann, editors, *Problems of quantitative linguistics*, pages 60–75. Ruta, 2005.

[602] Ramon Ferrer-i-Cancho and Carlos Gómez-Rodríguez. Liberating language research from dogmas of the 20th century. *CoRR*, abs/1509.03295, 2015.

[603] Ramon Ferrer-i Cancho and Carlos Gómez-Rodríguez. Liberating language research from dogmas of the 20th century. *arXiv preprint arXiv:1509.03295*, 2015.

[604] Ramon Ferrer i Cancho, Christiaan Janssen, and Ricard V. Solé. The topology of technology graphs: Small world patterns in electronic circuits. *PRE*, 64(4):046119, October 2001.

[605] Ramon Ferrer i Cancho, Oliver Riordan, and Béla Bollobás. The consequences of Zipf's law for syntax and symbolic reference. *Proceedings of the Royal Society of London Series B*, 272:561–565, 2005.

[606] Ramon Ferrer i Cancho and Ricard V. Solé. The small-world of human language. *Proceedings of the Royal Society of London B*, 268(1482):2261–2265, November 7 2001.

[607] Ramon Ferrer i Cancho and Ricard V. Solé. Two regimes in the frequency of words and the origins of complex lexicons: Zipf's law revisited. *Journal of Quantitative Linguistics*, 8(3):165–173, December 2001.

[608] Ramon Ferrer i Cancho and Ricard V. Solé. Least effort and the origins of scaling in human language. *PNAS*, 100(3):788–791, February 4, 2003.

[609] Ramon Ferrer i Cancho, Ricard V. Solé, and Reinhard Köhler. Universality in syntactic dependency networks. Technical Report Santa Fe Working paper 03-06-042, Santa Fe Institute, 2003.

[610] Ramon Ferrer i Cancho, Ricard V. Solé, and Reinhard Köhler. Patterns in syntactic dependency networks. *PRE*, 69(5), May 26, 2004.

[611] D. Fetterly, M. Manasse, M. Najork, and J. Wiener. Crawling towards light: A large scale study of the evolution of Web pages. In *FOCS-WS2002A*, 2002.

[612] Dennis Fetterly, Mark Manasse, Marc Najork, and Janet L. Wiener. A large-scale study of the evolution of Web pages. In *WWW2003*, pages 669–678, 2003.

[613] Filipi Nascimento Silva and Francisco Aparecido Rodrigues and Osvaldo Novais de Oliveira Junior and Luciano da Fontoura Costa. Quantifying the interdisciplinarity of scientific journals and fields. *CoRR*, abs/1203.4807, 2012.

[614] K. Filippova. Multi-Sentence Compression: Finding Shortest Paths in Word Graphs. In *The 23rd International Conference on Computational Linguistics (COLING 2010)*, 2010.

[615] Shai Fine, Ran Gilad-Bachrach, and Eli Shamir. Query by committee, linear separation, and random walks. *Theoretical Computer Science*, 284(1):25–51, 2002.

[616] Simon Fischer and Ingo Wegener. The one-dimensional Ising model: Mutation versus recombination. *Theoretical Computer Science*, 344(2-3):208–225, November 17, 2005.

[617] G. W. Flake, R. E. Tarjan, and K. Tsioutsiouliklis. Minimum cut tree clustering. In *FOCS-WS2002A*, 2002.

[618] Gary Flake, Robert Tarjan, and Kostas Tsioutsiouliklis. Graph clustering techniques based on minimum cut trees. Technical report, 2002.

[619] Gary William Flake, Steve Lawrence, and C. Lee Giles. Efficient identification of Web communities. In *KDD2000*, pages 150–160, 2000.

[620] Gary William Flake, Steve Lawrence, C. Lee Giles, and Frans Coetzee. Self-organization and identification of Web communities. *IEEE-C*, 35(3):66–71, 2002.

[621] Gary William Flake, Robert E. Tarjan, and Kostas Tsioutsiouliklis. Clustering methods based on minimum-cut trees. Technical Report 2002-06, NEC, Princeton, New Jersey, 2002.

[622] Gary William Flake, Robert E. Tarjan, and Kostas Tsioutsiouliklis. Graph clustering and minimum cut trees. *Internet Mathematics*, 1(4):385–408, 2004.

[623] Tiziano Flati and Roberto Navigli. The cqc algorithm: Cycling in graphs to semantically enrich and enhance a bilingual dictionary. *J. Artif. Intell. Res. (JAIR)*, 43:135–171, 2012.

[624] Abraham Flaxman, Alan M. Frieze, and Juan Vera. A geometric preferential attachment model of networks. In *FOCS-WS2004A*, pages 44–55, 2004.

[625] Daniela Florescu, Alon Y. Levy, and Alberto O. Mendelzon. Database techniques for the world-wide Web: A survey. *SIGMOD-R*, 27(3):59–74, 1998.

[626] P. J. Flory. Statistical thermodynamics of random networks. *Proceedings of the Royal Society of London A*, 351(1666):351–378, November 19, 1976.

[627] Dániel Fogaras and Balázs Rácz. Towards scaling fully personalized PageRank. In *FOCS-WS2004A*, pages 105–117, 2004.

[628] Dániel Fogaras and Balázs Rácz. Scaling link-based similarity search. In *WWW2005*, pages 641–650, 2005.

[629] F. Font-Clos and Á. Corral. Reply to "Comment on 'A Scaling law beyond Zipf's law and its relation to Heaps' law"'. *ArXiv e-prints*, May 2014.

[630] S. Fortunato, A. Flammini, F. Menczer, and A. Vespignani. Topical interests and the mitigation of search engine bias. *Proceedings of the National Academy of Sciences*, 103(34):12684–12689, 2006.

[631] S. Fortunato, M. Macy, and S. Redner. Editorial: Statistical Mechanics and Social Sciences. *Journal of Statistical Physics*, February 2013.

[632] Santo Fortunato and Claudio Castellano. Community structure in graphs, 2007.

[633] Santo Fortunato, Alessandro Flammini, and Filippo Menczer. Scale-free network growth by ranking. Technical Report cond-mat/0602081, Arxiv.org, 2006.

[634] Santo Fortunato, Alessandro Flammini, Filippo Menczer, and Alessandro Vespignani. The egalitarian effect of search engines. Technical Report cs.CY/0511005, Arxiv.org, 2005.

[635] Francois Fouss, Alain Pirotte, Jean-Michel Renders, and Marco Saerens. Random-walk computation of similarities between nodes of a graph with application to collaborative recommendation. *IEEE Transactions on knowledge and data engineering*, 19(3):355–369, 2007.

[636] James H Fowler. Connecting the congress: A study of cosponsorship networks. *Political Analysis*, 14(4):456–487, 2006.

[637] James H. Fowler and Dag W. Aksnes. Does self-citation pay? *Scientometrics*, 72(3):427?437, 2007.

[638] James H. Fowler and Nicholas A. Christakis. Cooperative behavior cascades in human social networks. *Proceedings of the National Academy of Sciences*, 107(12):5334–5338, 2010.

[639] James H. Fowler, Christopher T. Dawes, and Nicholas A. Christakis. Model of genetic variation in human social networks. *Proceedings of the National Academy of Sciences*, 106(6):1720–1724, 2009.

[640] James H. Fowler, Jaime E. Settle, and Nicholas A. Christakis. Correlated genotypes in friendship networks. *Proceedings of the National Academy of Sciences*, 108(5):1993–1997, 2011.

[641] Massimo Franceschet. Bibliometrics in a nutshell. *ArXiv.org e-Prints*, Nov 2008.

[642] Massimo Franceschet. The large-scale structure of journal citation networks. *ArXiv 1110.4015*, October 2011.

[643] Massimo Franceschet and Enrico Bozzo. A theory on power in networks. *CoRR*, abs/1510.08332, 2015.

[644] Franceschet, Massimo. The small world of computer science. *CoRR*, 2010.

[645] Tove Faber Frandsen and Ronald Rousseau. Active impact calculated over arbitrary periods. *JASIST*, 56(1):129–139, January 1, 2005.

[646] L. C. Freeman. A set of measures of centrality based on betweenness. *Sociometry*, 40(1):35–41, March 1977.

[647] A. Frees, J. King Gamble, K. Rudinger, E. Bach, M. Friesen, R. Joynt, and S. N. Coppersmith. Power law scaling for the adiabatic algorithm for search engine ranking. *ArXiv e-prints*, November 2012.

[648] A. Freno, M. Keller, G. C. Garriga, and M. Tommasi. Spectral Estimation of Conditional Random Graph Models for Large-Scale Network Data. *ArXiv e-prints*, October 2012.

[649] Brendan J. Frey and Delbert Dueck. Clustering by passing messages between data points. *Science*, 315(5814):972–976, February 16, 2007.

[650] Lisa Friedland and David Jensen. Finding tribes: identifying close-knit individuals from employment patterns. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 290–299, New York, NY, USA, 2007. ACM Press.

[651] Alan Frieze, Flaxman Abraham, and Juan Vera. A geometric preferential attachment model of networks ii. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[652] A. Friggeri, G. Chelius, and E. Fleury. Triangles to Capture Social Cohesion. *ArXiv e-prints*, July 2011.

[653] Mark E. Frisse. Searching for information in a hypertext medical handbook. In *HYPERTEXT '87: Proceeding of the ACM conference on Hypertext*, pages 57–66, Chapel Hill, North Carolina, USA, 1987. ACM.

[654] Andrea Frome, Yoram Singer, and Jitendra Malik. Image retrieval and classification using local distance functions. In *NIPS2006*, 2006.

[655] Daniel Fu, Emilio Remolina, and Jim Eilbert. A cbr approach to asymmetric plan detection. In *KDD-WS2003A*, 2003.

[656] Ko Fujimura. The EigenRumor Algorithm for ranking blogs. In *WWW-WS2005B*, 2005.

[657] Henryk Fuks and Anna T. Lawniczak. Performance of data networks with random links. *Mathematics and Computers in Simulation*, 51(2):101–117, December 22, 1999.

[658] Marco Gaertler. Clustering. In Ulrik Brandes and Thomas Erlebach, editors, *Network Analysis: Methodological Foundations*, pages 178–215. Springer Berlin/Heidelberg, 2005. Lecture Notes in Computer Science - Volume 3418.

[659] L. K. Gallos, F. Q. Potiguar, J. S. Andrade, Jr., and H. A. Makse. IMDB network revisited: unveiling fractal and modular properties from a typical small-world network. *ArXiv e-prints*, May 2013.

[660] Lazaros K. Gallos, Diego Rybski, Fredrik Liljeros, Shlomo Havlin, and Hernan A. Makse. How people interact in evolving online affiliation networks. *ArXiv 1111.5534*, November 2011.

[661] Dehong Gao, Furu Wei, Wenjie Li, Xiaohua Liu, and Ming Zhou. Cross-lingual sentiment lexicon learning with bilingual word graph label propagation. *Computational Linguistics*, 2015.

[662] Jianbo Gao, Jing Hu, Xiang Mao, and Matjaz Perc. Culturomics meets random fractal theory: Insights into long-range correlations of social and natural phenomena over the past two centuries. *ArXiv 1202.5299*, February 2012.

[663] D. García and D. Tanase. Measuring Cultural Dynamics Through the Eurovision Song Contest. *ArXiv e-prints*, January 2013.

[664] Esther Garcia, Francisco Pedroche, and Miguel Romance. On the localization of the personalized pagerank of complex networks. *CoRR*, abs/1206.4855, 2012.

[665] M. Garcia-Herranz, E. Moro Egido, M. Cebrian, N. A. Christakis, and J. H. Fowler. Using Friends as Sensors to Detect Global-Scale Contagious Outbreaks. *ArXiv e-prints*, November 2012.

[666] Eugene Garfield. Citation indexes for science: a new dimension in documentation through association of ideas. *Science*, 122(3159):108–111, 1955.

[667] Eugene Garfield. Citation analysis as a tool in journal evaluation. *Science*, 178(4060):471–479, 1972.

[668] Eugene Garfield. *Citation Indexing: Its Theory and Application in Science*. Wiley, New York, 1979.

[669] Diego Garlaschelli, Sebastian E. Ahnert, Thomas M. A. Fink, and Guido Caldarelli. Temperature in complex networks, 2006.

[670] Ralph Garner. *A computer oriented, graph theoretic analysis of citation index structures*. Drexel University Press, Philadelphia, Pennsylvania, 1967.

[671] Camilo Garrido, Ricardo Mora, and Claudio Gutierrez. Group centrality for semantic networks: a swot analysis featuring random walks. *arXiv preprint arXiv:1601.00139*, 2016.

[672] Thomas Gärtner. Kernel methods for graphs. In Saso Dzeroski and Hendrick Blockeel, editors, *Proceedings of the ACM SIGKDD '05 Fourth Workshop on Multi-Relational Data Mining (MRDM '05)*, Seattle, Washington, USA, August 21, 2005.

[673] Thomas Gärtner, Quoc Viet Le, and Alex J. Smola. A short tour of kernel methods for graphs. Under Preparation, 2006.

[674] M. T. Gastner. *Spatial Distributions: Density-Equalizing Map Projections, Facility Location, and Two-Dimensional Networks*. PhD thesis, University of Michigan, 2005.

[675] Michael T. Gastner and Mark E. J. Newman. Diffusion-based method for producing density-equalizing maps. *PNAS*, 101(20):7499–7504, May 18, 2004.

[676] Michael T. Gastner and Mark E. J. Newman. The spatial structure of networks. *European Physical Journal B*, 49:247–252, 2006.

[677] Michael T. Gastner, C. R. Shalizi, and Mark E. J. Newman. Maps and cartograms of the 2004 US presidential election results. *Advances in Complex Systems*, 8:117–123, 2005.

[678] Daniel Gayo-Avello. A meta-analysis of state-of-the-art electoral prediction from twitter data. *CoRR*, abs/1206.5851, 2012.

[679] Floria Geerts, Heikki Mannila, and Evimaria Terzi. Relational link-based ranking. In *VLDB2004*, pages 552–563, 2004.

[680] Alexander Gelbukh and Grigori Sidorov. Zipf and Heaps Laws' coefficients depend on language. In *CICLING2001*, pages 332–335, 2001.

[681] Fatih Gelgi, Srinivas Vadrevu, and Hasan Davulcu. Improving Web data annotations with spreading activation. In *WISE2005*, pages 95–106, 2005.

[682] M. Gerlach and E. G. Altmann. Stochastic model for the vocabulary growth in natural languages. *ArXiv e-prints*, December 2012.

[683] Martin Gerlach, Francesc Font-Clos, and Eduardo G Altmann. On the similarity of symbol frequency distributions with heavy tails. *arXiv preprint arXiv:1510.00277*, 2015.

[684] Aaron Gerow and Mark T. Keane. Mining the Web for the 'Voice of the Herd' to Track Stock Market Bubbles . *ICJAI-2011*, July 2011.

[685] Lise Getoor and Christopher P. Diehl. Introduction: Special issue on link mining. *SIGKDD-EN*, 7(2):1–2, 2005.

[686] Lise Getoor and Christopher P. Diehl. Link mining: A survey. *SIGKDD-EN*, 7(2):3–12, 2005.

[687] Lise Getoor, Nir Friedman, Daphne Koller, and Benjamin Taskar. Learning probabilistic models of link structure. *JMLR*, 3:679–707, December 2002.

[688] Lise Getoor, Eran Segal, Ben Taskar, and Daphne Koller. Probabilistic models of text and link structure for hypertext classification. In *IJCAI-WS2001B*, 2001.

[689] Virginia Gewin. The new networking nexus. *Nature*, 451:1024–1025, Feburary 20 2008.

[690] Rayid Ghani. Combining labeled and unlabeled data for multiclass text categorization. In *ICML2002*, pages 187–194, 2002.

[691] R. Ghosh and K. Lerman. Leaders and Negotiators: An Influence-based Metric for Rank. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[692] R. Ghosh, K. Lerman, T. Surachawala, K. Voevodski, and S.-H. Teng. Non-Conservative Diffusion and its Application to Social Network Analysis. *ArXiv e-prints*, 1102.4639, February 2011.

[693] Gourab Ghoshal and Mark E. J. Newman. Self-organizing information networks that can be searched in constant time. Technical Report physics/0608057, Arxiv.org, August 4, 2006.

[694] David Gibson, Jon M. Kleinberg, and Prabhakar Raghavan. Inferring Web communities from link topology. In *Proceedings of the Ninth ACM Conference on Hypertext and Hypermedia*, pages 225–234, 1998.

[695] David Gibson, Ravi Kumar, and Andrew Tomkins. Discovering large dense subgraphs in massive graphs. In *VLDB2005*, pages 721–732, 2005.

[696] Anna C. Gilbert and Kirill Levchenko. Compressing network graphs. In *KDD-WS2004A*, 2004.

[697] E. N. Gilbert. Random graphs. *Annals of Mathematical Statistics*, 30(4):1141–1144, 1959.

[698] Nigel Gilbert. A simulation of the structure of academic science. *Sociological Research Online*, 2(2), 1997.

[699] Daniel Gildea and T. Florian Jaeger. Human languages order information efficiently. *CoRR*, abs/1510.02823, 2015.

[700] C. Lee Giles, Kurt D. Bollacker, and Steve Lawrence. CiteSeer: An automatic citation indexing system. In *Proceedings of the Third ACM Conference on Digital Libraries (DL '98)*, pages 89–98, Pittsburgh, Pennsylvania, United States, 1998. ACM.

[701] C. Lee Giles and Isaac G. Councill. Who gets acknowledged: Measuring scientific contributions through automatic acknowledgment indexing. *PNAS*, 101(51):17599–17604, December 21, 2004.

[702] Paul Ginsparg. Scholarly information network. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 313–336. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[703] Aristides Gionis, Alexander Hinneburg, Spiros Papadimitriou, and Panayiotis Tsaparas. Dimension induced clustering. In *KDD2005*, pages 51–60, 2005.

[704] Mark Girolami and Ata Kabán. On an equivalence between PLSI and LDA. In *SIGIR2003*, pages 433–434, 2003.

[705] M. Girvan and M. E. J. Newman. Community structure in social and biological networks. *PNAS*, 99(12):7821–7826, June 2002.

[706] M. Gitterman. Small-world phenomena in physics: The Ising model. *Journal of Physics A: Mathematical and General*, 33(47):8373–8382, December 1, 2000.

[707] M. Gjoka, M. Kurant, C. T. Butts, and A. Markopoulou. A Walk in Facebook: Uniform Sampling of Users in Online Social Networks. *ArXiv e-prints*, May 2009.

[708] C. Gkantsidis, M. Mihail, and E. Zegura. Spectral analysis of internet topologies. In *Proceedings of the Twenty-Second Annual Joint Conference of the IEEE Computer and Communications Societies (Infocom '03)*, 2003.

[709] Malcolm Gladwell. *The Tipping Point: How little Things Can Make a Big DIfference*. Little Brown, 2002.

[710] Natalie Glance, Matthew Hurst, and Takashi Tomokiyo. BlogPulse: Automated trend discovery for Weblogs. In *WWW-WS2004B*, 2004.

[711] D. F. Gleich. PageRank beyond the Web. *ArXiv e-prints*, July 2014.

[712] P. M. Gleiser. How to become a superhero, Aug 2007.

[713] Amir Globerson and Tommi Jaakkola. Approximate inference using planar graph decomposition. In *NIPS2006*, 2006.

[714] Eric J. Glover, Steve Lawrence, Michael D. Gordon, William P. Birmingham, and C. Lee Giles. Web search - your way. *CACM*, 44(12):97–102, 2001.

[715] Eric J. Glover, Kostas Tsioutsiouliklis, Steve Lawrence, David M. Pennock, and Gary W. Flake. Using Web structure for classifying and describing Web pages. In *WWW2002*, pages 562–569, 2002.

[716] Bart Goethals, Siegfried Nijssen, and Mohammed J. Zaki. Open source data mining: Workshop report. *SIGKDD-EN*, 7(2):143–144, 2005.

[717] Dion Hoe-Lian Goh and Peng Kin Ng. Link decay in leading information science journals. *J. Am. Soc. Inf. Sci. Technol.*, 58(1):15–24, 2007.

[718] Kwang-Il Goh, Michael E.Cusick, David Valle, Barton Childs, Marc Vidal, and Albert-Laszlo Barabasi. The human disease network. *PNAS*, 104(21):8685–8690, May 2007.

[719] Kwang-Il Goh, Byungnam Kahng, and Dong-Hee Kim. Spectra and eigenvectors of scale-free networks. *PRE*, 64(5):051903, November 2001.

[720] Kwang-Il Goh, Byungnam Kahng, and Dong-Hee Kim. Fluctuation-driven dynamics of the internet topology. *PRL*, 88(10):108701, March 11, 2002.

[721] Kwang-Il Goh, E. S. Oh, Hawoong Jeong, Byungnam Kahng, and Dong-Hee Kim. Classification of scale-free networks. *PNAS*, 99(20):12583–12588, October 1, 2002.

[722] Kwang-Il Goh, Eulsik Oh, Chul-Min Ghim, Byungnam Kahng, and Doochul Kim. Classes of the shortest pathway structures in scale free networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 105–125. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[723] Jennifer Golbeck and James Hendler. Reputation network analysis for email filtering. In *Proceedings of the First Conference on Email and Anti-Spam*, 2004.

[724] Andrew B. Goldberg and Jerry Zhu. Seeing stars when there aren't many stars: Graph-based semi-supervised learning for sentiment categorization. In *HLT-NAACL 2006 Workshop on Textgraphs: Graph-based Algorithms for Natural Language Processing*, 2006.

[725] S. R. Goldberg, H. Anthony, and T. S. Evans. Modelling Citation Networks. *ArXiv e-prints*, August 2014.

[726] Anna Goldenberg, Jeremy Kubica, and Paul Komarek. A comparison of statistical and machine learning algorithms in the task of link completion. In *KDD-WS2003A*, 2003.

[727] Anna Goldenberg and Andrew Moore. Empirical Bayes screening for link analysis. In *IJCAI-WS2003A*, 2003.

[728] Anna Goldenberg and Andrew Moore. Bayes net graphs to understand coauthorship networks? In *KDD-WS2005A*, 2005.

[729] Sally A. Goldman and Yan Zhou. Enhancing supervised learning with unlabeled data. In *ICML2000*, pages 327–334, 2000.

[730] Michel L. Goldstein, Steven A. Morris, and Gary G. Yen. Problems with fitting to the power-law distribution. Technical Report cond-mat/0402322, Arxiv.org, August 13, 2004.

[731] Sharon Goldwater, Thomas L. Griffiths, and Mark Johnson. "producing power-law distributions and damping word frequencies with two-stage language models". "*Journal of Machine Learning Research*", July 2011.

[732] Sharon Goldwater, Tom Griffiths, and Mark Johnson. Interpolating between types and tokens by estimating power-law generators. In *NIPS2005*, 2005.

[733] Sreenivas Gollapudi, Marc Najork, and Rina Panigrahy. Using bloom filters to speed up hits-like ranking algorithms. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[734] Michael Golosovsky and Sorin Solomon. Runaway events dominate the heavy tail of citation distributions. *CoRR*, abs/1206.1999, 2012.

[735] A. V. Goltsev, Sergey N. Dorogovtsev, and Jos/e Fernando F. Mendes. Critical phenomena in networks. Technical Report cond-mat/0204596, Arxiv.org, 2002.

[736] Benjamin Golub and Matthew O. Jackson. Using selection bias to explain the observed structure of internet diffusions. *Proceedings of the National Academy of Sciences*, 107(24):10833–10836, 2010.

[737] L. Gong, C.-Y. Teng, A. Livne, C. Brunetti, and L. A. Adamic. Coevolution of Network Structure and Content. *ArXiv e-prints*, July 2011.

[738] Neil Zhenqiang Gong, Wenchang Xu, Ling Huang, Prateek Mittal, Emil Stefanov, Vyas Sekar, and Dawn Song. Evolution of social-attribute networks: measurements, modeling, and implications using google+. In *Proceedings of the 2012 ACM conference on Internet measurement conference*, IMC '12, pages 131–144, New York, NY, USA, 2012. ACM.

[739] F. B. Gonzaga, V. C. Barbosa, and G. B. Xexéo. The network structure of mathematical knowledge according to the Wikipedia, MathWorld, and DLMF online libraries. *ArXiv e-prints*, December 2012.

[740] Jesus A. Gonzalez, Lawrence B. Holder, and Diane J. Cook. Graph-based relational concept learning. In *ICML2002*, pages 219–226, 2002.

[741] Marta C. González, César A. Hidalgo, and Albert-László Barabási. Understanding individual human mobility patterns. *Nature*, 453(7196):779–782, June 2008.

[742] Irving J. Good. The population frequencies of species and the estimation of population parameters. *Biometrika*, 40(3-4):237–264, 1953.

[743] Abby A. Goodrum, Katherine W. McCaina, Steve Lawrence, and C. Lee Giles. Scholarly publishing in the Internet age: A citation analysis of computer science literature. *IPM*, 37(6):661–675, 2001.

[744] James Gorman and James Curran. The topology of synonymy and homonymy networks. In *Proceedings of the ACL Workshop on Cognitive Aspects of Computational Language Acquisition*, pages 73–80, Prague, Czech Republic, June 2007. Association for Computational Linguistics.

[745] P. A. Grabowicz, J. J. Ramasco, E. Moro, J. Pujol, and V. M. Eguiluz. Social features of online networks: the strength of weak ties in online social media. *ArXiv e-prints*, July 2011.

[746] I. Grabska-Gradzińska, A. Kulig, J. Kwapień, P. Oświęcimka, and S. Drożdż. Multifractal analysis of sentence lengths in English literary texts. *ArXiv e-prints*, December 2012.

[747] Iwona Grabska-Gradzinska, Andrzej Kulig, Jaroslaw Kwapien, and Stanislaw Drozdz. Complex network analysis of literary and scientific texts. *CoRR*, abs/1205.4582, 2012.

[748] Nancy W. Grady, Daniel R. Tufano, and Raymond E. Flanery, Jr. Immersive visualization for link analysis. In *AAAI-FS1998A*, pages 98–100, 1998.

[749] David Grangier and Samy Bengio. Exploiting hyperlinks to learn a retrieval model. In *NIPS-WS2005B*, pages 12–17, 2005.

[750] David Grangier and Samy Bengio. Inferring document similarity from hyperlinks. In *CIKM2005*, pages 359–360, 2005.

[751] Mark Granovetter. The strength of weak ties. *AJS*, 78(6):1360–1380, 1973.

[752] Mark Granovetter. Threshold models of collective behavior. *AJS*, 83:1420–1443, 1978.

[753] S. Grauwin, D. Hunt, E. Bertin, and P. Jensen. Effective Free Energy for Individual Dynamics. *ArXiv 1108.4855*, August 2011.

[754] Robert M. Gray. *Probability, Random Processes, and Ergodic Properties.* Springer, December 18, 1987. Free revised pdf version.

[755] Gianluigi Greco, Sergio Greco, and Ester Zumpano. Web communities: Models and algorithms. *World Wide Web: Internet and Web Information Systems*, 7(1):59–82, 2004.

[756] Simon J. Greenhill. Levenshtein distances fail to identify language relationships accurately. *"Computational Linguistics"*, December 2011.

[757] Thomas L. Griffiths, Mark Steyvers, and Alana Firl. Google and the mind: Predicting fluency with pagerank. *Psychological Science*, 18:1069–1076, 2007.

[758] Tom Griffiths and Joshua Tenenbaum. Statistics and the Bayesian mind. *Significance*, 3(3):130–133, September 2006.

[759] Daniel Gruhl, R. Guha, David Liben-Nowell, and Andrew Tomkins. Information diffusion through blogspace. In *WWW2004*, pages 491–501, 2004.

[760] Kelvin Gu, John Miller, and Percy Liang. Traversing knowledge graphs in vector space. *CoRR*, abs/1506.01094, 2015.

[761] S. Gualdi, M. Medo, and Y.-C. Zhang. Influence, originality and similarity in directed acyclic graphs. *ArXiv 1108.3691*, August 2011.

[762] S. Gualdi, C. H. Yeung, and Y. Zhang. Tracing the Evolution of Physics on the Backbone of Citation Networks. *ArXiv e-prints*, August 2011.

[763] X. Guardiola, Albert Díaz-Guilera, Conrad J. Perez, Alex Arenas, and Mateu Llas. Modelling diffusion of innovations in a social network. Technical Report cond-mat/0204141, Arxiv.org, 2002.

[764] H. Guclu and Gyorgy Korniss. Extreme fluctuations in small-worlds with relaxational dynamics. *PRE*, 69:065104(R), 2004.

[765] Marco Guerini, Carlo Strapparava, and Gzde zbal. In *ICWSM*, 2011.

[766] R. Guha, Ravi Kumar, D. Sivakumar, and Ravi Sundaram. Unweaving a Web of documents. In *KDD2005*, pages 574–579, 2005.

[767] Jean-Loup Guillaume and Matthieu Latapy. A realistic model for complex networks. Technical Report cond-mat/0307095, Arxiv.org, 2003.

[768] Jean-Loup Guillaume and Matthieu Latapy. Bipartite graphs as models of complex networks. In *Proceedings of the Workshop on Combinatorial and Algorithmic Aspects of Networking (CAAN '04)*, 2004.

[769] A. Guille, H. Hacid, and C. Favre. Predicting the Temporal Dynamics of Information Diffusion in Social Networks. *ArXiv e-prints*, February 2013.

[770] R. Guimerá, L. Danon, A. Díaz-Guilera, F. Giralt, and A. Arenas. Self-similar community structure in organizations. *PRE*, 68:065103, 2003.

[771] A. Gulli and A. Signorini. The indexable web is more than 11.5 billion pages. In *WWW '05: Special interest tracks and posters of the 14th international conference on World Wide Web*, pages 902–903, New York, NY, USA, 2005. ACM.

[772] Jeremy Gunawardena. Statistical mechanics and information theory. Technical Report HPL-BRIMS-96-01, HP Labs, 1996.

[773] Ismail Gunes and Haluk Bingol. Community detection in complex networks using agents. In *Proceedings of the sixth International Conference on Autonomous Agents and Multiagent Systems*, 2007.

[774] Fan Guo, Steve Hanneke, Wenjie Fu, and Eric P. Xing. Recovering temporally rewiring networks: A model-based approach. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[775] Lin Guo, Feng Shao, Chavdar Botev, and Jayavel Shanmugasundaram. XRANK: Ranked keyword search over XML documents. In *SIGMOD2003*, pages 16–27, 2003.

[776] Maxim Gurevich. Search engine sampling via random walks. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, page 6, 2006.

[777] Cathal Gurrin and Alan F. Smeaton. Replicating Web structure in small-scale test collections. *IR*, 7(3-4):239–263, September 2004.

[778] Zoltán Gyöngyi, Hector Garcia-Molina, and Jan Pedersen. Combating Web spam with TrustRank. In *VLDB2004*, pages 576–587, 2004.

[779] Aria D. Haghighi, Andrew Y. Ng, and Christopher D. Manning. Robust textual inference via graph matching. In *HLT '05: Proceedings of the conference on Human Language Technology and Empirical Methods in Natural Language Processing*, pages 387–394, Morristown, NJ, USA, 2005. Association for Computational Linguistics.

[780] Kiana Hajebi, Yasin Abbasi-Yadkori, Hossein Shahbazi, and Hong Zhang. Fast Approximate Nearest-Neighbor Search with k-Nearest Neighbor Graph. *ICJAI-2011*, July 2011.

[781] David Hall, Daniel Jurafsky, and Christopher D. Manning. Studying the history of ideas using topic models. In *Proceedings of the 2008 Conference on Empirical Methods in Natural Language Processing*, pages 363–371, Honolulu, Hawaii, October 2008. Association for Computational Linguistics.

[782] Jin Han and Wei Li. How structure affects power-law behavior. Technical Report cond-mat/0205259, Arxiv.org, 2002.

[783] Mark S. Handcock. Assessing degeneracy in statistical models of social networks. Technical Report Working Paper no. 39, Center for Statistics and the Social Sciences at the University of Washington, December 31, 2003.

[784] Mark S. Handcock and James Holland Jones. Likelihood-based inference for stochastic models of sexual network formation. Technical Report Working Paper no. 29, Center for Statistics and the Social Sciences at the University of Washington, January 2003.

[785] Mark S. Handcock, Adrian E. Raftery, and Jeremy Tantrum. Model-based clustering for social networks. Technical Report Working Paper no. 46, Center for Statistics and the Social Sciences at the University of Washington, April 2005.

[786] Steve Hanneke. An analysis of graph cut size for transductive learning. In *ICML2006*, pages 393–399, 2006.

[787] Steve Hanneke and Eric P. Xing. Discrete temporal models of social networks. In *Proceedings of the Twenty-Third International Conference on Machine Learning Workshop on Statistical Network Analysis*, 2006.

[788] Toke J. Hansen and Michael W. Mahoney. Semi-supervised eigenvectors for large-scale locally-biased learning. *Journal of Machine Learning Research*, 15:3691–3734, 2014.

[789] Sanda Harabagiu, Finley Lacatusu, and Andrew Hickl. Answering complex questions with random walk models. In *SIGIR2006*, pages 220–227, 2006.

[790] Mor Harchol-Balter, Tom Leighton, and Daniel Lewin. Resource discovery in distributed networks. In *Proceedings of the Eighteenth ACM Symposium on Principles of Distributed Computing (PODC '99)*, pages 229–237, Atlanta, Georgia, United States, 1999.

[791] Larry Hardesty. How wise are crowds? *MITnews*, November 2010.

[792] David Harel and Yehuda Koren. Clustering spatial data using random walks. In *KDD2001*, pages 281–286, 2001.

[793] David Harel and Yehuda Koren. On clustering using random walks. In *Proceedings of the 21st Conference on Foundations of Software Technology and Theoretical Computer Science*, FST TCS '01, pages 18–41, London, UK, UK, 2001. Springer-Verlag.

[794] V. Harmandas, Mark Sanderson, and Mark D. Dunlop. Image retrieval by hypertext links. In *SIGIR1997*, pages 296–303, 1997.

[795] Edward Harrington. Large margin PRank. In *NIPS-WS2002A*, 2002.

[796] Tatsunori B. Hashimoto, David Alvarez-Melis, and Tommi S. Jaakkola. Word, graph and manifold embedding from markov processes. *CoRR*, abs/1509.05808, 2015.

[797] Matthew B. Hastings and Balázs Kozma. Critical phenomena in a small world. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 277–297. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[798] Taher Haveliwala and Sepandar Kamvar. The second eigenvalue of the Google matrix. Technical report, Stanford University Technical Report, 2003.

[799] Taher Haveliwala, Sepandar Kamvar, Dan Klein, Chris Manning, and Gene Golub. Computing PageRank using power extrapolation. Technical report, Stanford University, July 16, 2003.

[800] Taher Haveliwala, Sepander Kamvar, and Glen Jeh. An analytical comparison of approaches to personalizing PageRank. Technical Report 2003-35, Stanford University, June 20, 2003.

[801] Taher H. Haveliwala. Topic sensitive PageRank. In *WWW2002*, pages 517–526, 2002.

[802] Taher H. Haveliwala, Aristades Gionis, Dan Klein, and Piotr Indyk. Evaluating strategies for similarity search on the Web. In *WWW2002*, pages 432–442, 2002.

[803] F. Havemann, J. Gläser, M. Heinz, and A. Struck. Identifying Overlapping and Hierarchical Thematic Structures in Networks of Scholarly Papers: A Comparison of Three Approaches. *ArXiv e-prints*, July 2011.

[804] F. Havemann, J. Gläser, M. Heinz, and A. Struck. Evaluating Overlapping Communities with the Conductance of their Boundary Nodes. *ArXiv e-prints*, June 2012.

[805] F. Havemann and A. Scharnhorst. Bibliometric Networks. *ArXiv e-prints*, December 2012.

[806] D. Hawking, N. Craswell, and K. Griffiths. Which search engine is best at finding online services? In *WWW2001*, 2001.

[807] D. Hawking, N. Craswell, P. Thistlewaite, and D. Harman. Results and challenges in Web search evaluation. In *WWW1999*, pages 1321–1330, 1999.

[808] David Hawking, Nick Craswell, Peter Bailey, and Kathleen Griffihs. Measuring search engine quality. *IR*, 4(1):33–59, April 2001.

[809] David Hawking, Ellen Voorhees, Nick Craswell, and Peter Bailey. Overview of the TREC8 Web track. In *TREC1999*, 1999.

[810] B. Hayes. Graph theory in practice: Part I. *American Scientist*, January/February 2000.

[811] B. Hayes. Graph theory in practice: Part II. *American Scientist*, March/April 2000.

[812] Jingrui He, Mingjing Li, Hong-Jiang Zhang, Hanghang Tong, and Changshui Zhang. Manifold-ranking based image retrieval. In *Proceedings of the 13th annual ACM international conference on Multimedia*, pages 862–871, New York, NY, USA, 2005. ACM.

[813] Marti Hearst, Matthew Hurst, and Susan Dumais. What should blog search look like? In *Proceedings of CIKM 2008 Workshop on Search in Social Media (SSM 2008)*, Napa Valley, California, 2008.

[814] Marti A. Hearst. Next generation Web search: Setting our sites. *IEEE-DEB*, 23(3):38–48, September 2000.

[815] M. Hein, J.-Y. Audibert, and U. von Luxburg. Graph laplacians and their convergence on random neighborhood graphs. *JMLR*, 8:1325–1370, 2007.

[816] Dirk Helbing. Accelerating scientific discovery by formulating grand scientific challenges. *CoRR*, abs/1208.3883, 2012.

[817] Eric J. Heller, Lev Kaplan, and Frank Pollmann. Inflationary dynamics for matrix eigenvalue problems. *Proceedings of the National Academy of Sciences*, 105(22):7631–7635, June 2008.

[818] Bruce Hendrickson and Robert Leland. A multi-level algorithm for partitioning graphs. In *Proceedings of the 1995 ACM/IEEE Conference on Supercomputing*, page 28, San Diego, California, USA, 1995. ACM.

[819] Adriano Henney and Giulio Superti-Furga. A network solution. *Nature*, 455:730–731, Oct 2008.

[820] Adam Douglas Henry, Pawe Praat, and Cun-Quan Zhang. Emergence of segregation in evolving social networks. *Proceedings of the National Academy of Sciences*, 108(21):8605–8610, 2011.

[821] Monika Henzinger. Finding near-duplicate web pages: A large-scale evaluation of algorithms. In *SIGIR2006*, pages 284–291, 2006.

[822] Monika Henzinger, Bay-Wei Chang, Brian Milch, and Sergey Brin. Query-free news search. In *WWW2003*, pages 1–10, 2003.

[823] Monika R. Henzinger. Link analysis in Web information retrieval. *IEEE-DEB*, 23(3):3–8, 2000.

[824] Monika R. Henzinger. Algorithmic challenges in Web search engines. *Internet Mathematics*, 1(1):115–126, 2003.

[825] Monika R. Henzinger, Allan Heydon, Michael Mitzenmacher, and Marc Najork. Measuring index quality using random walks on the Web. In *WWW1999*, pages 1291–1303, 1999.

[826] Monika R. Henzinger, Allan Heydon, Michael Mitzenmacher, and Marc Najork. On near-uniform URL sampling. *Journal of Computer Networks*, 33(1–6):295–308, June 2000.

[827] Monika R. Henzinger, Rajeev Motwani, and Craig Silverstein. Challenges in Web search engines. *SIGIR Forum*, 36(2):11–22, 2002.

[828] Mark Herbster and Massimiliano Pontil. Prediction on a graph with a perceptron. In *NIPS2006*, 2006.

[829] Mark Herbster, Massimiliano Pontil, and Lisa Wainer. Online learning over graphs. In *ICML2005*, 2005.

[830] Susan C. Herring, Lois Ann Scheidt, Sabrina Bonus, and Elijah Wright. Bridging the gap: A genre analysis of weblogs. In *Proceedings of the Thirty-Seventh Annual Hawaii International Conference on System Sciences*, page 40101.2, Washington DC, USA, 2004. IEEE Computer Society.

[831] Michael Hersovici, Michal Jacovia, Yoelle S. Maareka, Dan Pelleg, Menachem Shtalhaima, and Sigalit Ura. The shark-search algorithm - an application: Tailored Web site mapping. In *WWW1998*, 1998.

[832] Allan Heydon and Marc Najork. Mercator: A scalable, extensible Web crawler. *W3J*, 2(4):219–229, 1999.

[833] Desmond J. Higham. Clustering, ordering, and random graph models for interaction networks. In *ISMB-WS2004B*, 2004.

[834] R. A. Hill and R. I. M. Dunbar. Social network size in humans. *Human Nature*, 14(1):53–72, 2003.

[835] Russell A. Hill, Alexander R. Bentley, and Robin I. Dunbar. Network scaling reveals consistent fractal pattern in hierarchical mammalian societies. *Biology Letters*, 2008.

[836] Shawndra Hill, Deepak Agarwal, Robert Bell, and Chris Volinsky. Tuning representations of dynamic network data. In *KDD-WS2005A*, 2005.

[837] Melvin J. Hinich and Robert E. Molyneux. Predicting information flows in network traffic. *JASIST*, 54(2):161–168, January 15, 2003.

[838] J. E. Hirsch. Does the h index have predictive power? *Proceedings of the National Academy of Sciences*, November 2007.

[839] Eduard Hoenkamp and Dawei Song. The document as an ergodic Markov chain. In *SIGIR2004*, pages 496–497, 2004.

[840] Peter Hoff. Random effects models for network data. Technical Report Working Paper no. 28, Center for Statistics and the Social Sciences at the University of Washington, January 2003.

[841] Peter Hoff, Adrian E. Raftery, and Mark S. Handcock. Latent space approaches to social network analysis. Technical Report Technical Report no. 399, Center for Statistics and the Social Sciences at the University of Washington, November 5, 2001.

[842] Thomas Hofmann. The cluster-abstraction model: Unsupervised learning of topic hierarchies from text data. In *IJCAI1999*, pages 682–687, 1999.

[843] Thomas Hofmann. Learning the similarity of documents: An information geometric approach to document retrieval and categorization. In *NIPS1999*, pages 914–920, 1999.

[844] Thomas Hofmann. Probabilistic latent semantic analysis. In *Proceedings of the Fifteenth Annual Conference on Uncertainty in Artificial Intelligence (UAI '99)*, pages 289–296, San Francisco, California, USA, 1999. MKP.

[845] Thomas Hofmann. Probabilistic latent semantic indexing. In *SIGIR1999*, pages 50–57, 1999.

[846] Thomas Hofmann. Text categorization with labeled and unlabeled data: A generative model approach. In *NIPS-WS1999A*, 1999.

[847] Thomas Hofmann. Learning probabilistic models of the Web. In *SIGIR2000*, pages 369–371, 2000.

[848] Thomas Hofmann. From latent semantic indexing to language models and back. In *LMIR2001*, pages 42–46, 2001.

[849] Thomas Hofmann. From words to images: SVMs for multiple-instance learning with applications in content-based image retrieval. In *NIPS-WS2001A*, 2001.

[850] Thomas Hofmann. Unsupervised learning by probabilistic latent semantic analysis. *ML*, 42(1-2):177–196, 2001.

[851] Thomas Hofmann. Latent semantic models for collaborative filtering. *ACM-TOIS*, 22(1):89–115, January 2004.

[852] Thomas Hofmann and Jan Puzicha. Unsupervised learning from dyadic data. Technical Report TR-98-042, University of California Berkeley, Berkeley, California, USA, 1998.

[853] Thomas Hofmann and Jan Puzicha. Latent class models for collaborative filtering. In *IJCAI1999*, pages 688–693, 1999.

[854] Thomas Hofmann, Jan Puzicha, and Michael I. Jordan. Learning from dyadic data. In *NIPS1999*, pages 466–472, 1999.

[855] Petter Holme. Optimized local navigation in congested complex networks. In *NIPS-WS2003A*, 2003.

[856] Petter Holme. Scale-free networks with a large- to hypersmall-world transition. *PHYSICA A*, 377:315, 2007.

[857] Petter Holme and Gourab Ghoshal. The diplomat's dilemma: Maximal power for minimal effort in social networks. *ArXiv e-prints*, 0805(3909), 2008.

[858] Petter Holme and Mark E. J. Newman. Nonequilibrium phase transition in the coevolution of networks and opinions. Technical Report physics/0603023, Arxiv.org, March 9, 2006.

[859] Ralf Hölzer, Bradley Malin, and Latanya Sweeney. Email alias detection using social network analysis. In *KDD-WS2005A*, 2005.

[860] John E. Hopcroft, Omar Khan, Brian Kulis, and Bart Selman. Natural communities in large linked networks. In *KDD2003*, pages 541–546, 2003.

[861] D. Frank Hsu and Isak Taksa. Comparing rank and score combination methods for data fusion in information retrieval. *IR*, 8(3):449–480, January 2005.

[862] Haibo Hu and Xiaofan Wang. How people make friends in social networking sites - A microscopic perspective. *ArXiv 1111.5417*, November 2011.

[863] Xiangji Huang, Fuchun Peng, Aijun An, and Dale Schuurmans. Dynamic Web log session identification with statistical language models. *JASIST*, 55(14):1290–1303, December 2004.

[864] Zan Huang, Wingyan Chung, and Hsinchun Chen. A graph model for E-commerce recommender systems. *JASIST*, 55(3):259–274, February 1, 2004.

[865] C. H. Hubbell. An input-output approach to clique identification. *Sociometry*, 28(4):377–399, December 1965.

[866] John C. Huber. Cumulative advantage and success-breeds-success: The value of time pattern analysis. *JASIS*, 49(5):471–476, 1998.

[867] John C. Huber. A new model that generates lotka's law. *JASIST*, 53(3):209–219, 2002.

[868] B.A. Huberman and L.A. Adamic. Information dynamics in the networked world. In E. Ben-Naim, H. Frauenfelder, and Z. Toroczkai, editors, *Complex Networks*, volume 650, pages 371–398. Springer, 2004.

[869] Bernardo A. Huberman. *The Laws of the Web*. MIT Press, Cambridge, MA, 2001.

[870] Bernardo A. Huberman and Lada A. Adamic. Growth dynamics of the World Wide Web. *Nature*, 401(6749), September 9, 1999.

[871] Bernardo A. Huberman, Peter L. Pirolli, James E. Pitkow, and Rajan M. Lukose. Strong Regularities in World Wide Web Surfing. *Science*, 280(5360):95–97, 1998.

[872] Huy Nguyen and Rong Zheng. Influence spread in large-scale social networks - a belief propagation approach. *CoRR*, abs/1204.4491, 2012.

[873] Woochang Hwang, Taehyong Kim, Murali Ramanathan, and Aidong Zhang. Bridging centrality: graph mining from element level to group level. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 336–344, New York, NY, USA, 2008. ACM.

[874] Ken Hyland. Self-citation and self-reference: Credibility and promotion in academic publication. *JASIST*, 54(3):251–259, February 1, 2003.

[875] Ramon Ferrer i Cancho, Alexander Mehler, Olga Pustylnikov, and Albert Díaz-Guilera. Correlations in the organization of large-scale syntactic dependency networks. In *TextGraphs-2: Graph-Based Algorithms for Natural Language Processing*, pages 65–72, Rochester, New York, USA, 2007. Association for Computational Linguistics.

[876] Ian Soboroff Iadh Ounis, Craig Macdonald. On TREC Blog Track. In *International Conference on Weblogs and Social Media*, Seattle, 2008.

[877] J. R. Iglesias and R. M. C. de Almeida. Entropy and equilibrium state of free market models. *ArXiv 1108.5725*, August 2011.

[878] Hidehiko Ino, Mineichi Kudo, and Atsuyoshi Nakamura. Partitioning of Web graphs by community topology. In *WWW2005*, pages 661–669, 2005.

[879] Akihiro Inokuchi, Takashi Washio, and Hiroshi Motoda. Complete mining of frequent patterns from graphs: Mining graph data. *ML*, 50(3):321–354, March 2003.

[880] Kazunari Ishida. Extracting latent weblog communities: A partitioning algorithm for bipartite graphs. In *WWW-WS2005B*, 2005.

[881] Takahiko Ito, Masashi Shimbo, Taku Kudo, and Yuji Matsumoto. Application of kernels to link analysis. In *KDD2005*, pages 586–592, 2005.

[882] Ludmila E. Ivancheva. The non-gaussian nature of bibliometric and scientometric distributions: A new approach to interpretation. *JASIST*, 52(13):1100–1105, 2001.

[883] D. Ivaneyko, J. Ilnytskyi, B. Berche, and Yu. Holovatch. Local and cluster critical dynamics of the 3d random-site Ising model. Technical Report cond-mat/0603521, Arxiv.org, March 20, 2006.

[884] Jeffrey C. Jackson and Karl Wimmer. New results for random walk learning. *Journal of Machine Learning Research*, 15:3635–3666, 2014.

[885] Matthew O. Jackson and Brian W. Rogers. Relating network structure to diffusion properties through stochastic dominance. Unpublished draft paper, October 31, 2006.

[886] A. Jain and P. Pantel. FactRank: Random Walks on a Web of Facts. In *The 23rd International Conference on Computational Linguistics (COLING 2010)*, 2010.

[887] A. K. Jain, M. N. Murty, and P. J. Flynn. Data clustering: A review. *ACM Computing Surveys*, 31(3):264–323, 1999.

[888] Brijnesh J. Jain and Fritz Wysotzki. Central clustering of attributed graphs. *ML*, 56(1-3):169–207, July 2004.

[889] Sanjay Jain and Sandeep Krishna. A model for the emergence of cooperation, interdependence and structure in evolving networks. *PNAS*, 98(2):543–547, January 16, 2001.

[890] Bernard J. Jansen and Amanda Spink. How are we searching the World Wide Web? A comparison of nine search engine transaction logs. *IPM*, 42(1):248–263, January 2006.

[891] Bernard J. Jansen, Amanda Spink, and Jan Pedersen. A temporal comparison of AltaVista web searching. *JASIST*, 56(6):559–570, April 2005.

[892] S. Janson, D. E. Knuth, T. Luczak, and B. Pittel. The birth of the giant component. *Random Structures and Algorithms*, 4(233–358), 1993.

[893] S. Janson, T. Luczak, and A. Rucinski. *Random Graphs*. Wiley, New York, 2000.

[894] Andrzej Jarynowski and Marta Klis. Socio-economic models of divorces in different societies. *CoRR*, abs/1207.2941, 2012.

[895] M. A. Javarone. Gaussian Networks Generated by Random Walks. *Journal of Statistical Physics*, January 2015.

[896] Glen Jeh and Jennifer Widom. SimRank: A measure of structural-context similarity. In *KDD2002*, pages 538–543, 2002.

[897] Pablo Jensen. A network-based prediction of retail stores commercial categories and optimal locations. *PRE*, 74(3), September 2006.

[898] Hawoong Jeong, Zoltan Néda, and Albert-László Barabási. Measuring preferential attachment for evolving networks. Technical Report cond-mat/0104131, Arxiv.org, 2001.

[899] Hawoong Jeong, B. Tombor, Réka Albert, Zoltan N. Oltvai, and Albert-László Barabási. The large-scale organization of metabolic networks. *Nature*, 407(6804):651–653, October 5, 2000.

[900] Hawoong Jeong, Bálint Tombor, Réka Albert, Zoltan N Oltvai, and A-L Barabási. The large-scale organization of metabolic networks. *Nature*, 407(6804):651–654, 2000.

[901] Erik Thorlund Jepsen, Piet Seiden, Peter Ingwersen, Lennart Bjorneborn, and Pia Borlund. Characteristics of scientific Web publications: Preliminary data gathering and analysis. *JASIST*, 55(14):1239–1249, December 2004.

[902] Sune Norhoj Jespersen and Alexander Blumen. Small-world networks: Links with long-tailed distributions. *PRE*, 62(5):6270–6274, November 2000.

[903] Emily M. Jin, Michelle Girvan, and Mark E. J. Newman. Structure of growing social networks. *PRE*, 64(4):046132, October 2001.

[904] R. Jin, V. E. Lee, and H. Hong. Axiomatic Ranking of Network Role Similarity. *ArXiv e-prints*, 1102.3937, February 2011.

[905] Thorsten Joachims. Transductive learning via spectral graph partitioning. In *ICML2003*, pages 290–297, 2003.

[906] Thorsten Joachims, Nello Cristianini, and John Shawe-Taylor. Composite kernels for hypertext categorisation. In *ICML2001*, pages 250–257, 2001.

[907] Thorsten Joachims, Laura A. Granka, Bing Pan, Helene Hembrooke, and Geri Gay. Accurately interpreting clickthrough data as implicit feedback. In *SIGIR2005*, pages 154–161, 2005.

[908] Judy Johnson, Kostas Tsioutsiouliklis, and C. Lee Giles. Evolving strategies for focused Web crawling. In *ICML2003*, pages 298–305, 2003.

[909] Rie Johnson and Tong Zhang. On the effectiveness of laplacian normalization for graph semi-supervised learning. *J. Mach. Learn. Res.*, 8:1489–1517, 2007.

[910] Nebojsa Jojic and Alessandro Perina. Multidimensional counting grids: Inferring word order from disordered bags of words. *ArXiv 1202.3752*, February 2012.

[911] Rosie Jones. Semisupervised learning on small worlds. In *KDD-WS2004A*, 2004.

[912] Rosie Jones and Fernando Diaz. Temporal profiles of queries. *ACM Trans. Inf. Syst.*, 25(3), July 2007.

[913] Rosie Jones, Benjamin Rey, Omid Madani, and Wiley Greiner. Generating query substitutions. In *WWW2006*, pages 387–396, 2006.

[914] Jürgen Jost and M. P. Joy. Evolving networks with distance preferences. Technical Report cond-mat/0202343, Arxiv.org, 2002.

[915] J. Julián Merelo Guervós, Carlos Cotta, and A. M. Mora. 1st International Workshop on Complex Systems in Sports - Proceedings. *ArXiv e-prints*, August 2011.

[916] David Jurgens. Word sense induction by community detection. In *Proceedings of TextGraphs-6: Graph-based Methods for Natural Language Processing*, pages 24–28. Association for Computational Linguistics, 2011.

[917] Byungnam Kahng, Y. Park, and Hawoong Jeong. Robustness of the in-degree exponent for the world wide Web. Technical Report cond-mat/0112358, Arxiv.org, 2001.

[918] Sham M. Kakade, Shai Shalev-Shwartz, and Ambuj Tewari. Regularization techniques for learning with matrices. *JMLR*, 13:1865–1890, 2012.

[919] Tomer Kalisky, Reuven Cohen, Daniel ben Avraham, and Shlomo Havlin. Tomography and stability of complex networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 3–34. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[920] Andreas Kaltenbrunner and David Laniado. There is No Deadline - Time Evolution of Wikipedia Discussions. *ArXiv e-prints 1204.3453*, April 2012.

[921] Frank Kammer and Hanjo Täubig. Connectivity. In Ulrik Brandes and Thomas Erlebach, editors, *Network Analysis: Methodological Foundations*, pages 143–177. Springer Berlin/Heidelberg, 2005. Lecture Notes in Computer Science - Volume 3418.

[922] Jaap Kamps. Web-centric language models. In *CIKM2005*, pages 307–308, 2005.

[923] Sepandar Kamvar and Taher Haveliwala. The condition number of the PageRank problem. Technical Report 2003-36, Stanford University, June 20, 2003.

[924] Sepandar Kamvar, Taher Haveliwala, and Gene Golub. Adaptive methods for the computation of PageRank. Technical Report 2003-26, Stanford University, April 28, 2003.

[925] Sepandar D. Kamvar, Taher H. Haveliwala, Christopher D. Manning, and Gene H. Golub. Exploiting the block structure of the Web for computing PageRank. Technical report, Stanford University, March 2003.

[926] Sepandar D. Kamvar, Dan Klein, and Christopher D. Manning. Interpreting and extending classical agglomerative clustering algorithms using a model-based approach. In *ICML2002*, pages 283–290, 2002.

[927] Sepandar D. Kamvar, Dan Klein, and Christopher D. Manning. Spectral learning. In *IJCAI2003*, pages 561–566, 2003.

[928] Sepandar D. Kamvar, Mario T. Schlosser, and Hector Garcia-Molina. The EigenTrust Algorithm for reputation management in P2P networks. In *WWW2003*, pages 640–651, 2003.

[929] Sepander D. Kamvar, Taher H. Haveliwala, Christopher D. Manning, and Gene H. Golub. Extrapolation methods for accelerating PageRank computations. In *WWW2003*, pages 261–270, 2003.

[930] Vivek Kandiah and Dima L. Shepelyansky. PageRank model of opinion formation on social networks. *ArXiv 1204.3806*, April 2012.

[931] Jeon-Hyung Kang and Kristina Lerman. Leveraging User Diversity to Harvest Knowledge on the Social Web. *ArXiv 1110.4851*, October 2011.

[932] Igor Kanovsky. Web graph clustering based on link correlations. In *Workshop On Algorithms And Models For The Web-Graph (WAW2006)*, page 7, 2006.

[933] Bert Kappen and Joris Mooij. Validity estimates for belief propagation on random graphs. In *NIPS-WS2003A*, 2003.

[934] Zsolt T. Kardkovacs, Domonkos Tikk, and Zoltán Bánsághi. The Ferrety algorithm for the KDD Cup 2005 problem. *SIGKDD-EN*, 7(2):111–116, 2005.

[935] Hillol Kargupta, Kun Liu, Souptik Datta, Jessica Ryan, and Krishnamoorthy Sivakumar. Link analysis, privacy preservation, and random perturbations. In *KDD-WS2003A*, 2003.

[936] Richard M. Karp, Christian Schindelhauer, Scott Shenker, and Berthold Vöcking. Randomized rumor spreading. In *FOCS2000*, pages 565–574, 2000.

[937] Brian Karrer, Elizaveta Levina, and Mark E. J. Newman. Robustness of community structure in networks. *Physical Review E*, 77:046119, 2008.

[938] Marton Karsai, Kimmo Kaski, Albert-László Barabási, and János Kertész. Universal features of correlated bursty behaviour. *ArXiv 1111.7235*, November 2011.

[939] Folgert Karsdorp and Antal Van den Bosch. The structure and evolution of story networks. *Royal Society Open Science*, 3(6):160071, 2016.

[940] Saurabh Kataria, Prasenjit Mitra, Cornelia Caragea, and C. Lee Giles. Context Sensitive Topic Models for Author Influence in Document Networks. *ICJAI-2011*, July 2011.

[941] L. Katz. A new status index derived from sociometric analysis. *Psychometrika*, 18, 1953.

[942] S. A. Kauffman. *At Home in the Universe: The Search for the Laws of Self-Organization and Complexity*. Oxford University Press, Oxford, 1995.

[943] Yiping Ke, James Cheng, and Wilfred Ng. Correlation search in graph databases. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 390–399, New York, NY, USA, 2007. ACM Press.

[944] Michael Kearns, Siddharth Suri, and Nick Montfort. An experimental study of the coloring problem on human subject networks. *Science*, 313(5788):824–827, August 11 2006.

[945] Evelyn Fox Keller. Revisiting "scale-free" networks. *Bioessays*, 27(10):1060–1068, October 2005.

[946] D. Kempe, A. Dobra, and J. Gehrke. Computing aggregate information using gossip. *FOCS*, 2003.

[947] D. Kempe, J. Kleinberg, S. Oren, and A. Slivkins. Selection and Influence in Cultural Dynamics. *ArXiv e-prints*, April 2013.

[948] David Kempe. Epidemic models of communication in networks. In *NIPS-WS2003A*, 2003.

[949] David Kempe, Alin Dobra, and Johannes Gehrke. Gossip-based computation of aggregate information. In *FOCS2003*, pages 482–491, 2003.

[950] David Kempe, Jon Kleinberg, and Alan Demers. Spatial gossip and resource location protocols. In *STOC2001*, pages 163–172, 2001.

[951] David Kempe, Jon Kleinberg, and Éva Tardos. Maximizing the spread of influence through a social network. In *KDD2003*, pages 137–146, 2003.

[952] David Kempe, Jon Kleinberg, and Éva Tardos. Influential nodes in a diffusion model for social networks. In *Proceedings of ICALP 2005*, Lisboa, Portugal, 2005.

[953] David Kempe and Jon M. Kleinberg. Protocols and impossibility results for gossip-based communication mechanisms. In *FOCS2002*, pages 471–480, 2002.

[954] Eben Kenah and James M. Robins. Second look at the spread of epidemics on networks. *Physical Review E*, 76:036113, 2007.

[955] W. O. Kermack and A.G. McKendrick. A contribution to the mathematical theory of epidemics. *Proceedings of the Royal Society of London, Series A*, 115(772):700–721, August 1, 1927.

[956] M. M. Kessler. Bibliographic coupling between scientific papers. *American Documentation*, 14:10–25, 1963.

[957] Nikhil S. Ketkar, Lawrence B. Holder, and Diane J. Cook. Comparison of graph-based and logic-based multi-relational data mining. *SIGKDD-EN*, 7(2):64–71, 2005.

[958] Bernd Kiefer. Redundancy-free island parsing of word graphs. In *IJCAI2005*, pages 1079–1084, 2005.

[959] Peter D. Killworth and H. Russell Bernard. The reversal small-world experiment. *Social Networks*, 1(2):159–192, 1978.

[960] Beom Jun Kim, Chang No Yoon, Seugn Kee Han, and Hawoong Jeong. Path finding strategies in scale-free networks. *PRE*, 65(2):027103, January 23, 2001.

[961] Hyun-Joo Kim, Youngki Lee, In-Mook Kim, and Byungnam Kahng. Scale-free networks in financial correlations. Technical Report cond-mat/0107449, Arxiv.org, 2001.

[962] J. Kim. Note on the Complex Networks and Epidemiology Part I: Complex Networks. *ArXiv e-prints*, February 2013.

[963] J. Kim, P. L. Krapivsky, Byungnam Kahng, and S. Redner. Infinite-order percolation and giant fluctuations in a protein interaction network. Technical Report cond-mat/0203167, Arxiv.org, 2002.

[964] S. Kim and T. Shi. Scalable Spectral Algorithms for Community Detection in Directed Networks. *ArXiv e-prints*, November 2012.

[965] Masahiro Kimura, Kazumi Saito, and Ryohei Nakano. Extracting influential nodes for information diffusion on a social network. In *AAAI 2007*, pages 1371–1376, 2007.

[966] O. Kinouchi, A.S. Martinez, G.F. Lima, G.M. Lourenço, and S. Risau-Gusman. Deterministic walks in random networks: an application to thesaurus graphs. *Physica A*, 315:665–676, 2002.

[967] Osame Kinouchi, Alexandre S. Martinez, Gilson F. Lima, G. M. Lourenco, and Sebastian Risau-Gusman. Deterministic walks in random networks: An application to thesaurus graphs. Technical Report cond-mat/0110217, Arxiv.org, 2001.

[968] David Kirkpatrick. Going deeper than Google. *Fortune*, December 16, 2003.

[969] Richard Klavans and Kevin W. Boyack. Identifying a better measure of relatedness for mapping science. *JASIST*, 57(2):251–263, January 2006.

[970] Dan Klein. *The Unsupervised Learning of Natural Language Structure.* PhD thesis, Stanford University, March 2005.

[971] Jon Kleinberg. The small-world phenomenon: An algorithmic perspective. In *STOC2000*, 2000.

[972] Jon Kleinberg. The Small-World Phenomenon: An Algorithmic Perspective. In *Proceedings of the 32nd ACM Symposium on Theory of Computing*, 2000.

[973] Jon Kleinberg. Small-world phenomena and the dynamics of information. In *NIPS2001*, pages 431–438, 2001.

[974] Jon Kleinberg. An impossibility theorem for clustering. In *NIPS2002*, pages 446–453, 2002.

[975] Jon Kleinberg. Detecting a network failure. *Internet Mathematics*, 1(1):37–56, 2003.

[976] Jon Kleinberg and Steve Lawrence. The structure of the Web. *Science*, 294(5548):1849–1850, 2001.

[977] Jon M. Kleinberg. Authoritative sources in a hyperlinked environment. *JACM*, 46(5):604–632, Septembeer 1999.

[978] Jon M. Kleinberg. Hubs, authorities, and communities. *ACM-CS*, 31(4es):Article No. 5, December 1999.

[979] Jon M. Kleinberg. Navigation in a small world. *Nature*, 406(6798):845, August 24, 2000.

[980] Jon M. Kleinberg, Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, and Andrew S. Tomkins. The Web as a graph: Measurements, models and methods. In *Proceedings of the Fifth International Computing and Combinatorics Conference (COCOON '99)*, 1999.

[981] Jon M. Kleinberg and Éva Tardos. Disjoint paths in densely embedded graphs. In *FOCS1995*, pages 52–61, 1995.

[982] Jon M. Kleinberg and Éva Tardos. Approximation algorithms for classification problems with pairwise relationships: Metric labeling and Markov random fields. In *FOCS1999*, pages 14–23, 1999.

[983] Judith Kleinfeld. Could it be a big world after all? The 'six degrees of separation' myth. *Society*, April 12, 2002.

[984] K. Klemm. Searchability of Central Nodes in Networks. *Journal of Statistical Physics*, February 2013.

[985] Konstantin Klemm and Victor M. Eguíluz. Growing scale-free networks with small-world behavior. *PRE*, 65(5):057102, May 8, 2002.

[986] Konstantin Klemm and Victor M. Eguíluz. Highly clustered scale-free networks. *PRE*, 65(3):036123, March 2002.

[987] P. Klimek and S. Thurner. Triadic closure dynamics explains scaling-exponents for preferential attachment-, degree- and clustering distributions in social multiplex data. *ArXiv e-prints*, January 2013.

[988] P. Klimek, B. Werner, and S. Thurner. The blogosphere as an excitable social medium: Richter's and Omori's Law in media coverage. *ArXiv e-prints*, 1102.2091, February 2011.

[989] A. Klinger and N. A. Salingaros. A Pattern Measure. *ArXiv 1108.5508*, August 2011.

[990] K. Kloster and D. F. Gleich. Heat kernel based community detection. *ArXiv e-prints*, March 2014.

[991] P. Knoth, J. Novotny, and Z. Zdrahal. Automatic generation of inter-passage links based on semantic similarity. In *The 23rd International Conference on Computational Linguistics (COLING 2010)*, 2010.

[992] B. Knuteson. Capitalist Science. *ArXiv e-prints*, 1102.2474, February 2011.

[993] Mei Kobayashi and Koichi Takeda. Information retrieval on the Web. *CSUR*, 32(2):144–173, 2000.

[994] Michael Koenig and Toni Harrell. Lotka's law, Price's urn, and electronic publishing. *JASIS*, 46(5):386–388, June 1995.

[995] Pranam Kolari, Akshay Java, and Tim Finin. Characterizing the Splogosphere. In *WWW-WS2006A*, 2006.

[996] Risi Imre Kondor and John D. Lafferty. Diffusion kernels on graphs and other discrete input spaces. In *ICML2002*, pages 315–322, 2002.

[997] Joseph S. Kong, Nima Sarshar, and Vwani P. Roychowdhury. Experience versus talent shapes the structure of the web. *Proceedings of the National Academy of Sciences*, 105(37):13724–13729, 2008.

[998] Yehuda Koren, Robert Bell, Chris Volinsky, et al. Matrix factorization techniques for recommender systems. *Computer*, 42(8):30–37, 2009.

[999] Yehuda Koren, Stephen C. North, and Chris Volinsky. Measuring and extracting proximity in networks. In *KDD2006*, pages 245–255, 2006.

[1000] K. Koroutchev and E. Korutcheva. Text as statistical mechanics object. *ArXiv e-prints*, Oct 2008.

[1001] K. Koroutchev, J. Shen, E. Koroutcheva, and M. Cebrian. Thermodynamics of Information Retrieval. *ArXiv e-prints*, 0903.2792, March 2009.

[1002] Charles Korte and Stanley Milgram. Acquaintance networks between racial groups: Application of the small world method. *Journal of Personality and Social Psychology*, 15:101–108, 1970.

[1003] Dirk Koschützki, Katharina Anna Lehmann, Leon Peeters, Stefan Richter, Dagmar Tenfelde-Podehl, and Oliver Zlotowski. Centrality indices. In Ulrik Brandes and Thomas Erlebach, editors, *Network Analysis: Methodological Foundations*, pages 16–61. Springer Berlin/Heidelberg, 2005. Lecture Notes in Computer Science - Volume 3418.

[1004] Dirk Koschützki, Katharina Anna Lehmann, Dagmar Tenfelde-Podehl, and Oliver Zlotowski. Advanced centrality concepts. In Ulrik Brandes and Thomas Erlebach, editors, *Network Analysis: Methodological Foundations*, pages 83–111. Springer Berlin/Heidelberg, 2005. Lecture Notes in Computer Science - Volume 3418.

[1005] Serhiy Kosinov and Terry Caelli. Inexact multisubgraph matching using graph eigenspace and clustering models. In *Proceedings of the Joint IAPR International Workshops on SSPR/SPR 2002*, pages 133–142. Springer, 2002.

[1006] Gueorgi Kossinets, Jon Kleinberg, and Duncan Watts. The structure of information pathways in a social communication network. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 435–443, New York, NY, USA, 2008. ACM.

[1007] Gueorgi Kossinets and Duncan J. Watts. Empirical analysis of an evolving social network. *Science*, 311(5757):88–90, January 6 2006.

[1008] K. Kothapalli, S. V. Pemmaraju, and V. Sardeshmukh. On the Analysis of a Label Propagation Algorithm for Community Detection. *ArXiv e-prints*, October 2012.

[1009] Kayvan Kousha and Mike Thelwall. Google scholar citations and google web-url citations: A multi-discipline exploratory analysis. *J. Am. Soc. Inf. Sci. Technol.*, 58(7):1055–1065, 2007.

[1010] L. Kovanen, M. Karsai, K. Kaski, J. Kertész, and J. Saramäki. Temporal motifs in time-dependent networks. *ArXiv e-prints*, July 2011.

[1011] Reiner Kraft, Enes Hastor, and Raymie Stata. TimeLinks: Exploring the link structure of the evolving Web. In *WWW-WS2003A*, 2003.

[1012] Reiner Kraft and Jason Zien. Mining anchor text for query refinement. In *WWW2004*, pages 666–674, 2004.

[1013] P. L. Krapivsky and S. Redner. Organization of growing random networks. *PRE*, 63(6):066123, June 2001.

[1014] P. L. Krapivsky, S. Redner, and F. Leyvraz. Connectivity of growing random networks. *PRL*, 85(21):4629–4632, November 20, 2000.

[1015] P. L. Krapivsky, G. J. Rodgers, and S. Redner. Degree distributions of growing networks. *PRL*, 86(23):5401–5404, June 4, 2001.

[1016] Valdis Krebs. Mapping networks of terrorist cells. *Connections*, 24(3):43–52, 2002.

[1017] Balaji Krishnapuram, David Williams, Ya Xue, Alexander Hartemink, Lawrence Carin, and Mario Figueiredo. On semi-supervised classification. In *NIPS2004*, pages 721–728, 2004.

[1018] Andries Kruger, C. Lee Giles, Frans Coetzee, Eric Glover, Gary Flake, Steve Lawrence, and Cristian Omlin. DEADLINER: Building a new niche search engine. In *CIKM2000*, pages 272–281, 2000.

[1019] Victor V. Kryssanov, Frank J. Rinaldo, Evgeny L. Kuleshov, and Hitoshi Ogawa. Modeling the dynamics of social networks. Technical Report cs.CY/0605101, Arxiv.org, May 24, 2006.

[1020] Andre Krzywicki. Defining statistical ensembles of random graphs. Technical Report cond-mat/0110574, Arxiv.org, 2001.

[1021] Jeremy Kubica, Andrew Moore, David Cohn, and Jeff Schneider. cGraph: A fast graph-based method for link analysis and queries. In *IJCAI-WS2003A*, 2003.

[1022] Jeremy Kubica, Andrew Moore, Jeff Schneider, and Yiming Yang. Stochastic link and group detection. In *AAAI2002*, pages 798–806, 2002.

[1023] Jeremy Kubica, Andrew W. Moore, David Cohn, and Jeff G. Schneider. Finding underlying connections: A fast graph-based method for link analysis and collaboration queries. In *ICML2003*, pages 392–399, 2003.

[1024] Taku Kudo, Eisaku Maeda, and Yuji Matsumoto. An application of boosting to graph classification. In *NIPS2004*, pages 729–736, 2004.

[1025] Brian Kulis, Sugato Basu, Inderjit Dhillon, and Raymond Mooney. Semi-supervised graph clustering: A kernel approach. In *ICML2005*, 2005.

[1026] Rajendra V. Kulkarni, E. Almaas, and David Stroud. Evolutionary dynamics in the Bak-Sneppen model on small-world networks. Technical Report cond-mat/9905066, Arxiv.org, 1999.

[1027] Rajendra V. Kulkarni, E. Almaas, and David Stroud. Exact results and scaling properties of small-world networks. *PRE*, 61(4):4268–4271, April 2000.

[1028] L. Kullmann and Janos Kertész. Preferential growth: Exact solution of the time-dependent distributions. *PRE*, 63(5):051112, May 2001.

[1029] L. Kullmann and Janos Kertész. Preferential growth: Solution and application to modelling stock market. *Physica A*, 299(1):121–126, October 1, 2001.

[1030] L. Kullmann, Janos Kertész, and K. Kaski. Time dependent cross correlations between different stock returns: A directed network of influence. *PRE*, 64(5):057105, November 2001.

[1031] Ravi Kumar, Uma Mahadevan, and D. Sivakumar. A graph-theoretic approach to extract storylines from search results. In *KDD2004*, pages 216–225, 2004.

[1032] Ravi Kumar, Jasmine Novak, Prabhakar Ragahavan, and Andrew Tomkins. On the bursty evolution of Blogspace. In *WWW2003*, pages 568–576, 2003.

[1033] Ravi Kumar, Jasmine Novak, and Andrew Tomkins. Structure and evolution of online social networks. In *KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 611–617, New York, NY, USA, 2006. ACM.

[1034] Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, D. Sivakumar, Andrew Tomkins, and Eli Upfal. Random graph models for the Web graph. In *FOCS2000*, pages 57–65, 2000.

[1035] Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, and Andrew Tomkins. Recommendation systems: A probabilistic analysis. In *FOCS1998*, pages 664–673, 1998.

[1036] Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, and Andrew Tomkins. Trawling the Web for emerging cyber communities. In *WWW1999*, 1999.

[1037] Ravi Kumar, Pradhakar Raghavan, Sridhar Rajagopalan, and Andrew Tomkins. Extracting large-scale knowledge bases from the Web. In *VLDB1999*, pages 639–650, 1999.

[1038] S. Ravi Kumar, Jasmine Novak, Prabhakar Raghavan, and Andrew Tomkins. Structure and evolution of Blogspace. *CACM*, 47(12):35–39, 2004.

[1039] S. Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, D. Sivakumar, Andrew Tomkins, and Eli Upfal. Stochastic models for the Web graph. In *FOCS2000*, pages 57–65, 2000.

[1040] S. Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, D. Sivakumar, Andrew Tomkins, and Eli Upfal. The Web as a graph. In *Proceedings of the Ninteenth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS '00)*, pages 1–10, 2000.

[1041] Krishna Kummamuru, Rohit Lotlikar, Shourya Roy, Karan Singal, and Raghu Krishnapuram. A hierarchical monothetic document clustering algorithm for summarization and browsing search results. In *WWW2004*, pages 658–665, 2004.

[1042] J. Kunegis. Applications of Structural Balance in Signed Social Networks. *ArXiv e-prints*, February 2014.

[1043] Maciej Kurant, Carter T Butts, and Athina Markopoulou. Graph size estimation. Technical Report arXiv:1210.0460, Oct 2012.

[1044] Oren Kurland and Lillian Lee. PageRank without hyperlinks: Structural re-ranking using links induced by language models. In *SIGIR2005*, pages 306–313, 2005.

[1045] Oren Kurland and Lillian Lee. Respect my authority! HITS without hyperlinks, utilizing cluster-based language models. In *SIGIR2006*, pages 83–90, 2006.

[1046] M. J. Kurtz and J. Bollen. Usage Bibliometrics. *Annual Review of Information Science and Technology*, 44:3–64, January 2010.

[1047] John Lafferty and Guy Lebanon. Information diffusion kernels. In *NIPS2002*, pages 375–382, 2002.

[1048] John Lafferty and Guy Lebanon. Diffusion kernels on statistical manifolds. *JMLR*, 6:129–163, January 2005.

[1049] Himabindu Lakkaraju, Indrajit Bhattacharya, and Chiranjib Bhattacharyya. Dynamic multi-relational chinese restaurant process for analyzing influences on users in social media. *CoRR*, abs/1205.1456, 2012.

[1050] Vasileios Lampos. Detecting events and patterns in large-scale user generated textual streams with statistical learning methods. *CoRR*, abs/1208.2873, 2012.

[1051] Joel Lang and Mirella Lapata. Similarity-driven semantic role induction via graph partitioning. *Comput. Linguist.*, 40(3):633–669, September 2014.

[1052] Joel Lang and Mirella Lapata. Similarity-driven semantic role induction via graph partitioning. *Computational Linguistics*, 40(3):633–669, 2014.

[1053] Amy N. Langville and Carl D. Meyer. Deeper inside PageRank. *Internet Mathematics*, 1(3):335–380, 2003.

[1054] Ray R. Larson. Bibliometrics of the World Wide Web: An exploratory analysis of the intellectual structure of cyberspace. In *Proceedings of the Annual Meeting of the American Society for Information Science '96: Global Complexity: Information, Chaos, and Control*, 1996.

[1055] Walter S. Lasecki, Samuel C. White, Kyle I. Murray, and Jeffrey P. Bigham. Crowd Memory: Learning in the Collective. *ArXiv e-prints 1204.3678*, April 2012.

[1056] Kathryn B. Laskey and James W. Myers. Population Markov chain monte carlo. *ML*, 50(1-2):175–196, January 2003.

[1057] Vito Latora and Massimo Marchiori. Is the boston subway a small-world network? Technical Report cond-mat/0202299, Arxiv.org, 2002.

[1058] Steve Lawrence. Context in Web search. *IEEE-DEB*, 23(3):25–32, 2000.

[1059] Steve Lawrence and C. Lee Giles. Context and page analysis for improved Web search. *IEEE-IC*, 2(4):38–46, 1998.

[1060] Steve Lawrence and C. Lee Giles. Searching the World Wide Web. *Science*, 280:98–100, April 1998.

[1061] Steve Lawrence and C. Lee Giles. Accessibility of information on the Web. *Nature*, 400(6740):107–109, July 8 1999.

[1062] Steve Lawrence and C. Lee Giles. Searching the Web: General and scientific information access. *IEEE-Comm*, 37(1):116–122, 1999.

[1063] Steve Lawrence, C. Lee Giles, and Kurt Bollacker. Digital libraries and autonomous citation indexing. *IEEE-C*, 32(6):67–71, 1999.

[1064] David Lazer, Alex Sandy Pentland, Lada Adamic, Sinan Aral, Albert Laszlo Barabasi, Devon Brewer, Nicholas Christakis, Noshir Contractor, James Fowler, Myron Gutmann, et al. Life in the network: the coming age of computational social science. *Science (New York, NY)*, 323(5915):721, 2009.

[1065] Conrad Lee and Pádraig Cunningham. The Geographic Flow of Music. *ArXiv 1204.2677*, April 2012.

[1066] D. Lee, K.-I. Goh, B. Kahng, and D. Kim. Complete trails of coauthorship network evolution. *arXiv*, 82(2):026112–+, August 2010.

[1067] Hyun Chul Lee. When the hyperlinked environment is perturbed. In *FOCS-WS2002A*, 2002.

[1068] E. A. Leicht, Gavin Clarkson, Kerby Shedden, and Mark E. J. Newman. Large-scale structure of time evolving citation networks. *The European Physical Journal B*, 59:75, 2007.

[1069] R. Lempel and S. Moran. SALSA: The stochastic approach for link-structure analysis. *ACM-TOIS*, 19(2):131–160, April 2001.

[1070] R. Lempel and S. Moran. Rank-stability and rank-similarity of link-based Web ranking algorithms in authority-connected graphs. *IR*, 8(2):245–264, April 2005.

[1071] Ronny Lempel and Shlomo Moran. The stochastic approach for link-structure analysis (SALSA) and the TKC effect. In *WWW2000*, pages 387–401, 2000.

[1072] Ronny Lempel and Shlomo Moran. Rank stability and rank similarity of link-based Web ranking algorithms in authority connected graphs. In *WWW-WS2003A*, 2003.

[1073] Ronny Lempel and Aya Soffer. PicASHOW: Pictorial authority search by hyperlinks on the Web. *ACM-TOIS*, 20(1):1–24, January 2002.

[1074] Marco Lenci. Recurrence for persistent random walks in two dimensions. Technical Report math/0507411, Arxiv.org, July 20, 2005.

[1075] Richard E. Lenski, Charles Ofria, Robert Pennock, and Christoph Adami. The evolutionary origin of complex features. *Nature*, 423:139–144, May 8, 2003.

[1076] J. Leskovec, A. Singh, and J. Kleinberg. Patterns of influence in a recommendation network, 2005.

[1077] Jure Leskovec, Lars Backstrom, Ravi Kumar, and Andrew Tomkins. Microscopic evolution of social networks. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 462–470, New York, NY, USA, 2008. ACM.

[1078] Jure Leskovec and Christos Faloutsos. Sampling from large graphs. In *KDD2006*, pages 631–636, 2006.

[1079] Jure Leskovec, Marko Grobelnik, and Natasa Milic-Frayling. Learning sub-structures of document semantic graphs for document summarization. In *KDD-WS2004A*, 2004.

[1080] Jure Leskovec and Eric Horvitz. Planetary-scale views on an instant-messaging network, 2008.

[1081] Jure Leskovec, Jon Kleinberg, and Christos Faloutsos. Graphs over time: densification laws, shrinking diameters and possible explanations. In *KDD '05: Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining*, pages 177–187, New York, NY, USA, 2005. ACM Press.

[1082] Jure Leskovec, Jon M. Kleinberg, and Christos Faloutsos. Graphs over time: Densification laws, shrinking diameters and possible explanations. In *KDD2005*, pages 177–187, 2005.

[1083] Jure Leskovec, Andreas Krause, Carlos Guestrin, Christos Faloutsos, Jeanne VanBriesen, and Natalie Glance. Cost-effective outbreak detection in networks. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 420–429, New York, NY, USA, 2007. ACM Press.

[1084] Jure Leskovec, Kevin J. Lang, Anirban Dasgupta, and Michael W. Mahoney. Community structure in large networks: Natural cluster sizes and the absence of large well-defined clusters. *ArXiv e-prints*, 0810(1355), 2008.

[1085] Jure Leskovec, Mary McGlohon, Christos Faloutsos, Natalie S. Glance, and Matthew Hurst. Patterns of cascading behavior in large blog graphs. In *SDM*, 2007.

[1086] Jure Leskovec, Natasa Milic-Frayling, and Marko Grobelnik. Impact of linguistic analysis on the semantic graph coverage and learning of document extracts. In *AAAI2005*, pages 1069–1074, 2005.

[1087] Christina Leslie and Rui Kuang. Fast string kernels using inexact matching for protein sequences. *JMLR*, 5:1435–1455, November 2004.

[1088] D. Levary, J.-P. Eckmann, E. Moses, and T. Tlusty. Self reference in word definitions. *ArXiv e-prints*, 1103.2325, March 2011.

[1089] David Levary, Jean-Pierre Eckmann, Elisha Moses, and Tsvi Tlusty. Loops and self-reference in the construction of dictionaries. *Phys. Rev. X*, 2:031018, Sep 2012.

[1090] Mark Levene, Trevor Fenner, George Loizou, and Richard Wheeldon. A stochastic model of evolution on the Web. *CN*, 39(3):277–287, June 21, 2002.

[1091] B. Levitt and M. Thelwall. A combined bibliometric indicator to predict article impact. *Information Processing & Management*, 47(2):227–237, March 2011.

[1092] L. Leydesdorff, L. Bornmann, R. Mutz, and T. Opthof. Turning the tables in citation analysis one more time: Principles for comparing sets of documents. *ArXiv e-prints*, January 2011.

[1093] L. Leydesdorff, B. Hammarfelt, and A. Almila Akdag Salah. The structure of the Arts & Humanities Citation Index: A mapping on the basis of aggregated citations among 1,157 journals. *ArXiv e-prints*, February 2011.

[1094] Loet Leydesdorff. Similarity measures, author cocitation analysis, and information theory. *JASIST*, 56(7):769–772, May 2005.

[1095] Loet Leydesdorff. Betweenness centrality as an indicator of the interdisciplinarity of scientific journals. *J. Am. Soc. Inf. Sci. Technol.*, 23:1303–1319, 2007.

[1096] Loet Leydesdorff. Visualization of the citation impact environment of scientific journals: An online mapping exercise. *JASIST*, 58(1):25–38, 2007.

[1097] Loet Leydesdorff. Caveats for the use of citation indicators in research and journal evaluations. *J. Am. Soc. Inf. Sci. Technol.*, 59(2):278–287, 2008.

[1098] Loet Leydesdorff and Liwen Vaughan. Co-occurrence matrices and their applications in information science: Extending ACA to the web environment. *JASIST*, 57(12):1616–1628, October 2006.

[1099] J. Li. Evaluating community structure in large network with random walks. *ArXiv e-prints*, January 2013.

[1100] Jing Li, Zhong Ji, Jing Zhang, and Yu-Ting Su. Generating diverse and relevant image searching results with divrank. In *2012 International Conference on Machine Learning and Cybernetics*, volume 4, pages 1480–1486. IEEE, 2012.

[1101] Jing Li, Zhong Ji, Jing Zhang, and Yuting Su. Generating diverse and relevant image searching results with divrank. In *International Conference on Machine Learning and Cybernetics, ICMLC 2012, Xian, Shaanxi, China, July 15-17, 2012, Proceedings*, pages 1480–1486, 2012.

[1102] Juzheng Li, Jun Zhu, and Bo Zhang. Discriminative deep random walk for network classification. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 1004–1013, Berlin, Germany, August 2016. Association for Computational Linguistics.

[1103] Liangyou Li, Andy Way, and Qun Liu. Graph-based translation via graph segmentation. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages

97–107, Berlin, Germany, August 2016. Association for Computational Linguistics.

[1104] Lin Li, Zhenglu Yang, and Masaru Kitsuregawa. Aggregating user-centered rankings to improve web search. In *AAAI 2007*, pages 1884–1885, 2007.

[1105] Longzhuang Li, Yi Shang, and Wei Zhang. Improvement of HITS-based algorithms on Web documents. In *WWW2002*, pages 527–535, 2002.

[1106] Lun Li, David Alderson Reiko Tanaka, John C. Doyle, and Walter Willinger. Towards a theory of scale-free graphs: Definition, properties, and implications (extended version), Oct 2005.

[1107] Qunhua Li and Marina Meila. Clustering by intersection-merging. Technical Report Technical Report no. 451, University of Washington Statistics, September 2004.

[1108] R.-H. Li, J. X. Yu, X. Huang, and H. Cheng. Random-walk domination in large graphs: problem definitions and fast solutions. *ArXiv e-prints*, February 2013.

[1109] Rong-Hua Li and Jeffery Xu Yu. Scalable diversified ranking on large graphs. In *Proceedings of the 2011 IEEE 11th International Conference on Data Mining*, ICDM '11, pages 1152–1157, Washington, DC, USA, 2011. IEEE Computer Society.

[1110] Rong-Hua Li and Jeffery Xu Yu. Scalable diversified ranking on large graphs. *IEEE Transactions on Knowledge and Data Engineering*, 25(9):2133–2146, 2013.

[1111] Wei Li and Andrew McCallum. Pachinko allocation: DAG-structured mixture models of topic correlations. In *ICML2006*, pages 577–584, 2006.

[1112] Wentian Li. Random texts exhibit Zipf's law-like word frequency distribution. *IEEE-TOIT*, 38(6):1842–1845, November 1992.

[1113] Wentian Li. Zipf's law everywhere. *Glottometrics*, 5:14–21, 2002.

[1114] Xiafeng Li, Derek Leonard, and Dmitri Loguinov. On reshaping of clustering coefficients in degree-based topology generators. In *FOCS-WS2004A*, pages 68–79, 2004.

[1115] Xiaoli Li and Bing Liu. Learning to classify texts using positive and unlabeled data. In *IJCAI2003*, pages 587–594, 2003.

[1116] Ying Li, Zijian Zheng, and Honghua (Kathy) Dai. Kdd cup-2005 report: Facing a great challenge. *SIGKDD-EN*, 7(2):91–99, 2005.

[1117] Z. Li, Y. Hu, B. Xu, Z. Di, and Y. Fan. Detecting the optimal number of communities in complex networks. *ArXiv e-prints*, 1103.5946, March 2011.

[1118] Percy Liang. *Semi-supervised learning for natural language*. PhD thesis, Massachusetts Institute of Technology, 2005.

[1119] Hao Liao, Giulio Cimini, and Matus Medo. Measuring quality, reputation and trust in online communities. *CoRR*, abs/1208.4042, 2012.

[1120] David Liben-Nowell and Jon Kleinberg. The link prediction problem for social networks. In *CIKM2003*, pages 556–559, 2003.

[1121] David Liben-Nowell and Jon Kleinberg. The link-prediction problem for social networks. *Journal of the American Society for Information Science and Technology*, 58(7):1019–1031, 2007.

[1122] David Liben-Nowell and Jon Kleinberg. Tracing information flow on a global scale using Internet chain-letter data. *Proceedings of the National Academy of Sciences*, page 0708471105, 2008.

[1123] David Liben-Nowell and Jon Kleinberg. Tracing information flow on a global scale using internet chain-letter data. *Proceedings of the National Academy of Sciences*, 105(12):4633–4638, 2008.

[1124] David Liben-Nowell and Jon Kleinberg. Tracing the flow of information on a global scale using Internet chain-letter data. *Proceedings of the National Academy of Sciences*, 105(12):4633–4638, March 2008.

[1125] David Liben-Nowell, Jasmine Novak, Ravi Kumar, Prabhakar Raghavan, and Andrew Tomkins. Geographic routing in social networks. *PNAS*, 102(33):11623–11628, August 16, 2005.

[1126] David Liben-Nowell, Jasmine Novak, Ravi Kumar, Prabhakar Raghavan, and Andrew Tomkins. Geographic routing in social networks. *Proceedings of the National Academy of Sciences of the United States of America*, 102(33):11623–11628, 2005.

[1127] Louis Licamele, Mustafa Bilgic, Lise Getoor, and Nick Roussopoulos. Capital and benefit in social networks. In *KDD-WS2005A*, 2005.

[1128] Elizabeth Liddy. How a search engine works. *Searcher*, 9(5), May 2001.

[1129] Erez Lieberman, Christoph Hauert, and Martin A. Nowak. Evolutionary dynamics on graphs. *Nature*, 433:312–316, January 20, 2005.

[1130] J. Liebig and A. Rao. A Clustering Coefficient to Identify Important Nodes in Bipartite Networks. *ArXiv e-prints*, June 2014.

[1131] Fredrik Liljeros, Christofer R. Edling, Luis A. Nunes Amaral, H. Eugene Stanley, and Yvonne Aberg. The Web of human sexual contacts. *Nature*, 411(6840):907, June 21, 2001.

[1132] F. W. S. Lima. Potts model with q states on directed Barabasi-Albert networks. Technical Report cond-mat/0608137, Arxiv.org, August 5, 2006.

[1133] Jia Lin and Alex Halavais. Mapping the Blogosphere in America. In *WWW-WS2004B*, 2004.

[1134] R. Lin, Q. D. Y. Ma, and C. Bian. Scaling laws in human speech, decreasing emergence of new words and a generalized model. *ArXiv e-prints*, December 2014.

[1135] Ziheng Lin and Min-Yen Kan. Unigram language models using diffusion smoothing over graphs. In *TextGraphs-2: Graph-Based Algorithms for Natural Language Processing*, pages 25–32, Rochester, New York, USA, 2007. Association for Computational Linguistics.

[1136] N. Litvak, W. R. W. Scheinhardt, and Y. Volkovich. In-degree and pagerank of web pages: Why do they follow similar power laws? In *Workshop On Algorithms And Models For The Web-Graph (WAW2006)*, page 7, 2006.

[1137] Biao Liu and Minlie Huang. A sentence interaction network for modeling dependence between sentences. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 558–567, Berlin, Germany, August 2016. Association for Computational Linguistics.

[1138] C. Liu, C. H. Yeung, and Z.-K. Zhang. Self-organization in social tagging systems. *ArXiv e-prints*, 1102.3989, February 2011.

[1139] H. Liu, X. Chen, J. Lafferty, and L. Wasserman. Graph-Valued Regression. *ArXiv e-prints*, 1006.3972, June 2010.

[1140] H. Liu, X. Chen, J. Lafferty, and L. Wasserman. Graph-Valued Regression. *ArXiv e-prints*, June 2010.

[1141] Xiaoming Liu, Johan Bollen, Michael L. Nelson, and Herbert Van de Sompel. Co-authorship networks in the digital library research community. *IPM*, 41(6):1462–1480, December 2005.

[1142] Yi Liu and Rong Jin. Query translation disambiguation as graph partitioning. In *AAAI2005*, pages 1424–1429, 2005.

[1143] Ying Liu, Kun Bai, Prasenjit Mitra, and C. Lee Giles. Tablerank: A ranking algorithm for table search and retrieval. In *AAAI*, pages 317–322, 2007 2007.

[1144] Z. Liu, J.-L. He, and J. Srivastava. Cliques in complex networks reveal link formation and community evolution. *ArXiv e-prints*, January 2013.

[1145] Alun L. Lloyd and Robert M. May. How viruses spread among computers and people. *Science*, 292(5520):1316–1317, May 18, 2001.

[1146] Loet Leydesdorff. World shares of publications of. *CoRR*, abs/1110.1802, 2011.

[1147] Lokman I. Meho and Kiduk Yang. Impact of data sources on citation counts and rankings of lis faculty: Web of science versus scopus and google scholar. *J. Am. Soc. Inf. Sci. Technol.*, 58(13):2105–2125, 2007.

[1148] Bo Long, Xiaoyun Wu, Zhongfei (Mark) Zhang, and Philip S. Yu. Unsupervised learning on K-partite graphs. In *KDD2006*, pages 317–326, 2006.

[1149] Bo Long, Zhongfei (Mark) Zhang, and Philip S. Yu. Graph partitioning based on link distributions. In *AAAI 2007*, pages 578–583, 2007.

[1150] Jan Lorenz, Heiko Rauhut, Frank Schweitzer, and Dirk Helbing. How social influence can undermine the wisdom of crowd effect. *Proceedings of the National Academy of Sciences*, 108(22):9020–9025, 2011.

[1151] Lori Lorigo, Jon Kleinberg, Richard Eaton, and Robert Constable. A graph-based approach towards discerning inherent structures in a digital library of formal mathematics. In *Proceedings of the Third International Conference on Mathematical Knowledge Management (MKM '04)*, pages 220–235. Springer, 2004.

[1152] A. J. Lotka. The frequency distribution of scientific productivity. *Journal of the Washington Academy of Science*, 16(12):317–323, June 19, 1926.

[1153] Yoram Louzoun, Lev Muchnik, and Sorin Solomon. Copying nodes versus editing links: the source of the difference between genetic regulatory networks and the www. *Bioinformatics*, 22(5):581–588, March 2006.

[1154] László Lovász. Random walks on graphs: A survey. *Combinatorics, Paul Erdos is Eighty*, 2:1–46, 1993.

[1155] László Lovász and Katalin Vesztergombi. Geometric representations of graphs. Technical Report MSR-TR-2000-47, Microsfot Research, May 2000.

[1156] George A. Lozano, Vincent Larivière, and Yves Gingras. The weakening relationship between the impact factor and papers' citations in the digital age. *CoRR*, abs/1205.4328, 2012.

[1157] L. Lü, D.-B. Chen, and T. Zhou. Small world yields the most effective information spreading. *ArXiv e-prints*, July 2011.

[1158] Linyuan Lu, Zi Ke Zhang, and Tao Zhou. Scaling Laws in Human Language. *ArXiv 1202.2903*, February 2012.

[1159] Qing Lu and Lise Getoor. Link-based classification using labeled and unlabeled data. In *ICML-WS2003B*, 2003.

[1160] Qing Lu and Lise Getoor. Link-based text classification. In *IJCAI-WS2003A*, 2003.

[1161] Wen-Hsiang Lu, Lee-Feng Chien, and Hsi-Jian Lee. Translation of Web queries using anchor text mining. *ACM-TALIP*, 1(2):159–172, 2002.

[1162] Wen-Hsiang Lu, Lee-Feng Chien, and Hsi-Jian Lee. Anchor text mining for translation of Web queries: A transitive translation approach. *ACM-TOIS*, 22(2):242–269, April 2004.

[1163] G. A. Luduena, H. Meixner, G. Kaczor, and C. Gros. A large-scale study of the World Wide Web: network correlation functions with scale-invariant boundaries. *ArXiv e-prints*, December 2012.

[1164] Rajan M. Lukose and Lada A. Adamic. Growing random networks under a diameter constraint. In *WWW-WS2003A*, 2003.

[1165] Thomas Lux and Michele Marchesi. Scaling and criticality in a stochastic multi-agent model of a financial market. *Nature*, 397(6719):498–499, February 11, 1999.

[1166] Julia Luxenburger and Gerhard Weikum. Exploiting community behavior for enhanced link analysis and Web search. In Alin Deutsch, Wenfei Fan, and Dayou Zhou, editors, *Proceedings of the SIGMOD '06 International Workshop on the Web and Databases (WebDB '06)*, Chicago, Illinois, USA, June 30, 2006.

[1167] Clifford Lynch. Searching the internet. *Scientific American*, 276(3):52–57, March 1997.

[1168] Donal Lyons and Gregory S. Tseytin. Phenomenal data mining and link analysis. In *AAAI-FS1998A*, pages 68–75, 1998.

[1169] Russell Lyons and Yuval Peres. Probability on trees and networks, 2005. Online Book.

[1170] M. A. Sumour and M. A. Radwan. Non-universality in semi-directed barabasi-albert networks. *CoRR*, abs/1205.0149, 2012.

[1171] C. R. MacCluer. The many proofs and applications of Perron's theorem. *SIAM Review (SIREV)*, 42(3):487–498, 2000.

[1172] B. Macdonald and W. Pulleyblank. Realignment in the NHL, MLB, the NFL, and the NBA. *ArXiv e-prints*, February 2013.

[1173] Sofus Macskassy, Arunava Banerjee, Brian D. Davison, and Haym Hirsh. Human performance on clustering Web pages: A preliminary study. In *KDD1998*, pages 264–268, 1998.

[1174] Sofus A. Macskassy. Improving learning in networked data by combining explicit and mined links. In *AAAI 2007*, pages 590–595, 2007.

[1175] Sofus A. Macskassy and Foster Provost. Classification in networked data: A toolkit and a univariate case study. *J. Mach. Learn. Res.*, 8:935–983, 2007.

[1176] Mauro Maggioni and Sridhar Mahadevan. Fast direct policy evaluation using multiscale analysis of Markov diffusion processes. In *ICML2006*, pages 601–608, 2006.

[1177] Priya Mahadevan, Dmitri Krioukov, Kevin Fall, and Amin Vahdat. Systematic topology analysis and generation using degree correlations. In *SIGCOMM 2006*, 2006.

[1178] Sridhar Mahadevan and Sarath Chandar. Reasoning about linguistic regularities in word embeddings using matrix manifolds. *CoRR*, abs/1507.07636, 2015.

[1179] Michael W. Mahoney, Lorenzo Orecchia, and Nisheeth K. Vishnoi. A local spectral method for graphs: With applications to improving graph partitions and exploring data graphs locally. *Journal of Machine Learning (JMLR)*, pages 2339–2365, August 2012.

[1180] Igor Malioutov and Regina Barzilay. Minimum cut model for spoken lecture segmentation. In *Proceedings of the 21st International Conference on Computational Linguistics and 44th Annual Meeting of the Association for Computational Linguistics*, pages 25–32, Sydney, Australia, July 2006.

[1181] R. Dean Malmgren, Daniel B. Stouffer, and Luís A. N. Amaral. A poissonian explanation for heavy tails in e-mail communication. *Proceedings of the National Academy of Sciences*, 105(47), November 2008.

[1182] R. Dean Malmgren, Daniel B. Stouffer, Adilson E. Motter, and Lus A. N. Amaral. A poissonian explanation for heavy tails in e-mail communication. *Proceedings of the National Academy of Sciences*, 105(47):18153–18158, 2008.

[1183] Robert Malouf and Tony Mullen. Graph-based user classification for informal online political discourse. In *WICOW 2007*, Miyazaki, Japan, 2007.

[1184] Benoit B. Mandelbrot. *The Fractal Geometry of Nature*. Freeman, New York, 1983.

[1185] Bhushan Mandhani, Krishna Kummamuru, and Sachindra Joshi. A matrix density based algorithm to hierarchically co-cluster documents and words. In *WWW2003*, pages 511–518, 2003.

[1186] Gideon S. Mann and Andrew McCallum. Simple, robust, scalable semi-supervised learning via expectation regularization. In *Proceedings of the 24th International Conference on Machine Learning*, ICML '07, pages 593–600, New York, NY, USA, 2007. ACM.

[1187] Massimo Marchiori. The quest for correct information on the Web: Hyper search engines. *CNIS*, 29(11):1225–1235, September 1997.

[1188] Dragos Margineantu, Stephen Bay, Philip Chan, and Terran Lane. Data mining methods for anomaly detection kdd-2005 workshop report. *SIGKDD-EN*, 7(2):132–136, 2005.

[1189] Zelda Mariet and Suvrit Sra. Diversity networks. *arXiv preprint arXiv:1511.05077*, 2015.

[1190] H. Masahiro, H. Takeda, and T. Nishimura. Network Analysis of an Emergent Massively Collaborative Creation Community: How Can People Create Videos Collaboratively without Collaboration? In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[1191] Sergei Maslov and Kim Sneppen. Specificity and Stability in Topology of Protein Networks. *Science*, 296(5569):910–913, 2002.

[1192] Sergei Maslov, Kim Sneppen, and Alexei Zaliznyak. Pattern detection in complex networks: Correlation profile of the internet. Technical Report cond-mat/0205379, Arxiv.org, 2002.

[1193] Sergei Maslov, Kim Sneppen, and Alexei Zaliznyak. Detection of topological patterns in complex networks: correlation profile of the internet. *Physica A*, 333:529–540, 2003.

[1194] Sergei Maslov and Yi-Cheng Zhang. Extracting hidden information from knowledge networks. *PRL*, 87(24):248701, December 10, 2001.

[1195] Winter Mason and Duncan J. Watts. Collaborative learning in networks. *Proceedings of the National Academy of Sciences*, 109(3):764–769, January 2012.

[1196] A. P. Masucci and G. J. Rodgers. Network properties of written human language. *PRE*, 74, August 2, 2006.

[1197] Mazlita Mat-Hassan and Mark Levene. Associating search and navigation behavior through log analysis. *JASIST*, 56(9):913–934, July 2005.

[1198] Nisha Mathias and Venkatesh Gopal. Small-worlds: How and why. *PRE*, 63(2):021117, February 2001.

[1199] Kaushik Matia, Luis A. Nunes Amaral, Marc Luwel, Henk F. Moed, and H. Eugene Stanley. Scaling phenomena in the growth dynamics of scientific output. *JASIST*, 56(9):893–902, July 2005.

[1200] Yutaka Matsuo. Clustering using small world structure. In *Proceedings of the Sixth International Conference on Knowledge-based Intelligent Information Engineering Systems and Applied Technologies (KES '02)*, pages 1252–1256, Crema, Italy, September 2002. IOS Press/Ohmsha.

[1201] Yutaka Matsuo, Hironori Tomobe, and Takuichi Nishimura. Robust estimation of google counts for social network extraction. In *AAAI 2007*, pages 1395–1401, 2007.

[1202] Sebastian M. Maurer and Bernardo A. Huberman. Competitive dynamics of Web sites. Technical Report nLin.CD/0003041, Arxiv.org, 2000.

[1203] Robert M. May and Alun L. Lloyd. Infection dynamics on scale-free networks. *PRE*, 64(6):066112, December 2001.

[1204] Thomas C McAndrew, Joshua C Bongard, Christopher M Danforth, Peter S Dodds, Paul DH Hines, and James P Bagrow. What we talk about when we talk about causality: Features of causal statements across large-scale social discourse. *arXiv preprint arXiv:1604.05781*, 2016.

[1205] Katherine W. McCain. Core journal networks and cocitation maps in the marine sciences: tools and information management in interdisciplinary research. In *Proceedings of the Annual Meeting of the American Society for Information Science '92: Celebrating Change : Information Management on the Move*, pages 3–7, Pittsburgh, Pennsylvania, USA, 1992. American Society for Information Science.

[1206] Andrew McCallum, Xuerui Wang, and Andres Corrada-Emmanuel. Topic and role discovery in social networks with experiments on enron and academic email. *JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH*, 30:249–272, 2007.

[1207] Ryan McDonald, Fernando Pereira, Kiril Ribarov, and Jan Hajič. Non-projective dependency parsing using spanning tree algorithms. In *HLT '05: Proceedings of the conference on Human Language Technology and Empirical Methods in Natural Language Processing*, pages 523–530, Morristown, NJ, USA, 2005. Association for Computational Linguistics.

[1208] Mary McGlohon, Leman Akoglu, and Christos Faloutsos. Weighted graphs and disconnected components: patterns and a generator. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 524–532, New York, NY, USA, 2008. ACM.

[1209] Mary McGlohon, Jure Leskovec, Christos Faloutsos, Matthew Hurst, and Natalie Glance. Modeling trust and influence in the blogosphere using link polarity. In *International Conference on Weblogs and Social Media*, 2007.

[1210] K. McKelvey and F. Menczer. Truthy: Enabling the Study of Online Social Networks. *ArXiv e-prints*, December 2012.

[1211] Miller McPherson, Lynn Lovin-Smith, and James M. Cook. Birds of a feather: Homophily in social networks. *AROS*, 27:415–444, 2001.

[1212] Frank McSherry. Spectral partitioning of random graphs. In *FOCS2001*, pages 529–537, 2001.

[1213] Frank McSherry. A uniform approach to accelerated PageRank computation. In *WWW2005*, pages 575–582, 2005.

[1214] Walter R. Mebane Jr. Election forensics: Vote counts and Benford's law. Technical report, The Society for Political Methodology - Working Papers, July 18, 2006.

[1215] Olena Medelyan. Computing lexical chains with graph clustering. In *Proceedings of the ACL 2007 Student Research Workshop*, pages 85–90, Prague, Czech Republic, June 2007. Association for Computational Linguistics.

[1216] Alberto Medina, Ibrahim Matta, and John Byers. On the origin of power laws in internet topologies. *Computer Communications Review*, 30(2):18–28, April 2000.

[1217] Edward Meeds, Zoubin Ghahramani, Radford Neal, and Sam Roweis. Modeling dyadic data with binary latent features. In *NIPS2006*, 2006.

[1218] George Meghabghab. Google's Web page ranking applied to different topological Web graph structures. *JASIST*, 52(9):736–747, 2001.

[1219] George Meghabghab. Discovering authorities and hubs in different topological Web graph structures. *IPM*, 38(1):111–140, January 2002.

[1220] Alexander Mehler. Large text networks as an object of corpus linguistic studies. In Anke Lüdeling and Merja Kytö, editors, *Corpus Linguistics. An International Handbook of the Science of Language and Society*. de Gruyter, Berlin/New York, 2007.

[1221] Qiaozhu Mei, Deng Cai, Duo Zhang, and ChengXiang Zhai. Topic modeling with network regularization. In *WWW '08: Proceeding of the 17th international conference on World Wide Web*, pages 101–110, New York, NY, USA, 2008. ACM.

[1222] Marina Meila. Comparing clusterings. Technical Report 418, University of Washington Statistics, October 2002.

[1223] Marina Meila. The multicut lemma. Technical Report 451, University of Washington Statistics, September 2004.

[1224] Marina Meila. Comparing clusterings - an axiomatic view. In *ICML2005*, 2005.

[1225] Marina Meila and Jianbo Shi. Learning segmentation by random walks. In *NIPS2000*, 2000.

[1226] Marina Meila and Jianbo Shi. A random walks view of spectral segmentation. In Thomas Richardson and Tommi Jaakkola, editors, *Proceedings of the 8th International Workshop on Artificial Intelligence and Statistics (AISTATS '01)*, Key West, Florida, USA, January 4-7, 2001.

[1227] Marina Meila, Susan Shortreed, and Liang Xu. Regularized spectral learning. Technical Report 465, University of Washington Statistics, November 2004.

[1228] Marina Meila and Liang Xu. Multiway cuts and spectral clustering. Technical Report 442, University of Washington Statistics, September 2004.

[1229] Stefano Melacci and Mikhail Belkin. Laplacian Support Vector Machines Trained in the Primal. *ArXiv e-prints 0909.5422*, September 2009.

[1230] Stefano Melacci and Mikhail Belkin. Laplacian support vector machines trained in the primal. *"Journal of Machine Learning Research"*, July 2011.

[1231] Filippo Menczer. ARACHNID: Adaptive retrieval agents choosing heuristic neighborhoods for information discovery. In *ICML1997*, pages 227–235, 1997.

[1232] Filippo Menczer. Links tell us about lexical and semantic Web content. Technical Report cs.IR/0108004, Arxiv.org, August 2001.

[1233] Filippo Menczer. Growing and navigating the small world Web. In *FOCS-WS2002A*, 2002.

[1234] Filippo Menczer. Growing and navigating the small World Web by local content. *PNAS*, 99(22):14014–14019, October 29, 2002.

[1235] Filippo Menczer. Growing and navigating the small world web by local content. *Proceedings of the National Academy of Sciences*, 99(22):14014–14019, 2002.

[1236] Filippo Menczer. Combining link and content analysis to estimate semantic similarity. In *WWW2004*, pages 452–453, 2004.

[1237] Filippo Menczer. Evolution of document networks. *PNAS*, 101(1):5261–5265, April 6, 2004.

[1238] Filippo Menczer. Lexical and semantic clustering by Web links. *JASIST*, 55(14):1261–1269, December 2004.

[1239] Filippo Menczer. Mapping the semantics of Web text and links. *IEEE Internet Computing*, 9(3):27–36, May/June 2005.

[1240] Alberto O. Mendelzon and Davood Rafiei. What do the neighbours think? Computing Web page reputations. *IEEE-DEB*, 23(3):9–16, 2000.

[1241] F. L. Metz, I. Neri, and D. Bollé. Spectra of sparse regular graphs with loops. *ArXiv e-prints*, July 2011.

[1242] Michael G. Gowanlock and Rich Gazan. Assessing researcher interdisciplinarity: A case study of the university of hawaii nasa astrobiology institute. *CoRR*, abs/1204.5563, 2012.

[1243] Milena Mihail and Christos H. Papadimitriou. On the Eigenvalue power law. In *Proceedings of the Sixth International Workshop on Randomization and Computation (RANDOM '02)*, 2002.

[1244] Rada Mihalcea and Paul Tarau. TextRank: Bringing order into texts. In *EMNLP2004*, 2004.

[1245] Stanley Milgram. The small world problem. *Psychology Today*, 1(1):60–67, 1967.

[1246] Ron Milo, Shalev Itzkovitz, Nadav Kashtan, Reuven Levitt, Shai Shen-Orr, Inbal Ayzenshtat, Michal Sheffer, and Uri Alon. Superfamilies of evolved and designed networks. *Science*, 303(5663):1538–1542, March 5, 2004.

[1247] Ron Milo, S. Shen-Orr, S. Itzkovitz, N. Kashtan, D. Chklovskii, and U. Alon. Network motifs: Simple building blocks of complex networks. *Science*, 298(5594):824–827, 2002.

[1248] Einat Minkov and William W. Cohen. Learning graph walk based similarity measures for parsed text. In *Proceedings of the 2008 Conference on Empirical Methods in Natural Language Processing*, pages 907–916, Honolulu, Hawaii, October 2008. Association for Computational Linguistics.

[1249] Einat Minkov and William W Cohen. Learning graph walk based similarity measures for parsed text. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, pages 907–916. Association for Computational Linguistics, 2008.

[1250] Einat Minkov, William W. Cohen, and Andrew Y. Ng. Contextual search and name disambiguation in email using graphs. In *SIGIR2006*, pages 27–34, 2006.

[1251] Pedro J. Miranda, Murilo S. Baptista, and Sandro E. de S. Pinto. Analysis of communities in a mythological social network. *CoRR*, abs/1306.2537, 2013.

[1252] Atieh Mirshahvalad, Johan Lindholm, Mattias Derlen, and Martin Rosvall. Significant communities in large sparse networks. *ArXiv 1110.0305*, October 2011.

[1253] Nina Mishra, Dana Ron, and Ram Swaminathan. Large clusters of Web pages. In *FOCS-WS2002A*, 2002.

[1254] Nina Mishra, Robert Schreiber, Isabelle Stanton, and Robert E. Tarjan. Clustering social networks. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[1255] Melanie Mitchell. Field review: Complex systems: Network thinking. *Artificial Intelligence*, 170(18):1194–1212, 2006.

[1256] Michael Mitzenmacher. A brief history of generative models for power law and lognormal distributions. *Internet Mathematics*, 1(2):226–251, 2003.

[1257] Michael Mitzenmacher. Dynamic models for file sizes and double Pareto distributions. *Internet Mathematics*, 1(3):305–333, 2003.

[1258] F. Mitzlaff and G. Stumme. Onomastics 2.0 - The Power of Social Co-Occurrences. *ArXiv e-prints*, March 2013.

[1259] Stefano Mizzaro and Stephen Robertson. Hits hits TREC: exploring IR evaluation results with network analysis. In *SIGIR '07: Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval*, pages 479–486, New York, NY, USA, 2007. ACM.

[1260] Dunja Mladenic and Marko Grobelnik. Predicting content from hyperlinks. In *ICML-WS1999A*, 1999.

[1261] D. Mocanu, A. Baronchelli, B. Gonçalves, N. Perra, and A. Vespignani. The Twitter of Babel: Mapping World Languages through Microblogging Platforms. *ArXiv e-prints*, December 2012.

[1262] Henk F. Moed. The effect of "open access" on citation impact: An analysis of arxiv's condensed matter section. *J. Am. Soc. Inf. Sci. Technol.*, 58(13):2047–2054, 2007.

[1263] Saif M. Mohammad and Graeme Hirst. Distributional Measures of Semantic Distance: A Survey. *ArXiv 1203.1858*, March 2012.

[1264] Bharath Kumar Mohan. Searching association networks for nurturers. *Computer*, 38(10):54–60, October 2005.

[1265] M. Molloy and B. Reed. A critical point for random graphs with a given degree sequence. *Random Structures and Algorithms*, 6:161–180, 1995.

[1266] Michael Molloy and Bruce Reed. The size of the giant component of a random graph with a given degree sequence. *Combinatorics, Probability, and Computing*, 7(3):295–305, September 1998.

[1267] Rémi Monasson. On the analysis of backtrack procedures for the colouring of random graphs. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 235–254. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[1268] Grégoire Montavon, Mikio L. Braun, and Klaus-Robert Müller. Kernel analysis of deep networks. *J. Mach. Learn. Res.*, 12, November 2011.

[1269] Marcelo A. Montemurro. Beyond the Zipf-Mandelbrot law in quantitative linguistics. *Physica A*, 300:567–578, November 2001.

[1270] Jose M. Montoya and Ricard V. Solé. Topological properties of food webs: From real data to community assembly models, 2001.

[1271] Jose M. Montoya and Ricard V. Solé. Small world patterns in food webs. *Journal of Theoretical Biology*, 214(3):405–412, February 7, 2002.

[1272] Christopher Moore, Gourab Ghoshal, and Mark E. J. Newman. Exact solutions for models of evolving networks with addition and deletion of nodes. Technical Report cond-mat/0604069, Arxiv.org, April 4, 2006.

[1273] Christopher Moore and Mark E. J. Newman. Epidemics and percolation in small-world networks. *PRE*, 61(5):5678–5682, May 2000.

[1274] Christopher Moore and Mark E. J. Newman. Exact solution of site and bond percolation on small-world networks. *PRE*, 62(5):7059–7064, November 2000.

[1275] Cristopher Moore. Tutorial on complex networks. In *NIPS-WS2003A*, 2003.

[1276] Luis G. Morelli. Simple model for directed networks. *Physical Review E*, 67(066107), 2003.

[1277] José Moreno and Gaël Dias. Easy web search results clustering: When baselines can reach state-of-the-art algorithms. In *14th Conference of the European Chapter of the Association for Computational Linguistics*, 2014.

[1278] Stephen Morris. Contagion. *Review of Economic Studies*, 67:57–58, 2000.

[1279] Steven A. Morris. Manifestation of emerging specialties in journal literature: A growth model of papers, references, exemplars, bibliographic coupling, cocitation, and clustering coefficient distribution. *JASIST*, 56(12):1250–1273, October 2005.

[1280] Steven A. Morris and Michel L. Goldstein. Manifestation of research teams in journal literature: A growth model of papers, authors, collaboration, coauthorship, weak ties, and lotka's law. *J. Am. Soc. Inf. Sci. Technol.*, 58(12):1764–1782, 2007.

[1281] Adilson E. Motter, Alessandro P. S. de Moura, Ying-Cheng Lai, and Partha Dasgupta. Topology of the conceptual network of language. *PRE*, 65(065102), June 25, 2002.

[1282] Adilson Enio Motter, Takashi Nishikawa, and Ying-Cheng Lai. Large-scale structural organization of social networks. *PRE*, 68(036105), 2003.

[1283] Abbe Mowshowitz and Akira Kawaguchi. Assessing bias in search engines. *IPM*, 38(1):141–156, January 2002.

[1284] Abbe Mowshowitz and Akira Kawaguchi. Measuring search engine bias. *IPM*, 41(5):1193–1205, September 2005.

[1285] A. Mukherjee, F. Tria, A. Baronchelli, A. Puglisi, V. Loreto, and M. Perc. Aging in Language Dynamics. *PLoS ONE*, 6, February 2011.

[1286] G. Mukherjee and S. S. Manna. Weighted scale-free network with self-organizing link weight dynamics. *Journal of Statistical Mechanics*, page L05001, 2006.

[1287] Maitrayee Mukherjee and Lawrence B. Holder. Graph-based data mining on social networks. In *KDD-WS2004A*, 2004.

[1288] Tsuyoshi Murata. Microscopic approaches for the discovery of Web communities. In *NIPS-WS2003A*, 2003.

[1289] Seth A. Myers, Chenguang Zhu, and Jure Leskovec. Information diffusion and external influence in networks. *CoRR*, abs/1206.1331, 2012.

[1290] Terutaka Nabeshima and Yukio-Pegio Gunji. Zipf's law in phonograms and Weibull distribution in ideograms: Comparison of English with Japanese. *Biosystems*, 73(2):131–139, 2004.

[1291] Raj Rao Nadakuditi and Mark E. J. Newman. Graph spectra and the detectability of community structure in networks. *CoRR*, abs/1205.1813, 2012.

[1292] Raj Rao Nadakuditi and Mark E. J. Newman. Spectra of random graphs with arbitrary expected degrees. *CoRR*, abs/1208.1275, 2012.

[1293] Marc Najork and Janet L. Weiner. Breadth-first search crawling yields high-quality pages. In *WWW2001*, 2001.

[1294] Marc A. Najork, Hugo Zaragoza, and Michael J. Taylor. Hits on the web: how does it compare? In *SIGIR '07: Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval*, pages 471–478, New York, NY, USA, 2007. ACM.

[1295] Ramesh M. Nallapati, Amr Ahmed, Eric P. Xing, and William W. Cohen. Joint latent topic models for text and citations. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 542–550, New York, NY, USA, 2008. ACM.

[1296] Amit A. Nanavati, Siva Gurumurthy, Gautam Das, Dipanjan Chakraborty, Koustuv Dasgupta, Sougata Mukherjea, and Anupam Joshi. On the structural properties of massive telecom call graphs: findings and implications. In *CIKM '06: Proceedings of the 15th ACM international conference on Information and knowledge management*, pages 435–444, New York, NY, USA, 2006. ACM.

[1297] Erkan Nane. Iterated Brownian motion in bounded domains in R^n. Technical Report math/0505026, Arxiv.org, October 7, 2005.

[1298] Shashi Narayan and Shay B. Cohen. Diversity in spectral learning for natural language parsing. *CoRR*, abs/1506.00275, 2015.

[1299] Shashi Narayan and Shay B. Cohen. Optimizing spectral learning for parsing. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 1546–1556, Berlin, Germany, August 2016. Association for Computational Linguistics.

[1300] Hariharan Narayanan, Mikhail Belkin, and Partha Niyogi. On the relation between low density separation, spectral clustering and graph cuts. In *NIPS2006*, 2006.

[1301] Mario A. Nascimento, Jörg Sander, and Jeffrey Pound. Analysis of SIGMOD's co-authorship graph. *ACM SIGMOD Record*, 32(3):8–10, September 2003.

[1302] Olfa Nasraoui, Bamshad Mobasher, Brij Masand, and Bing Liu. WebKDD 2004 - Web mining and Web usage analysis post-workshopr eport. *SIGKDD-EN*, 6(2):147–151, 2004.

[1303] Olfa Nasraoui, Osmar R. Zaiane, Myra Spiliopoulou, Bamshad Mobasher, Brij Masand, and Philip S. Yu. Webkdd 2005 - Web mining and Web usage analysis post-workshop report. *SIGKDD-EN*, 7(2):139–142, 2005.

[1304] Roberto Navigli and Mirella Lapata. Graph connectivity measures for unsupervised word sense disambiguation. In *IJCAI2007*, pages 1683–1688, 2007.

[1305] Roberto Navigli and Mirella Lapata. An experimental study of graph connectivity for unsupervised word sense disambiguation. *IEEE transactions on pattern analysis and machine intelligence*, 32(4):678–692, 2010.

[1306] Roberto Navigli and Simone Paolo Ponzetto. Babelnet: The automatic construction, evaluation and application of a wide-coverage multilingual semantic network. *Artificial Intelligence*, 193(0):217 – 250, 2012.

[1307] Roberto Navigli, Paola Velardi, and Stefano Faralli. A Graph-Based Algorithm for Inducing Lexical Taxonomies from Scratch. *ICJAI-2011*, July 2011.

[1308] Gregory B. Newby, Jane Greenberg, and Paul Jones. Open source software development and Lotka's Law: Bibliometric patterns in programming. *JASIST*, 54(2):169–178, January 15, 2003.

[1309] M. E. J. Newman. The mathematics of networks. In L. E. Blume and S. N. Durlauf, editors, *The New Palgrave Encyclopedia of Economics, 2nd edition*. Palgrave Macmillan, 1987.

[1310] M. E. J. Newman. Mixing patterns in networks. *PRE*, 67(2):026126, February 2003.

[1311] M. E. J. Newman. Fast algorithm for detecting community structure in networks. *Phys. Rev. E*, 69(6):066133, Jun 2004.

[1312] M. E. J. Newman. Spectral methods for community detection and graph partitioning. *Physical Review*, 2013.

[1313] Mark E. J. Newman. Models of the small world. *Journal of Statistical Physics*, 101(3):819–841, November 2000.

[1314] Mark E. J. Newman. Small worlds: The structure of social networks. Technical Report cond-mat/0001118, Arxiv.org, 2000.

[1315] Mark E. J. Newman. Clustering and preferential attachment in growing networks. *PRE*, 64(2):025102, August 2001.

[1316] Mark E. J. Newman. Ego-centered networks and the ripple effect, or why all your friends are weird. Technical Report cond-mat/0104209, Arxiv.org, 2001.

[1317] Mark E. J. Newman. Exact solutions of epidemic models on networks, 2001.

[1318] Mark E. J. Newman. The structure of scientific collaboration networks. *PNAS*, 98(2):404–409, 2001.

[1319] Mark E. J. Newman. Who is the best connected scientist? a study of scientific coauthorship networks. part i. network construction and fundamental results. *PRE*, 64(1):016131, July 2001.

[1320] Mark E. J. Newman. Who is the best connected scientist? a study of scientific coauthorship networks. part ii. shortest paths, weighted networks, and centrality. *PRE*, 64(1):016131, July 2001.

[1321] Mark E. J. Newman. Assortative mixing in networks. Technical Report cond-mat/0205405, Arxiv.org, 2002.

[1322] Mark E. J. Newman. Random graphs as models of networks. Technical Report cond-mat/0202208, Arxiv.org, 2002.

[1323] Mark E. J. Newman. The spread of epidemic disease on networks. *PRE*, 66(16):016128, July 2002.

[1324] Mark E. J. Newman. A measure of betweenness centrality based on random walks. Technical Report cond-mat/0309045, Arxiv.org, 2003.

[1325] Mark E. J. Newman. The structure and function of complex networks. *SIAM Review*, 45(2):167–256, 2003.

[1326] Mark E. J. Newman. Analysis of weighted networks. *PRE*, 70:056131, 2004.

[1327] Mark E. J. Newman. Who is the best connected scientist? a study of scientific coauthorship networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 337–370. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[1328] Mark E. J. Newman. Power laws, Pareto distributions and Zipf's law. *Contemporary Physics*, 46(5):323–351, December 2005.

[1329] Mark E. J. Newman. Finding community structure in networks using the eigenvectors of matrices. Technical Report physics/0605087, Arxiv.org, July 23, 2006.

[1330] Mark E. J. Newman. Modularity and community structure in networks. *PNAS*, 103(23):8577–8582, June 6, 2006.

[1331] Mark E. J. Newman, Stephanie Forrest, and Justin Balthrop. Email networks and the spread of computer viruses. *PRE*, 66(3):035101, September 2002.

[1332] Mark E. J. Newman, I. Jensen, and R. M. Ziff. Percolation and epidemics in a two-dimensional small world. *PRE*, 65(2):021904, February 2002.

[1333] Mark E. J. Newman, Christopher Moore, and Duncan J. Watts. Mean-field solution of small-world networks. *PRL*, 84(14):3201–3204, April 3, 2000.

[1334] Mark E. J. Newman and Juyong Park. Why social networks are different from other types of networks. *PRE*, 68(3):036122, September 2003.

[1335] Mark E. J. Newman, Steven H. Strogatz, and Duncan J. Watts. Random graphs with arbitrary degree distributions and their applications. *PRE*, 64(2):026118, July 24, 2001.

[1336] Mark E. J. Newman and Duncan J. Watts. Renormalization group analysis of the small-world network model. *Physics Letters A*, 263(5):341–346, December 6, 1999.

[1337] Mark E. J. Newman and Duncan J. Watts. Scaling and percolation in the small-world network model. *PRE*, 60(6):7332–7342, December 1999.

[1338] Mark E. J. Newman, Duncan J. Watts, and S. H. Strogatz. Random graph models of social networks. *PNAS*, 99:2566–2572, February 2002. Suppl.1.

[1339] Mark E. J. Newman and R. M. Ziff. A fast Monte Carlo algorithm for site or bond percolation. *PRE*, 64:016706, 2001.

[1340] Andrew Y. Ng, Michael I. Jordan, and Yair Weiss. On spectral clustering: Analysis and an algorithm. In *NIPS2001*, pages 849–856, 2001.

[1341] Andrew Y. Ng, Alice X. Zheng, and Michael I. Jordan. Link analysis, eigenvectors and stability. In *IJCAI2001*, pages 903–910, 2001.

[1342] Andrew Y. Ng, Alice X. Zheng, and Michael I. Jordan. Stable algorithms for link analysis. In *SIGIR2001*, pages 258–266, 2001.

[1343] V. Ng. Graph-Cut-Based Anaphoricity Determination for Coreference Resolution. In *NAACL HLT 2009*, 2009.

[1344] Vlad Niculae, Caroline Suen, Justine Zhang, Cristian Danescu-Niculescu-Mizil, and Jure Leskovec. QUOTUS: the structure of political media coverage as revealed by quoting patterns. *CoRR*, abs/1504.01383, 2015.

[1345] Lan Nie, Brian D. Davison, and Xiaoguang Qi. Topical link analysis for web search. In *SIGIR2006*, pages 91–98, 2006.

[1346] Lan Nie, Brian D. Davison, and Baoning Wu. From whence does your authority come? utilizing community relevance in ranking. In *AAAI 2007*, pages 1421–1426, 2007.

[1347] Zaiqing Nie, Yuanzhi Zhang, Ji-Rong Wen, and Wei-Ying Ma. Object-level ranking: Bringing order to Web objects. In *WWW2005*, pages 567–574, 2005.

[1348] Rasmus Nielsen, Joshua M Akey, Mattias Jakobsson, Jonathan K Pritchard, Sarah Tishkoff, and Eske Willerslev. Tracing the peopling of the world through genomics. *Nature*, 541(7637):302–310, 2017.

[1349] Kamal Nigam and Rayid Ghani. Analyzing the effectiveness and applicability of co-training. In *CIKM2000*, pages 86–93, 2000.

[1350] Kamal Nigam, John Lafferty, and Andrew McCallum. Using maximum entropy for text classification. In *IJCAI-WS1999A*, 1999.

[1351] Kamal Nigam, Andrew Kachites McCallum, Sebastian Thrun, and Tom Mitchell. Text classification from labeled and unlabeled documents using EM. *ML*, 39(2-3):103–134, 2000.

[1352] Vladimir Nikiforov. Walks and the spectral radius of graphs. Technical Report math/0506259, Arxiv.org, June 13, 2005.

[1353] Joakim Nivre, Johan Hall, and Jens Nilsson. Memory-based dependency parsing. In *Proceedings of the Eighth Conference on Computational Natural Language Learning (CoNLL)*, pages 49–56, Boston, MA, USA, May 2004.

[1354] Partha Niyogi. Manifold regularization and semi-supervised learning: Some theoretical analyses. *Journal of Machine Learning Research*, 14:1229–1250, 2013.

[1355] Caleb Noble and Diane Cook. Graph-based anomaly detection. In *KDD2003*, pages 631–636, 2003.

[1356] G. Niklas Norén and Roland Orre. Case based imprecision estimates for Bayes classifiers with the Bayesian bootstrap. *ML*, 58(1):79–94, January 2005.

[1357] Jasmine Novak, Prabhakar Raghavan, and Andrew Tomkins. Anti-aliasing on the Web. In *WWW2004*, pages 30–39, 2004.

[1358] Martin A. Nowak, Natalia L. Komarova, and Partha Niyogi. Computational and evolutionary aspects of language. *Nature*, 417:611–617, June 6, 2002.

[1359] Martin A. Nowak, Joshua B. PLotkin, and Vincent A. A. Jansen. The evolution of syntactic communication. *Nature*, 404:495–498, March 30, 2000.

[1360] Alexandros Ntoulas, Junghoo Cho, and Christopher Olston. What's new on the Web?: The evolution of the Web from a search engine perspective. In *WWW2004*, pages 1–12, 2004.

[1361] J. K. Ochab and Z. Burda. Maximal-entropy random walk unifies centrality measures. *CoRR*, abs/1206.4094, 2012.

[1362] Natalia Odintsova and Irina Rish. Fault diagnosis in random and scale-free networks. In *NIPS-WS2003A*, 2003.

[1363] João Gama Oliveira and Albert-László Barabási. Darwin and Einstein correspondance patterns. *Nature*, 437(27):1251–1252, October 2005.

[1364] Martin Olsen. Communities in large networks: identification and ranking. In *Workshop On Algorithms And Models For The Web-Graph (WAW2006)*, page 7, 2006.

[1365] Zoltan N. Oltvai and Albert-László Barabási. SYSTEMS BIOLOGY: Life's Complexity Pyramid. *Science*, 298(5594):763–764, 2002.

[1366] Joshua O'Madadhain, Danyel Fisher, Tom Nelson, Jens Krefeldt, Scott White, and Yan-Biao Boey. JUNG: Java Universal Network/Graph framework, 2005.

[1367] Joshua O'Madadhain, Jon Hutchins, and Padhraic Smyth. Prediction and ranking algorithms for event-based network data. *SIGKDD-EN*, 7(2):23–30, 2005.

[1368] Joshua O'Madadhain and Padhraic Smyth. EventRank: A framework for ranking time-varying networks. In *KDD-WS2005A*, 2005.

[1369] Edward T. O'Neill, Patrick D. McClain, and Brian F. Lavoie. A methodology for sampling the world wide Web. *Annual Review of OCLC Research*, 1997.

[1370] Jukka-Pekka Onnela, Jari Saramäki, Jörkki Hyvönen, Gábor Szabó, M. Argollo de Menezes, Kimmo Kaski, Albert-László Barabási, and János Kertész. Analysis of a large-scale weighted network of one-to-one human communication. Submitted, 2007.

[1371] Charles Oppenheim. Using the h-index to rank influential british researchers in information science and librarianship: Brief communication. *J. Am. Soc. Inf. Sci. Technol.*, 58(2):297–301, 2007.

[1372] Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. Comparative evaluation of community detection algorithms: A topological approach. *CoRR*, abs/1206.4987, 2012.

[1373] Jahna Otterbacher, Güneş Erkan, and Dragomir Radev. Using random walks for question-focused sentence retrieval. In *Proceedings of Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing*, pages 915–922, Vancouver, British Columbia, Canada, October 2005. Association for Computational Linguistics.

[1374] Arzucan Özgür and Haluk Bingol. Social network of co-occurrence in news articles. In *Proceedings of the Nineteenth International Symposium on Computer and Information Sciences (ISCIS '04)*, pages 688–695, 2004.

[1375] H. Cenk Ozmutlu and Fatih Çavdur. Application of automatic topic identification on Excite Web search engine data logs. *IPM*, 41(5):1243–1262, September 2005.

[1376] Andreas Paepcke, Hector Garcia-Molina, Gerard Rodríguez-Mulá, and Junghoo Cho. Beyond document similarity: Understanding value-based search and browsing technologies. *SIGMOD-R*, 29(1):80–92, March 2000.

[1377] L. Page, S. Brin, R. Motwani, and T. Winograd. The PageRank citation ranking: Bringing order to the Web. Technical report, Stanford Digital Libary Technologies Project, January 29, 1998.

[1378] Sukomal Pal and Aditya Bagchi. Association against dissociation: some pragmatic considerations for frequent itemset generation under fixed and variable thresholds. *SIGKDD-EN*, 7(2):151–159, 2005.

[1379] C. Palmer, P. Gibbons, and C. Faloutsos. ANF: A fast and scalable tool for data mining in massive graphs. In *KDD2002*, 2002.

[1380] R. K. Pan and J. Saramäki. The strength of strong ties in scientific collaboration networks. *ArXiv e-prints*, June 2011.

[1381] Raj Kumar Pan, Sitabhra Sinha, Kimmo Kaski, and Jari Saramäki. The evolution of interdisciplinarity in physics research. *CoRR*, abs/1206.0108, 2012.

[1382] Gopal Pandurangan, Prabhakara Raghavan, and Eli Upfal. Using page rank to characterize Web structure. In *Proceedings of the Eighth International Computing and Combinatorics Conference (COCOON '02)*, 2002.

[1383] Bo Pang and Lillian Lee. A sentimental education: Sentiment analysis using subjectivity summarization based on minimum cuts. In *Proceedings of the 42nd Meeting of the Association for Computational Linguistics (ACL'04), Main Volume*, pages 271–278, Barcelona, Spain, July 2004.

[1384] Gautam Pant, Padmini Srinivasan, and Filippo Menczer. Crawling the Web. In M. Levene and A. Poulovassilis, editors, *Web Dynamics*. Springer-Verlag, 2003.

[1385] David A. Papa and Igor L. Markov. Hypergraph partitioning and clustering. In Teofilo F. Gonzalez, editor, *Handbook of Approximation Algorithms and Metaheuristics*, volume 10 of *Computer and Information Science Series*, chapter 61. Chapman & Hall/CRC Press, 2006.

[1386] Christos H. Papadimitriou, Prabhakar Raghavan, Hisao Tamaki, and Santosh Vempala. Latent semantic indexing: A probabilistic analysis. *JCSS: Journal Of Computer and System Sciences*, 61(2):217–235, October 2000.

[1387] M. Papagelis, N. Bansal, and N. Koudas. Information Cascades in the Blogosphere: A Look Behind the Curtain. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[1388] Kishore Papineni. Why inverse document frequency? In *NAACL2001*, pages 25–32, 2001.

[1389] Ashwin Paranjape, Austin R Benson, and Jure Leskovec. Motifs in temporal networks. *arXiv preprint arXiv:1612.09259*, 2016.

[1390] Vilfredo Pareto. Cours d'économie politique professé á l'université de Lausanne, 1897.

[1391] Han Woo Park. Hyperlink network analysis: A new method for the study of social structure on the Web. *Connections*, 25(1):49–61, 2003.

[1392] Juyong Park and M. E. J. Newman. The origin of degree correlations in the internet and other networks. *Physical Review E*, 68:026112, 2003.

[1393] Juyong Park and Mark E. J. Newman. The statistical mechanics of networks. *PRE*, 70:066117, 2004.

[1394] Juyong Park and Mark E. J. Newman. A network-based ranking system for US college football. *Journal of Statistical Mechanics: Theory and Experiment*, 2005.

[1395] Albert Parker. Phase transitions in the information distortion. In *NIPS-WS2003B*, 2003.

[1396] Srinivasan Parthasarathy, Wei Wang, and Mohammed Zaki. Biokdd 2005 workshop report. *SIGKDD-EN*, 7(2):129–131, 2005.

[1397] Romualdo Pastor-Satorras, Eric Smith, and Ricard V. Solé. Evolving protein interaction networks through gene duplication, 2002.

[1398] Romualdo Pastor-Satorras, Alexei Vázquez, and Alessandro Vespignani. Dynamical and correlation properties of the internet. *PRL*, 87(25):258701, December 17, 2001.

[1399] Romualdo Pastor-Satorras, Alexei Vázquez, and Alessandro Vespignani. Topology, hierarchy, and correlations in Internet graphs. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 425–440. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[1400] Romualdo Pastor-Satorras and Alessandro Vespignani. Epidemic searching in scale-free networks. *PRL*, 86(14):3200–3203, April 2, 2000.

[1401] Romualdo Pastor-Satorras and Alessandro Vespignani. Epidemic dynamics and endemic states in complex networks. *PRE*, 63(6):066117, June 2001.

[1402] Romualdo Pastor-Satorras and Alessandro Vespignani. Epidemic dynamics in finite size scale-free networks. *PRE*, 65(3):035108, March 2002.

[1403] Romualdo Pastor-Satorras and Alessandro Vespignani. Epidemics and immunization in scale-free networks. Technical Report cond-mat/0205260, Arxiv.org, 2002.

[1404] Romualdo Pastor-Satorras and Alessandro Vespignani. Immunization of complex-networks. *PRE*, 65(3):036104, March 2002.

[1405] Anne Patrikainen and Marina Meila. Spectral clustering for Microsoft Netscan data. Technical Report Working Paper no. 49, Center for Statistics and the Social Sciences at the University of Washington, July 2005.

[1406] Daniel Pauly and Konstantinos I. Stergiou. Equivalence of results from two citation analyses: Thomson ISI's citation index and Google's Scholar service. *Ethics in Science and Environmental Politics*, pages 33–35, December 22, 2005.

[1407] Nigel Payne and Mike Thelwall. Mathematical models for academic webs: Linear relationship or non-linear power law? *IPM*, 41(6):1495–1510, December 2005.

[1408] Eitan Adam Pechenick, Christopher M. Danforth, and Peter Sheridan Dodds. Is language evolution grinding to a halt?: Exploring the life and death of words in english fiction. *CoRR*, abs/1503.03512, 2015.

[1409] Rick Pechter. Data mining standards, services and platforms 2005 workshop report. *SIGKDD-EN*, 7(2):137–138, 2005.

[1410] M. Pellegrini, F. Geraci, and M. Baglioni. Detecting dense communities in large social and information networks with the Core & Peel algorithm. *ArXiv e-prints*, October 2012.

[1411] David M. Pennock, Gary W. Flake, Steve Lawrence, Eric J. Glover, and C. Lee Giles. Winners don't take all: Characterizing the competition for links on the Web. *PNAS*, 99(8):5207–5211, April 16, 2002.

[1412] David M. Pennock, Gary W. Flake, Steve Lawrence, Eric J. Glover, and C. Lee Giles. Winners don't take all: Characterizing the competition for links on the web. *Proceedings of the National Academy of Sciences*, 99(8):5207–5211, 2002.

[1413] A. Pepe. The relationship between acquaintanceship and coauthorship in scientific collaboration networks. *ArXiv 1108.4361*, August 2011.

[1414] Fernando Pereira, Naftali Tishby, and Lillian Lee. Distributional clustering of English words. In *ACL1993*, pages 183–190, 1993.

[1415] Lucas R. Peres and José F. Fontanari. Revisiting the effect of external fields in axelrod's model of social dynamics. *CoRR*, abs/1205.3352, 2012.

[1416] Mike Perkowitz, Matthai Philipose, Kenneth Fishkin, and Donald J. Patterson. Mining models of human activities from the Web. In *WWW2004*, pages 573–582, 2004.

[1417] Richard Perline. Zipf's law, the central limit theorem, and the random division of the unit interval. *PRE*, 54(1):220–223, 1996.

[1418] B. Perozzi, R. Al-Rfou, V. Kulkarni, and S. Skiena. Inducing Language Networks from Continuous Space Word Representations. *ArXiv e-prints*, March 2014.

[1419] Bryan Perozzi, Rami Al-Rfou, and Steven Skiena. Deepwalk: Online learning of social representations. In *Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 701–710. ACM, 2014.

[1420] Fernando Peruani, Monojit Choudhury, Animesh Mukherjee, and Niloy Ganguly. Emergence of a non-scaling degree distribution in bipartite networks: a numerical and analytical study. *Europhysics Letters*, 79:28001, 2007.

[1421] Péter Pollner and Gergely Palla and Tamás Vicsek. Parallel clustering with cfinder. *CoRR*, abs/1205.0960, 2012.

[1422] Javier López Peña and Hugo Touchette. A network theory analysis of football strategies. 2012. http://arxiv.org/abs/1206.6904.

[1423] T. K. Philips, D. F. Towsley, and J. K. Wolf. On the diameter of a class of random graphs. *IEEE-TOIT*, 36(2):285–288, 1990.

[1424] Gregory Piatetsky-Shapiro. Interview with usama fayyad, yahoo chief data officer. *SIGKDD-EN*, 7(2):84–90, 2005.

[1425] Pierre Mazzega and Danièle Bourcier and Romain Boulet. The network of french legal codes. *CoRR*, abs/1204.6284, 2012.

[1426] Stuart L. Pimm, John Lawton, and Joel Cohen. Food Web patterns and their consequences. *Nature*, 350(6320):669–674, April 25, 1991.

[1427] Balázs Pintér, Gyula Voros, Zoltán Szabó, and András Lörincz. Automated word puzzle generation via topic dictionaries. *CoRR*, abs/1206.0377, 2012.

[1428] Pedro C. Pinto, Patrick Thiran, and Martin Vetterli. Locating the Source of Diffusion in Large-Scale Networks. *Physical Review Letters*, 109, August 2012.

[1429] Nicholas J. Pioch, Daniel Hunter, James V. White, Amy Kao, Daniel Bostwick, and Eric K. Jones. Multi-hypothesis abductive reasoning for link discovery. In *KDD-WS2004A*, 2004.

[1430] Vassilis Plachouras and Iadh Ounis. Usefulness of hyperlink structure for query-biased topic distillation. In *SIGIR2004*, pages 448–455, 2004.

[1431] S. Pompei, V. Loreto, and F. Tria. On the accuracy of language trees. *ArXiv e-prints*, 1103.4012, March 2011.

[1432] Alexandrin Popescul and Lyle H. Ungar. Structural logistic regression for link analysis. In *KDD-WS2003B*, 2003.

[1433] Alexandrin Popescul, Lyle H. Ungar, David M. Pennock, and Steve Lawrence. Probabilistic models for unified collaborative and content-based recommendation in sparse-data environments. In *Proceedings of the Seventeenth Annual Conference on Uncertainty in Artificial Intelligence (UAI '01)*, pages 437–444. MKP, 2001.

[1434] Mason A. Porter, Peter J. Mucha, Mark E. J. Newman, and Casey M. Warmbrand. A network analysis of committees in the U. S. House of Representatives. *PNAS*, 102(20):7057–7062, 2005.

[1435] Mason A. Porter, Peter J. Mucha, Mark E. J. Newman, and Casey M. Warmbrand. Community structure in the United States House of Representatives. Technical Report physics/0602033, Arxiv.org, February 4, 2006.

[1436] Mason A Porter, Peter J Mucha, Mark EJ Newman, and Casey M Warmbrand. A network analysis of committees in the us house of representatives. *Proceedings of the National Academy of Sciences of the United States of America*, 102(20):7057–7062, 2005.

[1437] Anatolij P. Potapov, Nico Voss, Nicole Sasse, and Edgar Wingender. Topology of mammalian transcription networks. *Genome Inform*, 16(2):270–278, 2005.

[1438] L. Pratelli, A. Baccini, L. Barabesi, and M. Marcheselli. Statistical analysis of the Hirsch Index. *ArXiv e-prints*, 1102.2701, February 2011.

[1439] V. M. Preciado, A. Jadbabaie, and G. C. Verghese. Structural Analysis of Laplacian Spectral Properties with Application to Electric Transmission Networks. *ArXiv e-prints*, July 2011.

[1440] The Associated Press. Better search results than Google? *CNN.com*, January 5, 2004.

[1441] Liz Price and Mike Thelwall. The clustering power of low frequency words in academic webs. *JASIST*, 56(8):883–888, June 2005.

[1442] Camille Prime-Claverie, Michael Beigbeder, and Thierry Lafouge. Transposition of the cocitation method with a view to classifying Web pages. *JASIST*, 55(14):1282–1289, December 2004.

[1443] Emily Prud'hommeaux and Brian Roark. Graph-based word alignment for clinical language evaluation. *Computational Linguistics*, 2016.

[1444] Teresa Przytycka and Yi-Kuo Yu. Divergent evolutionary drift contradicts power law. In *ISMB2004*, 2004.

[1445] Andrea Puglisi, Andrea Baronchelli, and Vittorio Loreto. Cultural route to the emergence of linguistic categories. *Proceedings of the National Academy of Sciences*, 105(23):7936–7940, 2008.

[1446] Denise Pumain. Scaling laws and urban systems. Technical report, Working Papers of Santa Fe Institute, 04-02-002, August 2003.

[1447] Amit R. Puniyani and Rajan M. Lukose. Growing random networks under constraints. Technical Report cond-mat/0107391, Arxiv.org, 2001.

[1448] Amit R. Puniyani, Rajan M. Lukose, and Bernardo A. Huberman. Intentional walks on scale-free small worlds. Technical Report cond-mat/0107212, Arxiv.org, 2001.

[1449] A. Qamra, B. Tseng, and E. Chang. Mining blog stories using community-based and temporal clustering. In *CIKM2006*, 2006.

[1450] V. Qazvinian and D. R. Radev. The Evolution of Scientific Paper Title Networks. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[1451] Vahed Qazvinian and Dragomir R. Radev. A Computational Analysis of Collective Discourse. *ArXiv e-prints 1204.3498*, April 2012.

[1452] Vahed Qazvinian, Abtin Rassoliau, and Mohammad Shafiei. A large-scale study on Persian weblogs. In *Proceedings of LINKKDD 2007*, 2007.

[1453] X. Qi and B. Davison. Knowing a web page by the company it keeps. In *CIKM2006*, 2006.

[1454] S.-M. Qin, H. Verkasalo, M. Mohtaschemi, T. Hartonen, and M. Alava. Patterns, entropy, and predictability of human mobility and life. *ArXiv e-prints*, November 2012.

[1455] Tao Qin, Tie-Yan Liu, Xu-Dong Zhang, Zheng Chen, and Wei-Ying Ma. A study of relevance propagation for Web search. In *SIGIR2005*, 2005.

[1456] W. Quattrociocchi and F. Amblard. Emergence through Selection: The Evolution of a Scientific Challenge. *ArXiv e-prints*, 1102.0257, February 2011.

[1457] Kevin M. Quinn, Burt L. Monroe, Michael Colaresi, Michael H. Crespin, and Dragomir R. Radev. An automated method of topic-coding legislative speech over time with application to the 105th-108th U. S. Senate. Technical report, The Society for Political Methodology - Working Papers, July 18, 2006.

[1458] Kevin M. Quinn, Burt L. Monroe, Michael, Colaresi, Michael H. Crespin, and Dragomir R. Radev. How to analyze political attention with minimal assumptions and cost. July 2007.

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[1459] Michael G. Rabbat and Mário A.T. Figueiredo Robert D. Nowak. Inferring network structure from co-occurrences. In *NIPS2006*, 2006.

[1460] Dragomir Radev, Weiguo Fan, Hong Qi, Harris Wu, and Amardeep Grewal. Probabilistic question answering on the web. *JASIST*, 56(6):571–583, April 2005.

[1461] Dragomir R. Radev. Weakly supervised graph-based methods for classification. *UMich CSE Tech Report CSE-TR-500-04*, December 2004.

[1462] Dragomir R Radev, Mark Thomas Joseph, Bryan Gibson, and Pradeep Muthukrishnan. A bibliometric and network analysis of the field of computational linguistics. *Journal of the American Society for Information Science and Technology*, 1001:48109–1092, 2009.

[1463] F. Radicchi and S. Fortunato. Explosive Percolation in Scale-Free Networks. *Physical Review Letters*, 103(16), October 2009.

[1464] F. Radicchi and M. Perc. Who Is the Best Player Ever? A Complex Network Analysis of the History of Professional Tennis. *PLoS ONE*, 6, February 2011.

[1465] Filippo Radicchi, Claudio Castellano, Federico Cecconi, Vittorio Loreto, and Domenico Parisi. Defining and identifying communities in networks. *PNAS*, 101:2658–2663, 2004.

[1466] Filip Radlinski and Thorsten Joachims. Active exploration for learning rankings from clickthrough data. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 570–579, New York, NY, USA, 2007. ACM Press.

[1467] Davood Rafiei. Some applications of snowball sampling on the web graph. In *Workshop On Algorithms And Models For The Web-Graph (WAW2006)*, page 8, 2006.

[1468] Davood Rafiei and Alberto O. Mendelzon. What is this page known for? Computing Web page reputations. *WWW2000*, 33(1–6):823–835, June 2000.

[1469] Hema Raghavan, James Allan, and Andrew McCallum. An exploration of entity models, collective classification and relation description. In *KDD-WS2004A*, 2004.

[1470] Hema Raghavan, Omid Madani, and Rosie Jones. Active learning with feedback on both features and instances. *JMLR*, 7:1655–1686, 2006.

[1471] Pradhakar Raghavan. Incentive networks. In *KDD2005*, page 1, 2005.

[1472] Erhard Rahm and Andreas Thor. Citation analysis of database publications. *ACM SIGMOD Record*, 34(4):48–53, Debember 2005.

[1473] S. Rajyalakshmi, Amitabha Bagchi, Soham Das, and Rudra M. Tripathy. Topic Diffusion and Emergence of Virality in Social Networks. *ArXiv e-prints*, February 2012.

[1474] Cartic Ramakrishnan, William H. Milnor, Matthew Perry, and Amit P. Sheth. Discovering informative connection subgraphs in multi-relational graphs. *SIGKDD-EN*, 7(2):56–63, 2005.

[1475] José J. Ramasco, Sergey N. Dorogovtsev, and Romualdo Pastor-Satorras. Self-organization of collaboration networks. *Physical Review E*, 70:036106, 2004.

[1476] Ramesh M. Nallapati and Susan Ditmore and John D. Lafferty and Kin Ung. Multiscale topic tomography. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 520–529, New York, NY, USA, 2007. ACM Press.

[1477] David G. Rand, Samuel Arbesman, and Nicholas A. Christakis. Dynamic social networks promote cooperation in experiments with humans. *Proceedings of the National Academy of Sciences*, 2011.

[1478] K. Randall, R. Stata, R. Wickremesinghe, and J. Wiener. The link database: Fast access to graphs of the Web. Technical Report Research Report 175, Compaq Systems Research Center, Palo Alto, CA, 2001.

[1479] Marc'Aurelio Ranzato, Christopher Poultney, Sumit Chopra, and Yann LeCun. Efficient learning of sparse representations with an energy-based model. In *NIPS2006*, 2006.

[1480] Raoul-Martin Memmesheimer and Marc Timme. Designing complex networks. *Physica D*, 224(1-2):182–201, December 2006.

[1481] Anatol Rapoport. Contribution to the theory of random and biased nets. *Bulletin of Mathematical Biology*, 19(4), December 1957.

[1482] Anatol Rapoport. Cycle distribution in random nets. *Bulletin of Mathematical Biology*, 10, 1968.

[1483] Sylvia Ratnasamy, Scott Shenker, and Ion Stoica. Routing algorithms for dhts: Some open questions. In *1st International Workshop on Peer-to-Peer Systems (IPTPS)*, 2002.

[1484] Matthew J. Rattigan and David Jensen. The case for anomalous link discovery. *SIGKDD-EN*, 7(2):41–47, 2005.

[1485] Matthew J. Rattigan, Marc Maier, and David Jensen. Using structure indices for efficient approximation of network properties. In *KDD2006*, pages 357–366, 2006.

[1486] Matthew J. Rattigan, Marc Maier, and David Jensen. Graph clustering with network structure indices. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[1487] E. Ravasz, A. L. Somera, D. A. Mongru, Z. N. Oltvai, and A. L. Barabási. Hierarchical organization of modularity in metabolic networks. *Science*, 297(5586):1551–1555, August 30, 2002.

[1488] Erzsebet Ravasz and Albert-Laszlo Barabasi. Hierarchical organization in complex networks. *PRE*, 67:026112, 2003.

[1489] Sujith Ravi and Qiming Diao. Large scale distributed semi-supervised learning using streaming approximation. *arXiv preprint arXiv:1512.01752*, 2015.

[1490] Andrew Reagan, Brian Tivnan, Jake Ryland Williams, Christopher M Danforth, and Peter Sheridan Dodds. Benchmarking sentiment analysis methods for large-scale texts: A case for using continuum-scored words and word shift graphs. *arXiv preprint arXiv:1512.00531*, 2015.

[1491] S. Redner. How popular is your paper? An empirical study of the citation distribution. *European Physical Journal B*, 4(2):131–134, 1998.

[1492] Yong Ren, Yining Wang, and Jun Zhu. Spectral learning for supervised topic models. *arXiv preprint arXiv:1602.06025*, 2016.

[1493] Jason Rennie and Andrew K. McCallum. Using reinforcement learning to spider the Web efficiently. In *ICML-WS1999A*, pages 335–343, 1999.

[1494] John Resig, Santosh Dawara, Christopher M. Homan, and Ankur Teredesai. Extracting social networks from instant messaging populations. In *KDD-WS2004A*, 2004.

[1495] Paul Resnick, Neophytos Iacovou, Mitesh Suchak, Peter Bergstrom, and John Riedl. GroupLens: An open architecture for collaborative filtering of netnews. In *CSCW1994*, pages 175–186, 1994.

[1496] Mathew Richardson and Pedro Domingos. The intelligent surfer: Probabilistic combination of link and content information in PageRank. In *NIPS2002*, 2002.

[1497] Matthew Richardson and Pedro Domingos. Mining knowledge-sharing sites for viral marketing. In *KDD2002*, pages 61–70, 2002.

[1498] Matthew Richardson, Amit Prakash, and Eric Brill. Beyond PageRank: Machine learning for static ranking. In *WWW2006*, pages 707–715, 2006.

[1499] Matei Ripeanu, Ian Foster, and Adriana Iamnitchi. Mapping the gnutella network: Properties of large-scale peer-to-peer systems and implications for system design. *IEEE-IC*, 6(1):50–57, January/February 2002.

[1500] Garry Robins, Philippa Pattison, and Jodie Woolcock. Small and other worlds: Global network structures from local processes. *AJS*, 110(4):894–936, January 2005.

[1501] Tim Rocktaschel, Michael Weidlich, and Ulf Leser. Chemspot: A hybrid system for chemical named entity recognition. *Bioinformatics*, January 2012.

[1502] F. A. Rodrigues, G. Ferraz de Arruda, and L. da Fontoura Costa. A Complex Networks Approach for Data Clustering. *ArXiv e-prints*, 1101.5141, January 2011.

[1503] Anne De Roeck, Avik Sarkar, and Paul H. Garthwaite. Even very frequent function words do not distribute homogeneously. In *RANLP2005*, 2005.

[1504] Thomas Roelleke. A frequency-based and a Poisson-based definition of the probability of being informative. In *SIGIR2003*, pages 227–234, 2003.

[1505] S. Ronen, B. Gonçalves, K. Hu, A. Vespignani, S Pinker, and C. Hidalgo. Links that speak: The global language network and its association with global fame. *PNAS*, 2014.

[1506] R. K. D. D. R. R. P. Ronhovde and Z. Nussinov. An edge density definition of overlapping and weighted graph communities. *ArXiv e-prints*, January 2013.

[1507] K. Rose, E. Gurewitz, and G. Fox. Statistical mechanics and phase transitions in clustering. *Physical Review Letters*, 65(8):945–848, February 15, 1990.

[1508] Martin Rosvall and Carl T. Bergstrom. An information-theoretic framework for resolving community structure in complex networks. *PNAS*, 104:7327–7331, 2007.

[1509] Martin Rosvall and Carl T. Bergstrom. Maps of random walks on complex networks reveal community structure. *Proceedings of the National Academy of Sciences*, January 2008.

[1510] Martin Rosvall and Kim Sneppen. Modeling dynamics of information networks. In *NIPS-WS2003A*, 2003.

[1511] Ronald Rousseau. Bradford curves. *IPM*, 30(2):267–277, March-April 1994.

[1512] Ronald Rousseau and Alesia Zuccala. A classification of author co-citations: Definitions and search strategies. *JASIST*, 55(6):513–529, April 2004.

[1513] H. D. Rozenfeld, J. E. Kirk E. M. Bollt, and D. Ben-Avraham. Statistics of cycles: how loopy is your network? *Journal of Physics A Mathematical General*, 38:4589–4595, May 2005.

[1514] Jianhua Ruan and Weixiong Zhang. Identification and evaluation of weak community structures in networks. In *AAAI2006*, 2006.

[1515] Y. Ruan, D. Fuhry, and S. Parthasarathy. Efficient Community Detection in Large Networks using Content and Links. *ArXiv e-prints*, December 2012.

[1516] P. Rusmevichientong, D. M. Pennock, S. Lawrence, and C. L. Giles. Methods for sampling pages uniformly from the World Wide Web. In *In AAAI Fall Symposium on Using Uncertainty Within Computation*, pages 121–128, 2001.

[1517] J. Ryland Williams, J. P. Bagrow, C. M. Danforth, and P. Sheridan Dodds. Text mixing shapes the anatomy of rank-frequency distributions: A modern Zipfian mechanics for natural language. *ArXiv e-prints*, September 2014.

[1518] J. Ryland Williams, P. R. Lessard, S. Desu, E. Clark, J. P. Bagrow, C. M. Danforth, and P. Sheridan Dodds. Zipf's law holds for phrases, not words. *ArXiv e-prints*, June 2014.

[1519] Marco Saerens and Francois Fouss. HITS is principal components analysis. In Jiming Liu, Pierre Morizet-Mahoudeaux, Andrzej Skowron, and Ning Zhong, editors, *Proceedings of the 2005 IEEE/WIC/ACM Joint International Conference on Web Intelligence and Intelligent Agent Technology (WI '05/IAT '05)*, pages 782–785, Compiègne, France, September 19-22, 2005. IEEE.

[1520] Rishiraj Saha Roy, M. Dastagiri Reddy, Niloy Ganguly, and Monojit Choudhury. Understanding the Linguistic Structure and Evolution of Web Search Queries. In *Proceedings of the 10th International Conference on the Evolution of Language*, Evolang X, pages 286–293, Singapore, 2014. World Scientific Publishing Co.

[1521] Mehran Sahami and Timothy D. Heilman. A web-based kernel function for measuring the similarity of short text snippets. In *WWW2006*, pages 377–386, 2006.

[1522] Ruslan Salakhutdinov, Andriy Mnih, and Geoffrey Hinton. Spectral clustering and transductive learning with multiple views. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[1523] Marta Sales-Pardo, Roger Guimera, Andre A. Moreira, and Luis A. Amaral. Extracting the hierarchical organization of complex systems. volume 104, pages 15224–15229, September 2007.

[1524] Vijay K Samalam. Preferential attachment alone is not sufficient to generate scale free random networks. *ArXiv 1202.1498*, February 2012.

[1525] Manoj Pratim Samanta and Shoudan Liang. Redundancies in large-scale protein interaction networks, 2003.

[1526] Adam Sanborn and Thomas Griffiths. Markov chain Monte Carlo with people. In J.C. Platt, D. Koller, Y. Singer, and S. Roweis, editors, *Advances in Neural Information Processing Systems 20*, pages 1265–1272. MIT Press, Cambridge, MA, 2008.

[1527] L. M. Sander, C. P. Warren, and I. M. Sokolov. Epidemics, disorder, and percolation. Technical Report cond-mat/0301394, Arxiv.org, January 21, 2003.

[1528] Mark Sanderson. Revisiting h measured on uk lis and ir academics. *J. Am. Soc. Inf. Sci. Technol.*, 59(7):1184–1190, 2008.

[1529] Y. Sano, K. Yamada, H. Watanabe, H. Takayasu, and M. Takayasu. Empirical analysis of collective human behavior for extraordinary events in blogosphere. *ArXiv e-prints*, July 2011.

[1530] Avik Sarkar, Paul H Garthwaite, and Anne DeRoeck. A Bayesian mixture model for term re-occurrence and burstiness. In *In The Ninth Conference on Computational Natural Language Learning (CoNLL)*, pages 48–55, Ann Arbor, Michigan, USA, 2005. Association for Computational Linguistics.

[1531] Purnamrita Sarkar and Andrew W. Moore. Dynamic social network analysis using latent space models. *SIGKDD-EN*, 7(2):31–40, 2005.

[1532] Nima Sarshar, P. Oscar Boykin, and Vwani Roychowdhury. Scalable percolation search in power law networks. Technical Report cond-mat/0406152, Arxiv.org, June 7, 2004.

[1533] Ramesh Sarukkai. Link prediction and path analysis using Markov chains. In *WWW2000*, 2000.

[1534] Hiroki Sayama and Jin Akaishi. Characterizing Interdisciplinarity of Researchers and Research Topics Using Web Search Engines. *ArXiv 1201.3592*, January 2012.

[1535] Satu Elisa Schaeffer. Stochastic online clustering for massive graphs. In *NIPS-WS2003A*, 2003.

[1536] Jeff Schneider. Link detection and searching for terrorist threat activity. In *IJCAI-WS2003A*, 2003.

[1537] Michael Schreiber. An empirical investigation of the g-index for 26 physicists in comparison with the h-index, the a-index, and the r-index. *Journal of the American Society for Information Science and Technology*, 59(9):1513–1522, July 2008.

[1538] A. Schubert and W. Glänzel. A systematic analysis of hirsch-type indices for journals. *Journal of Informetrics*, 1(3):179–184, July 2007.

[1539] N. Schwartz, R. Cohen, D. ben Avraham, A.-L. Barabási, and S. Havlin. Percolation in directed scale-free networks. *Phys. Rev. E*, 66(1):015104, Jul 2002.

[1540] John Scott. *Social Network Analysis: A Handbook*. Sage Publications, London, 1979.

[1541] John R. Seeley. The net of reciprocal influence. *Canadian Journal of Psychology*, 3(4):234–240, 1949.

[1542] Rituparna Sen and Mark H. Hansen. Predicting Web users' next access based on log data. *Journal of Computational and Graphical Statistics*, 12(1):143–155, March 2003.

[1543] Ted E. Senator. Link mining applications: Progress and challenges. *SIGKDD-EN*, 7(2):76–83, 2005.

[1544] Pierre P. Senellart and Vincent D. Blondel. Automatic discovery of similar words. In Michael W. Berry, editor, *A Comprehensive Survey of Text Mining*. Springer-Verlag, 2003.

[1545] M. Angeles Serrano, Ana Maguitman, Marian Boguna, Santo Fortunato, and Alessandro Vespignani. Decoding the structure of the WWW: Facts versus sampling biases. Technical Report cs.NI/0511035, Arxiv.org, 2006.

[1546] Vito D. P. Servedio, Guido Caldarelli, and Paolo Buttà. Vertex intrinsic fitness: How to produce arbitrary scale-free networks. *Physical Review E (Statistical, Nonlinear, and Soft Matter Physics)*, 70(5), 2004.

[1547] C. Seshadhri, A. Pinar, N. Durak, and T. G. Kolda. The importance of directed triangles with reciprocity: patterns and algorithms. *ArXiv e-prints*, February 2013.

[1548] Mukund Seshadri, Sridhar Machiraju, Ashwin Sridharan, Jean Bolot, Christos Faloutsos, and Jure Leskove. Mobile call graphs: beyond power-law and lognormal distributions. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 596–604, New York, NY, USA, 2008. ACM.

[1549] A. Seth and J. Zhang. A social network based approach to personalized recommendation of participatory media content. In *Int. Conf. on Weblogs and Social Media (ICWSM)*, Seattle, 2008.

[1550] Nishal Pradeepkumar Shah. Recent technological advances in natural language processing and artificial intelligence. *CoRR*, abs/1208.4079, 2012.

[1551] A. Shakery and C. Zhai. A probabilistic relevance propagation model for hypertext retrieval. In *CIKM2006*, 2006.

[1552] Cosma Rohilla Shalizi. CSSS 2000-2001 math review lectures: Probability, statistics and stochastic processes. Technical report, Santa Fe Institute Complex Systems Summer School, 2001. http://www.cscs.umich.edu/ crshalizi/prob-notes/.

[1553] Shi Shan. On the generalized Zipf distribution. Part I. *IPM*, 41(6):1369–1386, December 2005.

[1554] Ming-Sheng Shang, Linyuan Lü, Yi-Cheng Zhang, and Tao Zhou. Empirical analysis of web-based user-object bipartite networks. *EPL (Europhysics Letters)*, May 2010.

[1555] Benyah Shaparenko, Rich Caruana, Johannes Gehrke, and Thorsten Joachims. Identifying temporal patterns and key players in document collections. In *Proceedings of the IEEE ICDM 05' Workshop on Temporal Data Mining: Algorithms, Theory and Applications (TDM-05)*, pages 165–174, 2005.

[1556] Benyah Shaparenko and Thorsten Joachims. Information genealogy: uncovering the flow of ideas in non-hyperlinked document databases. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 619–628, New York, NY, USA, 2007. ACM Press.

[1557] Upendra Shardanand and Pattie Maes. Social information filtering: Algorithms for automating "word of mouth". In *Proceedings of the ACM/SIGCHI 1995 Conference on Human Factors in Computing Systems*, pages 210–217, Denver, Colorado, United States, 1995. ACM Press/Addison-Wesley Publishing Co.

[1558] B. G. Sharma, S. Agrawal, M. Sharma, D. P. Bisen, and R. Sharma. Econophysics: A Brief Review of Historical Development, Present Status and Future Trends. *ArXiv e-prints*, August 2011.

[1559] Dou Shen, Rong Pan, Jian-Tao Sun, Jeffrey Junfeng Pan, Kangheng Wu, Jie Yin, and Qiang Yang. Q^2c@ust: Our winning solution to query classification in KDDCUP 2005. *SIGKDD-EN*, 7(2):100–110, 2005.

[1560] Dou Shen, Jian-Tao Sun, Qiang Yang, and Zheng Chen. A comparison of implicit and explicit links for web page classification. In *WWW2006*, pages 643–650, 2006.

[1561] Nino Shervashidze, Pascal Schweitzer, Erik Jan van Leeuwen, Kurt Mehlhorn, and Karsten M. Borgwardt. Weisfeiler-lehman graph kernels. *J. Mach. Learn. Res.*, November 2011.

[1562] Jitesh Shetty and Jafar Adibi. Discovering important nodes through graph entropy - the case of Enron email database. In *KDD-WS2005A*, 2005.

[1563] Jianbo Shi and Jitendra Malik. Normalized cuts and image segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 22(8):888–905, 2000.

[1564] X. Shi, B. Tseng, and L. Adamic. Information Diffusion in Computer Science Citation Networks. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[1565] Xiaolin Shi, Lada A. Adamic, and Martin J. Strauss. Networks of strong ties. *Physica A: Statistical Mechanics and its Applications*, 378(1):33–47, May 2007.

[1566] Xiaolin Shi, Matthew Bonner, Lada A. Adamic, and Anna C. Gilbert. The very small world of the well-connected. In Peter Brusilovsky and Hugh C. Davis, editors, *Hypertext*, pages 61–70. ACM, 2008.

[1567] Xiaolin Shi, Belle Tseng, and Lada A. Adamic. Information diffusion in computer science citation networks. In *Conference on Information and Knowledge Management*, 2008.

[1568] Naoki Shibata, Yuya Kajikawa, and Katsumori Matsushima. Topological analysis of citation networks to discover the future core articles: Research articles. *J. Am. Soc. Inf. Sci. Technol.*, 58(6):872–882, 2007.

[1569] H.-J. Shin and B.-T. Zhang. Extracting topic words and clustering documents by probabilistic graphical models. In *KDD-WS2000A*, 2000.

[1570] John E. Shore and Rodney W. Johnson. Axiomatic derivation of the principle of maximum entropy and the principle of minium cross-entropy. *IEEE-TOIT*, 26(1):26–37, January 1980.

[1571] Jeff Shrager, Tad Hogg, and Bernardo A. Huberman. Observation of phase transitions in spreading activation networks. *Science*, 236:1092–1094, May 1987.

[1572] Xin Shuai, Alberto Pepe, and Johan Bollen. How the Scientific Community Reacts to Newly Submitted Preprints: Article Downloads, Twitter Mentions, and Citations. *ArXiv 1202.2461*, February 2012.

[1573] Ka Cheung Sia, Junghoo Cho, Yun Chi, and Belle L. Tseng. Efficient computation of personal aggregate queries on blogs. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 632–640, New York, NY, USA, 2008. ACM.

[1574] Antonis Sidiropoulos, Dimitrios Katsaros, and Yannis Manolopoulos. Generalized h-index for revealing latent facts in social networks of citations. In *Proceedings of LINKKDD 2007*. ACM, 2007.

[1575] Antonis Sidiropoulos, Dimitrios Katsaros, and Yannis Manolopoulos. Generalized hirsch h-index for disclosing latent facts in citation networks. *Scientometrics*, 72(2):253–280, August 2007.

[1576] Antonis Sidiropoulos and Yannis Manolopoulos. A new perspective to automatically rank scientific conferences using digital libraries. *IPM*, 41(2):289–312, March 2005.

[1577] Julian Sienkiewicz, Marcin Skowron, Geirgios Paltoglou, and Janusz A. Holyst. Entropy-growth-based model of emotionally charged online dialogues. *ArXiv 1201.5477*, January 2012.

[1578] Mariano Sigman and Guillermo A. Cecchi. Global organization of the Wordnet lexicon. *PNAS*, 99(3):1742–1747, February 5, 2002.

[1579] Z. Silagadze. Citations and the Zipf-Mandelbrot's law. *Complex Systems*, 11(487–499), 1997.

[1580] C. Silverstein, Monika Henzinger, H. Marais, and M. Moricz. Analysis of a very large AltaVista query log. *SIGIR Forum*, 33(1):6–12, 1999.

[1581] Matthew P. Simmons, Lada A. Adamic, and Eytan Adar. Memes Online: Extracted, Subtracted, Injected, and Recollected. *ICWSM-2011*, July 2011.

[1582] Herbert A. Simon. On a class of skew distribution functions. *Biometrika*, 42(4):425–440, December 1955.

[1583] Herbert A. Simon. *Models of Man*. Wiley, New York, 1957.

[1584] S. Sinha and U. Kovur. Uncovering the network structure of the world currency market: Cross-correlations in the fluctuations of daily exchange rates. *ArXiv e-prints*, May 2013.

[1585] G. Siudem and J. A. Hołyst. Diffusion and entropy production for multi-networks with fitness factors. *ArXiv e-prints*, March 2013.

[1586] Karthik Siva, Jim Tao, and Matilde Marcolli. Spin glass models of syntax and language evolution. *CoRR*, abs/1508.00504, 2015.

[1587] F. Slanina and Z. Konopasek. Eigenvector localization as a tool to study small communities in online social networks. *ArXiv 1105.5053*, May 2011.

[1588] Frantisek Slanina and Miroslav Kotrla. Random networks created by biological evolution. *Physical Review Letters E*, 62(5):6170–6177, November 2000.

[1589] Noam Slonim, Gurinder Singh Atwal, Gašper Tkačik, and William Bialek. Information-based clustering. *PNAS*, 102(51):18297–18302, December 20, 2005.

[1590] Henry Small. Co-citation in the scientific literature: A new measure of the relationship between two documents. *JASIS*, 24:265–269, 1973.

[1591] L. M. Smith, K. Lerman, C. Garcia-Cardona, A. G. Percus, and R. Ghosh. Spectral Clustering with Epidemic Diffusion. *ArXiv e-prints*, March 2013.

[1592] Noah A. Smith. Adversarial evaluation for models of natural language. *CoRR*, abs/1207.0245, 2012.

[1593] R. D. Smith. The Dynamics of Internet Traffic: Self-Similarity, Self-Organization, and Complex Phenomena. *ArXiv e-prints*, 0807(3374), July 2008.

[1594] Reginald D. Smith. Distinct word length frequencies: distributions and symbol entropies. *CoRR*, abs/1207.2334, 2012.

[1595] Mark D. Smucker and James Allan. Find-similar: Similarity browsing as a search tool. In *SIGIR2006*, pages 461–468, 2006.

[1596] Padhraic Smyth. Statistical modeling of graph and network data. In *IJCAI-WS2003B*, 2003.

[1597] M. Medeiros Soares, G. Corso, and L.S. Lucena. The network of syllables in Portuguese. *Physica A*, 355:678–684, 2005.

[1598] P. Sobkowicz and A. Sobkowicz. Hate networks revisited: time and user interface dependence study of user emotions in political forum. *ArXiv e-prints*, July 2011.

[1599] Ian Soboroff. Do TREC Web collections look like the Web? *SIGIR Forum*, 36(2):23–31, 2002.

[1600] Kobi Reiter Stephen Soderland and Oren Etzioni. Cross-lingual image search on the web. In *Cross Lingual Information Access 2007*, 2007.

[1601] R. V. Solé and L. F. Seoane. Ambiguity in language networks. *ArXiv e-prints*, February 2014.

[1602] Ricard V. Solé, Bernat Corominas Murtra, Sergi Valverde, and Luc Steels. Language networks: Their structure, function and evolution. Technical Report 05-12-042, Santa Fe Institute Working Paper, 2005.

[1603] Ricard V. Solé, Romualdo Pastor-Satorras, Eric D. Smith, and Thomas Kepler. A model of large-scale proteome evolution. Technical Report cond-mat/0207311, Arxiv.org, 2001.

[1604] Ricard V. Sole, Romualdo Pastor-Satorras, Eric D. Smith, and Thomas Kepler. A model of large-scale proteome evolution. *Advances in Complex Systems*, 1(8):43–54, 2002.

[1605] Ricard V. Solé and Sergi Valverde. Information theory of complex networks: On evolution and architectural constraints. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 189–207. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[1606] Sorin Solomon and Sergei Maslov. Pareto laws in financial autocatalytic/multiplicative stochastic systems. Technical Report cond-mat/0106144, Arxiv.org, 2000.

[1607] Sorin Solomon and Peter Richmond. Stability of Pareto-Zipf law in nonstationary economics. Technical Report cond-mat/0012479, Arxiv.org, 2001.

[1608] Narongrit Sombatsompop and Teerasak Markpin. Making an equality of ISI impact factors for different subject fields. *JASIST*, 56(7):676–683, May 2005.

[1609] Fei Song and W. Bruce Croft. A general language model for information retrieval. In *CIKM1999*, pages 316–321, 1999.

[1610] S. Soos and G. Kampis. Bio-inspired Methods for Dynamic Network Analysis in Science Mapping. *ArXiv e-prints*, 1101.3684, January 2011.

[1611] Didier Sornette and Rama Cont. Convergent multiplicative processes repelled from zero: Power laws and truncated power laws. *Journal of Physics I, France*, 7(cond-mat/9609074):431–444, 1997.

[1612] Wataru Souma, Yoshi Fujiwara, and Hideaki Aoyama. Small-world effects in wealth distribution. Technical Report cond-mat/0108482, Arxiv.org, 2001.

[1613] Amanda Spink, Bernard J. Jansen, Chris Blakely, and Sherry Koshman. A study of results overlap and uniqueness among major Web search engines. *IPM*, 42(5):1379–1391, September 2006.

[1614] Olaf Sporns and Rolf Kotter. Motifs in brain networks. *PLoS Biology*, 2(11):1910–1918, November 2004.

[1615] H. C. Spruit. The relative significance of the H-index. *ArXiv 1201.5476*, January 2012.

[1616] Padmini Srinivasan, F. Menczer, and G. Pant. A general evaluation framework for topical crawlers. *IR*, 8(3):417–447, January 2005.

[1617] Michele Starnini, Andrea Baronchelli, Alain Barrat, and Romualdo Pastor-Satorras. Random walks on temporal networks. *ArXiv 1203.2477*, March 2012.

[1618] R. Stata. Building Web-scale Web graphs from real data. In *FOCS-WS2002A*, 2002.

[1619] Dietrich Stauffer. A biased review of sociophysics. *CoRR*, abs/1207.6178, 2012.

[1620] Stefano Mossa and Marc Barthélémy and H. Eugene Stanley and Luis A. Nunes Amaral. Truncation of power law behaviour in "scale-free" network models due to information filtering. *PRL*, 88(13):138701, March 14, 2002.

[1621] J. H. Steffen and J. Hotchkiss. Experimental test of airplane boarding methods. *ArXiv 1108.5211*, August 2011.

[1622] Lucas Sterckx, Thomas Demeester, Johannes Deleu, and Chris Develder. Knowledge base population using semantic label propagation. *CoRR*, abs/1511.06219, 2015.

[1623] John A. Stewart. The poisson-lognormal model for bibliometric/scientometric distributions. *IPM*, 30(2):239–251, March-April 1994.

[1624] Mark Steyvers and Thomas L. Griffiths. Probabilistic topic models. To appear in T. Landauer, D. McNamara, S. Dennis, and W. Kintsch (eds), Latent Semantic Analysis: A Road to Meaning, 2006.

[1625] Mark Steyvers, Padhraic Smyth, Michal Rosen-Zvi, and Thomas Griffiths. Probabilistic author-topic models for information discovery. In *KDD2004*, pages 306–315, 2004.

[1626] Mark Steyvers and Joshua B. Tenenbaum. The large-scale structure of semantic networks: statistical analyses and a model for semantic growth, October 2001.

[1627] Mark Steyvers and Joshua B. Tenenbaum. The large-scale structure of semantic networks: Statistical analyses and a model of semantic growth. *Cognitive Science*, 29(1):41–78, 2005.

[1628] Lubomira Stoilova, Todd Holloway, Ben Markines, Ana Maguitman, and Filippo Menczer. GiveALink: Mining a semantic network of bookmarks for Web search and recommendation. In *KDD-WS2005A*, 2005.

[1629] Alexander Strehl, Joydeep Ghosh, and Raymond Mooney. Impact of similarity measures on Web-page clustering. In *AAAI-WS2000A*, pages 58–64, 2000.

[1630] Steven H. Strogatz. Exploring complex networks. *Nature*, 410(6826):268–276, March 15, 2001.

[1631] Steven H. Strogatz. Romanesque networks. *Nature*, 433:365–366, January 27, 2005.

[1632] Michael Strube and Simone Paolo Ponzetto. WikiRelate! computing semantic relatedness using wikipedia. In *AAAI2006*, 2006.

[1633] Michael P. H. Stumpf, Carsten Wiuf, and Robert M. May. Subnets of scale-free networks are not scale-free: Sampling properties of networks. *PNAS*, 102(12):4221–4224, March 22, 2005.

[1634] K. Subbian and P. Melville. Supervised Rank Aggregation for Predicting Influence in Networks. *ArXiv 1108.4801*, August 2011.

[1635] Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, and Shunsuke Uemura. Refinement of TF-IDF schemes for Web pages using their hyperlinked neighboring pages. In *HYPERTEXT '03: Proceedings of the fourteenth ACM conference on Hypertext and hypermedia*, pages 198–207, Nottingham, UK, 2003. ACM.

[1636] E. Sun, I. Rosenn, C. Marlow, and T. Lento. Gesundheit! Modeling Contagion through Facebook News Feed. In *3rd Int'l AAAI Conference on Weblogs and Social Media (ICWSM-09)*, 2009.

[1637] Jimeng Sun, Christos Faloutsos, Spiros Papadimitriou, and Philip S. Yu. Graphscope: parameter-free mining of large time-evolving graphs. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 687–696, New York, NY, USA, 2007. ACM Press.

[1638] Jimeng Sun, Huiming Qu, Deepayan Chakrabarti, and Christos Faloutsos. Relevance search and anomaly detection in bipartite graphs. *SIGKDD-EN*, 7(2):48–55, 2005.

[1639] Liang Sun, Shuiwang Ji, and Jieping Ye. Hypergraph spectral learning for multi-label classification. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 668–676, New York, NY, USA, 2008. ACM.

[1640] Peter Sunehag. Using edge-reinforced random walks on graphs to model text. In *NIPS-WS2005E*, 2005.

[1641] Latanya Sweeney. Privacy-enhanced linking. *SIGKDD-EN*, 7(2):72–75, 2005.

[1642] U. Syed and B. Taskar. Semi-Supervised Learning with Adversarially Missing Label Information. *NIPS*, dec 2010.

[1643] Gábor Szabó, Mikko Alava, and János Kertész. Clustering in complex networks. In Eli Ben-Naim, Hans Frauenfelder, and Zoltan Toroczkai, editors, *Complex Networks*, pages 139–162. Springer Berlin/Heidelberg, 2004. Lecture Notes in Physics - Volume 650.

[1644] Arthur D Szlam, Mauro Maggioni, and Ronald R Coifman. Regularization on graphs with function-adapted diffusion processes. *Journal of Machine Learning Research*, pages 1711–1739, Aug 2008.

[1645] Bosiljka Tadić. Access time of an adaptive random walk on the world wide Web. Technical Report cond-mat/0104029, Arxiv.org, 2001.

[1646] Bosiljka Tadić. Adaptive random walks on the class of Web graph. *The European Physical Journal B*, 23(2):221–228, September 2001.

[1647] Bosiljka Tadić. Dynamics of directed graphs: The World Wide Web. *Physica A*, 293(2):273–284, April 1, 2001.

[1648] Bosiljka Tadić. Temporal fractal structures: Origin of power-laws in the World Wide Web. Technical Report cond-mat/0112047, Arxiv.org, 2001.

[1649] Hiroya Takamura, Takashi Inui, and Manabu Okumura. Extracting semantic orientations of words using spin model. In *ACL '05: Proceedings of the 43rd Annual Meeting on Association for Computational Linguistics*, pages 133–140, Morristown, NJ, USA, 2005. Association for Computational Linguistics.

[1650] Partha Pratim Talukdar, Joseph Reisinger, Marius Pasca, Deepak Ravichandran, Rahul Bhagat, and Fernando Pereira. Weakly-supervised acquisition of labeled class instances using graph random walks. In *Proceedings of the 2008 Conference on Empirical Methods in Natural Language Processing*, pages 582–590, Honolulu, Hawaii, October 2008. Association for Computational Linguistics.

[1651] Tuomas Talvensaari, Ari Pirkola, Kalervo Järvelin, Martti Juhola, and Jorma Laurikkala. Focused web crawling in the acquisition of comparable corpora. *Inf. Retr.*, 11(5):427–445, 2008.

[1652] Ameet Talwalkar, Sanjiv Kumar, and Henry Rowley. Large-scale manifold learning. In *Computer Vision and Pattern Recognition, 2008. CVPR 2008. IEEE Conference on*, pages 1–8. IEEE, 2008.

[1653] C. Tan, L. Lee, and B. Pang. The effect of wording on message propagation: Topic- and author-controlled natural experiments on Twitter. *ArXiv e-prints*, May 2014.

[1654] Chenhao Tan, Lillian Lee, and Bo Pang. The effect of wording on message propagation: Topic- and author-controlled natural experiments on twitter. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 175–185. Association for Computational Linguistics, 2014.

[1655] Jiliang Tang, Yi Chang, Charu Aggarwal, and Huan Liu. A survey of signed network mining in social media. *arXiv preprint arXiv:1511.07569*, 2015.

[1656] Chayant Tantipathananandh, Tanya Berger-Wolf, and David Kempe. A framework for community identification in dynamic social networks. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 717–726, New York, NY, USA, 2007. ACM Press.

[1657] Ben Taskar, Pieter Abbeel, and Koller Daphne. Discriminative probabilistic models for relational data. In *Proceedings of the Eighteenth Annual Conference on Uncertainty in Artificial Intelligence (UAI '02)*, pages 485–492, San Francisco, California, USA, 2002. Morgan Kaufmann Publishers.

[1658] Linda Tauscher and Saul Greenberg. Revisitation patterns in World Wide Web navigation. In *Proceedings of the ACM/SIGCHI 1997 Conference on Human Factors in Computing Systems*, pages 399–406, Atlanta, Georgia, USA, 1997. ACM Press.

[1659] Vivek Tawde, Tim Oates, and Eric J. Glover. Generating Web graphs with embedded communities. In *FOCS-WS2004A*, pages 80–91, 2004.

[1660] Ilan Tchernowitz, Liron Yedidsion, and Roi Reichart. Effective greedy inference for graph-based non-projective dependency parsing. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*, pages 711–720, Austin, Texas, November 2016. Association for Computational Linguistics.

[1661] Jaime Teevan, Eytan Adar, Rosie Jones, and Michael Potts. History repeats itself: repeat queries in a major search engine's logs. In *SIGIR '07: Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval*, New York, NY, USA, 2007. ACM.

[1662] Joshua M. Temkin and Mark R. Gilder. Extraction of protein interaction information from unstructured text using a context-free grammar. *Bioinformatics*, 19(16):2046–2053, November 2003.

[1663] Simone Teufel and Marc Moens. Summarizing scientific articles: Experiments with relevance and rhetorical status. *CL*, 28(4), December 2002.

[1664] Hari P. Thadakamalla, Réka Albert, and Soundar R. T. Kumara. Search in weighted complex networks. *PRE*, 72(066128), December 2005.

[1665] M. Thelwall, L. Vaughan, and L. Björneborn. Webometrics. *Annual Review of Information Science Technology*, 39:81–135, 2005.

[1666] Mike Thelwall and Gareth Harries. The connection between the research of a university and counts of links to its Web pages: An investigation based upon a classification of the relationships of pages to the research of the host university. *JASIST*, 54(7):594–602, May 2003.

[1667] Mike Thelwall and Gareth Harries. Do the Web sites of higher rated scholars have significantly more online impact? *JASIST*, 55(2):149–159, January 15, 2004.

[1668] Mike Thelwall and Liz Price. Language evolution and the spread of ideas on the Web: A procedure for identifying emergent hybrid word family members. *JASIST*, 57(10):1326–1337, August 2006.

[1669] Mike Thelwall and Liwen Vaughan. Webometrics: An introduction to the special issue. *JASIST*, 55(14):1213–1215, December 2004.

[1670] Mike Thelwall and David Wilkinson. Graph structure in three national academic Webs: Power laws with anomolies. *JASIST*, 54(8):706–712, June 2003.

[1671] Mike Thelwall and David Wilkinson. Three target document range metrics for university Web sites. *JASIST*, 54(6):490–497, April 2003.

[1672] Mariët Theune, Ruud Koolen, Emiel Krahmer, and Sander Wubben. Does size matter – how much data is required to train a reg algorithm? In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*, pages 660–664, Portland, Oregon, USA, June 2011. Association for Computational Linguistics.

[1673] William Thies, Janelle Prevost, Tazeen Mahtab, Genevieve T. Cuevas, Saad Shakhshir, Alexandro Artola, Binh D. Vo, Yuliya Litvak, Sheldon Chan, Sid Henderson, Mark Halsey, Libby Ban, and Saman Amarsinghe. Searching the World Wide Web on low-connectivity communities. In *WWW2002*, 2002.

[1674] Matt Thomas, Bo Pang, and Lillian Lee. Get out the vote: Determining support or opposition from Congressional floor-debate transcripts. In *EMNLP2006*, 2006.

[1675] YongHong Tian, Zheng Mei, TieJun Huang, and Wen Gao. Incremental learning for interaction dynamics with the influence model. In *KDD-WS2003A*, 2003.

[1676] Yuanyuan Tian and Jignesh M. Patel. Tale: A tool for approximate large graph matching. In *The 24th International Conference on Data Engineering (ICDE)*, 2008.

[1677] Anastasios Tombros, Ian Ruthven, and Joemon M. Jose. How users assess Web pages for information seeking. *JASIST*, 56(4):327–344, February 15, 2005.

[1678] Junji Tomita, Hidekazu Nakawatase, and Megumi Ishii. Calculating similarity between texts using graph-based text representation model. In *CIKM2004*, pages 248–249, 2004.

[1679] John A. Tomlin. A new paradigm for ranking pages on the World Wide Web. In *WWW2003*, pages 350–355, 2003.

[1680] Hanghang Tong, Christos Faloutsos, and Yehuda Koren. Fast direction-aware proximity for graph mining. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 747–756, New York, NY, USA, 2007. ACM Press.

[1681] Hanghang Tong, Jingrui He, Zhen Wen, Ravi Konuru, and Ching-Yung Lin. Diversified ranking on large graphs: an optimization viewpoint. In *Proceedings of the 17th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 1028–1036. ACM, 2011.

[1682] Wei Tong and Rong Jin. Semi-supervised learning by mixed label propagation. In *AAAI 2007*, pages 651–656, 2007.

[1683] Kristina Toutanova, Christopher D. Manning, and Andrew Y. Ng. Learning random walk models for inducing word dependency distributions. In *ICML '04: Proceedings of the twenty-first international conference on Machine learning*, page 103, New York, NY, USA, 2004.

[1684] Kristina Toutanova, Christopher D Manning, and Andrew Y Ng. Learning random walk models for inducing word dependency distributions. In *Proceedings of the twenty-first international conference on Machine learning*, page 103. ACM, 2004.

[1685] Masashi Toyoda and Masaru Kitsuregawa. WebRelievo: A system for browsing and analyzing the evolution of related Web pages. In *WWW-WS2004A*, 2004.

[1686] V. A. Traag, R. Reinanda, and G. van Klinken. Structure of an elite co-occurrence network. *ArXiv e-prints*, September 2014.

[1687] A. L. Traud, E. D. Kelsic, P. J. Mucha, and M. A. Porter. Comparing Community Structure to Characteristics in Online Collegiate Social Networks. *ArXiv 0809.0690*, September 2008.

[1688] A. L. Traud, P. J. Mucha, and M. A. Porter. Social Structure of Facebook Networks. *ArXiv e-prints*, 1102.2166, February 2011.

[1689] Amanda L. Traud, Eric D. Kelsic, Peter J. Mucha, and Mason A. Porter. Community structure in online collegiate social networks. *ArXiv e-prints*, 0809(0690), 2008.

[1690] Jeffrey Travers and Stanley Milgram. An experimental study of the small world problem. *Sociometry*, 32(4):425–443, December 1969.

[1691] N. Tremblay and P. Borgnat. Multiscale Community Mining in Networks Using Spectral Graph Wavelets. *ArXiv e-prints*, December 2012.

[1692] Constantino Tsallis and Marcio P. de Albuquerque. Are citations of scientific papers a case of nonextensivity? *The European Physical Journal B*, 13(4):777–780, February 2000.

[1693] Panayiotis Tsaparas. Using non-linear dynamical systems for Web searching and ranking. In *FOCS-WS2002A*, 2002.

[1694] G. Tsatsaronis, I. Varlamis, and K. Nørvåg. SemanticRank: Ranking Keywords and Sentences Using Semantic Graphs. In *The 23rd International Conference on Computational Linguistics (COLING 2010)*, 2010.

[1695] Ah Chung Tsoi, Gianni Morini, Franco Scarselli, Markus Hagenbuchner, and Marco Maggini. Adaptive ranking of Web pages. In *WWW2003*, pages 356–365, 2003.

[1696] Joshua R. Tyler, Dennis M. Wilkinson, and Bernardo A. Huberman. Email as spectroscopy: Automated discovery of community structure within organizations. Technical report, Hewlitt-Packard, 2003.

[1697] Joshua R. Tyler, Dennis M. Wilkinson, and Bernardo A. Huberman. Email as spectroscopy: automated discovery of community structure within organizations. *Communities and technologies*, pages 81–96, 2003.

[1698] Peter Uetz, Loic Giot, Gerard Cagney, Traci A. Mansfield, Richard S. Judson, James R. Knight, Daniel Lockshon, Vaibhav Narayan, Maithreyan Srinivasan, Pascale Pochart, Alia Qureshi-Emili, Ying Li, Brian Godwin, Diana Conover, Theodore Kalbfleisch, Govindan Vijayadamodar, Meijia Yang, Mark Johnston, Stanley Fields, and Jonathan M. Rothberg. A comprehensive analysis of protein-protein interactions in *Saccharomyces cerevisiae*. *Nature*, 403(6770):623–627, February 10, 2000.

[1699] J. Ugander, L. Backstrom, and J. Kleinberg. Subgraph Frequencies: Mapping the Empirical and Extremal Geography of Large Graph Collections. *ArXiv e-prints*, April 2013.

[1700] Johan Ugander, Lars Backstrom, Cameron Marlow, and Jon Kleinberg. Structural diversity in social contagion. *Proceedings of the National Academy of Sciences*, 109(16):5962–5966, 2012.

[1701] Johan Ugander, Brian Karrer, Lars Backstrom, and Cameron Marlow. The Anatomy of the Facebook Social Graph. *ArXiv 1111.4503*, November 2011.

[1702] Matthew J. Urry and Peter Sollich. Random walk kernels and learning curves for gaussian process regression on random graphs. *Journal of Machine Learning Research*, 14, 2014.

[1703] Brian Uzzi. A social network's changing statistical properties and the quality of human innovation. *Journal of Physics A: Mathematical and Theoretical*, 41(22), 2008.

[1704] Brian Uzzi. A social network's changing statistical properties and the quality of human innovation. *Journal of Physics A: Mathematical and Theoretical*, 41(22):224023, 2008.

[1705] Brian Uzzi and Jarrett Spiro. Collaboration and creativity: The small world problem. *AJS*, Jan 2005.

[1706] Sergi Valverde, Ramon Ferrer i Cancho, and Ricard V. Solé. Scale-free networks from optimal design. Technical Report cond-mat/0204344, Arxiv.org, 2002.

[1707] Yves van Gennip, Blake Hunter, Raymond Ahn, Peter Elliott, Kyle Luh, Megan Halvorson, Shannon Reid, Matt Valasik, James Wo, George E. Tita, Andrea L. Bertozzi, and P. Jeffrey Brantingham. Community detection using spectral clustering on sparse geosocial data. *CoRR*, abs/1206.4969, 2012.

[1708] Sergei Vassilvitskii and Eric Brill. Using web-graph distance for relevance feedback in web search. In *SIGIR2006*, pages 147–153, 2006.

[1709] Liwen Vaughan. Visualizing linguistic and cultural differences using Web co-link data. *JASIST*, 57(9):1178–1193, July 2006.

[1710] Liwen Vaughan and Mike Thelwall. Search engine coverage bias: Evidence and possible causes. *IPM*, 40(4):693–707, July 2004.

[1711] Alexei Vázquez. Statistics of citation networks. Technical Report cond-mat/0105031, Arxiv.org, 2001.

[1712] Alexei Vázquez, A. Flammini, A. Maritan, and Alessandro Vespignani. Modeling of protein interaction networks. Technical Report cond-mat/0108043, Arxiv.org, 2001.

[1713] Alexei Vázquez, Romualdo Pastor-Satorras, and Alessandro Vespignani. Large-scale topological and dynamical properties of the internet. *PRE*, 65(6):066130, June 2002.

[1714] Alexei Vázqueza, Alessandro Flammini, Amos Maritan, and Alessandro Vespignani. Modeling of protein interaction networks. *ComPlexUs*, 1:38–44, 2002.

[1715] Olga Veksler. *Efficient Graph-Based Energy Minimization Methods in Computer Vision*. PhD thesis, Cornell University, 1999.

[1716] Olivier De Vel. Mining E-mail authorship. In *KDD-WS2000A*, 2000.

[1717] Anne Veling and Peter van der Weerd. Conceptual grouping in word co-occurrence networks. In *IJCAI1999*, pages 694–701, 1999.

[1718] G. Ver Steeg and A. Galstyan. Information-Theoretic Measures of Influence Based on Content Dynamics. *ArXiv e-prints*, August 2012.

[1719] Deepok Verma and Marina Meila. A comparison of spectral clustering algorithms. Technical Report 03-05-01, University of Washington Department of Computer Science, 2003.

[1720] Jean Véronis. HyperLex: Lexical cartography for information retrieval. *Computer Speech and Language*, 18(3):223–252, July 2004.

[1721] Jean-Philippe Vert and Minoru Kanehisa. Graph-driven features extraction from microarray data using diffusion kernels and kernel CCA. In *NIPS2002*, 2002.

[1722] Jean-Philippe Vert and Yoshihiro Yamanishi. Supervised graph inference. In *NIPS2004*, pages 1433–1440, 2004.

[1723] Alessandro Vespignani. Evolution and structure of the Internet. In *NIPS2005*, 2005.

[1724] M. P. Viana, J. L. B. Batista, and L. d. F. Costa. How Many Nodes are Effectively Accessed in Complex Networks? *ArXiv e-prints*, 1101.5379, January 2011.

[1725] P. Vincent-Lamarre, A. Blondin Massé, M. Lopes, M. Lord, O. Marcotte, and S. Harnad. The Latent Structure of Dictionaries. *ArXiv e-prints*, November 2014.

[1726] Peter Vinkler. Characterization of the impact of sets of scientific papers: The garfield (impact) factor. *JASIST*, 55(5):431–435, March 2004.

[1727] Satu Elisa Virtanen. Online methods for clustering the Web graph. In *WWW-WS2003A*, 2003.

[1728] S. Vitali, J. B. Glattfelder, and S. Battiston. The network of global corporate control. *ArXiv e-prints*, July 2011.

[1729] Konstantin Voevodski, Maria-Florina Balcan, Heiko Roglin, Shang-Hua Teng, and Yu Xia. Active Clustering of Biological Sequences. *JMLR*, January 2012.

[1730] David Vogel. Using generic corpora to learn domain-specific terminology. In *KDD-WS2003A*, 2003.

[1731] David Vogel, Steffen Bickel, Peter Haider, Rolf Schimpfky, Peter Siemen, Steve Bridges, and Tobias Scheffer. Classifying search engine queries using the Web as background knowledge. *SIGKDD-EN*, 7(2):117–122, 2005.

[1732] Dmitri Volchenkov and Philippe Blanchard. An algorithm generating scale free graphs. Technical Report cond-mat/0204126, Arxiv.org, 2002.

[1733] Yana Volkovich, Nelly Litvak, and Debora Donato. Determining factors behind the pagerank. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[1734] Ulrike von Luxburg. A tutorial on spectral clustering. *Statistics and Computing*, 17(4):395–416, 2007.

[1735] Ulrike von Luxburg and Shai Ben-David. Towards a statistical theory of clustering. In *NIPS-WS2005G*, 2005.

[1736] Milovan Šuvakov and Bosiljka Tadić. Topology of cell-aggregated planar graphs. In Vassil N. Alexandrov, G. Dick van Albada, Peter M. A. Sloot, and Jack Dongarra, editors, *Proceedings of the Sixth International Conference on Computational Science (ICCS '06)*, volume 3993 of *Lecture Notes in Computer Science*, pages 1098–1105, Reading, UK, May 28-31, 2006. Springer.

[1737] Andreas Wagner. The yeast protein interaction network evolves rapidly and contains few redundant duplicate genes. *Molecular Biology and Evolution*, 18(7):1283–1292, July 2001.

[1738] Andreas Wagner. The connectivity of large genetic networks: Design, history, or mere chemistry? Technical report, Working Papers of Santa Fe Institute, 03-11-062, 2003.

[1739] Andreas Wagner and David A. Fell. The small world inside large metabolic networks. *Proceedings of the Royal Society of London B*, 268(1478):1803–1810, September 7, 2001.

[1740] Daniel David Walker and Eric K. Ringger. Model-based document clustering with a collapsed gibbs sampler. In *KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 704–712, New York, NY, USA, 2008. ACM.

[1741] Jill Walker. Links and power: The political economy of linking on the Web. In *Proceedings of the Thirteenth ACM Conference on Hypertext and Hypermedia*, 2002.

[1742] M. L. Wallace, V. Larivière, and Y. Gingras. A small world of citations? The influence of collaboration networks on citation practices. *ArXiv e-prints*, July 2011.

[1743] Toby Walsh. Search in a small world. In *IJCAI1999*, pages 1172–1177, 1999.

[1744] Toby Walsh. Search on high degree graphs. In *IJCAI2001*, pages 266–274, 2001.

[1745] L. Waltman and N. J. van Eck. The inconsistency of the h-index. *ArXiv 1108.3901*, August 2011.

[1746] Ludo Waltman and Michael Schreiber. On the calculation of percentile-based bibliometric indicators. *CoRR*, abs/1205.0646, 2012.

[1747] Dingding Wang and Tao Li. Weighted consensus multi-document summarization. *Inf. Process. Manage.*, May 2012.

[1748] E. Wang, D. Liu, J. Silva, D. Dunson, and L. Carin. Joint Analysis of Time-Evolving Binary Matrices and Associated Documents. In *Neural and Information Processing Systems (NIPS)*, 2010.

[1749] Fei Wang and Changshui Zhang. Label propagation through linear neighborhoods. In *ICML2006*, pages 985–992, 2006.

[1750] Jun Wang and Shih-Fu Chuang. Semi-supervised learning using greedy max-cut. *Journal of Machine Learning Research*, 14, 2014.

[1751] Jun Wang, Tony Jebara, and Shih-Fu Chang. Graph transduction via alternating minimization. In *ICML '08: Proceedings of the 25th international conference on Machine learning*, pages 1144–1151, New York, NY, USA, 2008. ACM.

[1752] Mengqiu Wang and Christopher D Manning. Cross-lingual pseudo-projected expectation regularization for weakly supervised learning. *Transactions of the Association for Computational Linguistics*, 2:55–66, 2014.

[1753] Xuanhui Wang, Azadeh Shakery, and Tao Tao. Dirichlet PageRank. In *SIGIR2005*, pages 661–662, 2005.

[1754] Xuanhui Wang, Tao Tao, Jian-Tao Sun, Azadeh Shakery, and Chengxiang Zhai. Dirichletrank: Solving the zero-one gap problem of pagerank. *ACM Trans. Inf. Syst.*, 26(2):1–29, 2008.

[1755] Xuanhui Wang, ChengXiang Zhai, Xiao Hu, and Richard Sproat. Mining correlated bursty topic patterns from coordinated text streams. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 784–793, New York, NY, USA, 2007. ACM.

[1756] Xuerui Wang and Andrew McCallum. Topics over time: A non-Markov continuous-time model of topical trends. In *KDD2006*, pages 423–433, 2006.

[1757] Xuerui Wang, Natasha Mohanty, and Andrew McCallum. Group and topic discovery from relations and text. In *KDD-WS2005A*, pages 28–35, 2005.

[1758] Xuerui Wang, Natasha Mohanty, and Andrew McCallum. Group and topic discovery from relations and their attributes. In *NIPS2005*, 2005.

[1759] Yang Wang, An Zeng, Zengru Di, and Ying Fan. Spectral coarse graining for random walk in bipartite networks. Technical Report arXiv:1209.1028, Sep 2012. Comments: 7 pages, 3 figures.

[1760] Yitong Wang and Masaru Kitsuregawa. Evaluating contents-link coupled Web page clustering for Web search results. In *CIKM2002*, pages 499–506, 2002.

[1761] C. P. Warren, L. M. Sander, and I. M. Sokolov. Geography in a scale-free network model. *PRE*, 66:056105, 2002.

[1762] S. Wasserman and P. Pattison. Logit models and logistic regression for social networks: An introduction to Markov graphs and p*. *Psychometrika*, 61:401–425, 1996.

[1763] Stanley Wasserman and Katherine Faust. *Social Network Analysis: Methods and Applications*. Cambridge University Press, Cambridge, United Kingdom, 1994.

[1764] Duncan J. Watts. *Small Worlds*. Princeton University Press, Princeton, NJ, 1999.

[1765] Duncan J. Watts. A simple model of global cascades on random networks. *PNAS*, 99:5766–5771, 2002.

[1766] Duncan J. Watts. *Six Degrees: The Science of a Connected Age*. Norton, 2003.

[1767] Duncan J. Watts. The "new" science of networks. *AROS*, 30:243–270, 2004.

[1768] Duncan J. Watts and Peter Sheridan Dodds. Influentials, networks, and public opinion formation. *Journal of Consumer Research*, 34(4):441–458, 2007.

[1769] Duncan J. Watts and Peter Sheridan Doddsand Mark E. J. Newman. Identity and search in social networks. *Science*, 296(5571):1302–1305, May 17, 2002.

[1770] Duncan J. Watts and Steven H. Strogatz. Collective dynamics of small-world networks. *Nature*, 393(6684):440–442, June 4, 1998.

[1771] Michaël Charles Waumans and Hugues Bersini. Genealogical trees of scientific papers. *PloS one*, 11(3):e0150588, 2016.

[1772] Martin Weigt and Alexander K. Hartmann. The number of guards needed by a museum: A phase transition in vertex covering of random graphs. *PRL*, 84(26):6118–6121, June 26, 2000.

[1773] Z. Weihua, Z. Zhongzhi, G. Jihong, and Z. Shuigeng. An evolutionary method for finding communities in bipartite networks. *ArXiv e-prints*, 1011.3315, November 2010.

[1774] Weimao Ke. A fitness model for scholarly impact analysis. *CoRR*, abs/1205.0540, 2012.

[1775] Gary Weiss, Maytal Saar-Tschansky, and Bianca Zadrozny. Report on UBDM-05: Workshop on utility-based data mining. *SIGKDD-EN*, 7(2):145–147, 2005.

[1776] Ron Weiss, Bienvenido Vélez, and Mark A. Sheldon. HyPursuit: A hierarchical network search engine that exploits content-link hypertext clustering. In *Proceedings of the Seventh ACM Conference on Hypertext*, pages 180–193, Bethesda, Maryland, United States, 1996. ACM Press.

[1777] Ji-Rong Wen, Jian-Yun Nie, and Hong-Jiang Zhang. Clustering user queries of a search engine. In *WWW2001*, pages 162–168, 2001.

[1778] R. West, H. S. Paskov, J. Leskovec, and C. Potts. Exploiting Social Network Structure for Person-to-Person Sentiment Analysis. *ArXiv e-prints*, September 2014.

[1779] J. Weston, S. Chopra, and A. Bordes. Memory Networks. *ArXiv e-prints*, October 2014.

[1780] Jason Weston, Rui Kuang, Christina Leslie, and William Stafford Noble. Protein ranking by semi-supervised network propagation. *BMC Bioinformatics*, 7(Suppl 1):S10, March 20, 2006.

[1781] D. R. White and Mark E. J. Newman. Fast approximation algorithms for finding node-independent paths in networks, 2001.

[1782] Douglas R. White and Michael Houseman. The navigability of strong ties: Small worlds, tie strength, and network topology. *Complexity*, 8(1):72–81, 2002.

[1783] H. White and K. McCain. Bibliometrics. *Annual Review of Information Science and Technology*, pages 119–186, 1989.

[1784] Harrison C. White. Search parameters for the small world problem. *Social Forces*, 49(2):259–264, December 1970.

[1785] Scott White and Padhraic Smyth. Algorithms for estimating relative importance in networks. In *KDD2003*, pages 266–275, 2003.

[1786] John Wicks and Amy Greenwald. Parallelizing the computation of pagerank. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[1787] Allen Wilhite. Bilateral trade and 'small-world' networks. *Comput. Econ.*, 18(1):49–64, 2001.

[1788] Jake Ryland Williams, James P Bagrow, Andrew J Reagan, Sharon E Alajajian, Christopher M Danforth, and Peter Sheridan Dodds. Selection models of language production support informed text partitioning: an intuitive and practical, bag-of-phrases framework for text analysis. *arXiv preprint arXiv:1601.07969*, 2016.

[1789] Richard J. Williams and Neo D. Martinez. Simple rules yield complex food webs. *Nature*, 404(6774):180–182, March 9, 2000.

[1790] Richard J. Williams, Neo D. Martinez, Eric L. Berlow, Jennifer A. Dunne, and Albert-László Barabási. Two degrees of separation in complex food webs, 2001.

[1791] Marcella Wilson and Charles Nicholas. Topological analysis of an online social network for older adults. In *Proceedings of CIKM 2008 Workshop on Search in Social Media (SSM 2008)*, Napa Valley, California, 2008.

[1792] Carsten Wiuf, Markus Brameier, Oskar Hagberg, and Michael P. H. Stumpf. A likelihood approach to analysis of network data. *PNAS*, 103(20):7566–7570, May 16, 2006.

[1793] Steven Wooding, Kate Wilcox-Jay, Grant Lewison, and Jonathan Grant. Co-author inclusion: A novel recursive algorithmic method for dealing with homonyms in bibliometric analysis. *Scientometrics*, 66(1):11–21, December 2005.

[1794] Paul Wouters and Repke de Vries. Formally citing the Web. *JASIST*, 55(14):1250–1260, December 2004.

[1795] Fang Wu and Bernardo A. Huberman. Finding communities in linear time: A physics approach. Technical Report cond-mat/0310600, Arxiv.org, 2003.

[1796] Fang Wu and Bernardo A. Huberman. Novelty and collective attention. November 2007.

[1797] Fang Wu and Bernardo A. Huberman. Novelty and collective attention. *Proceedings of the National Academy of Sciences*, 104(45):17599–17601, 2007.

[1798] Kuo-Jui Wu, Meng-Chang Chen, and Yeali Sun. Automatic topics discovery from hyperlinked documents. *IPM*, 40(2):239–255, March 2004.

[1799] Lingfei Wu and Jiang Zhang. The Flow Structure on the WWW. *ArXiv 1110.6097*, October 2011.

[1800] Ye Wu, Changsong Zhou, Jinghua Xiao, Jrgen Kurths, and Hans Joachim Schellnhuber. Evidence for a bimodal distribution in human communication. *Proceedings of the National Academy of Sciences*, 107(44):18803–18808, 2010.

[1801] Holger Wunsch. Exploiting graph structure for accelerating the calculation of shortest paths in wordnets. In *Proceedings of the 22nd International Conference on Computational Linguistics (Coling 2008)*, pages 1001–1008, Manchester, UK, August 2008. Coling 2008 Organizing Committee.

[1802] N. Xi, Z.-K. Zhang, and Y.-C. Zhang. Cultural evolution and personalization. *ArXiv e-prints*, December 2012.

[1803] Han Xiao, Minlie Huang, Yu Hao, and Xiaoyan Zhu. Transa: An adaptive approach for knowledge graph embedding. *CoRR*, abs/1509.05490, 2015.

[1804] Han Xiao, Minlie Huang, Yu Hao, and Xiaoyan Zhu. Transg : A generative mixture model for knowledge graph embedding. *CoRR*, abs/1509.05488, 2015.

[1805] Lin Xiao, Jun Sun, and Stephen Boyd. A duality view of spectral methods for dimensionality reduction. In *ICML2006*, pages 1041–1048, 2006.

[1806] Xiaodong Shi and Christopher C. Yang. Mining related queries from web search engine query logs using an improved association rule mining model. *J. Am. Soc. Inf. Sci. Technol.*, 58(12):1871–1883, 2007.

[1807] J. Xie and B. K. Szymanski. LabelRank: A Stabilized Label Propagation Algorithm for Community Detection in Networks. *ArXiv e-prints*, March 2013.

[1808] Jierui Xie and Boleslaw K. Szymanski. Towards linear time overlapping community detection in social networks. *CoRR*, abs/1202.2465, 2012.

[1809] Wenting Xiong and Diane Litman. Automatically predicting peer-review helpfulness. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*, pages 502–507, Portland, Oregon, USA, June 2011. Association for Computational Linguistics.

[1810] K. S. Xu, M. Kliger, Y. Chen, P. J. Woolf, and A. O. Hero, III. Revealing social networks of spammers through spectral clustering. *ArXiv e-prints*, April 2013.

[1811] Xiaowei Xu, Nurcan Yuruk, Zhidan Feng, and Thomas A. J. Schweiger. SCAN: a structural clustering algorithm for networks. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 824–833, New York, NY, USA, 2007. ACM Press.

[1812] Gui-Rong Xue, Qiang Yang, Hua-Jun Zeng, Yong Yu, and Zheng Chen. Exploiting the hierarchical structure for link analysis. In *SIGIR2005*, pages 194–201, 2005.

[1813] Gui-Rong Xue, Hua-Jun Zeng, Zheng Chen, Wei-Ying Ma, HongJiang Zhang, and Chao-Jun Lu. Implicit link analysis for small Web search. In *SIGIR2003*, pages 56–63, 2003.

[1814] Rui Yan, Mirella Lapata, and Xiaoming Li. Tweet recommendation with graph co-ranking. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics: Long Papers - Volume 1*, ACL '12, pages 516–525, Stroudsburg, PA, USA, 2012. Association for Computational Linguistics.

[1815] Rui Yan, Mirella Lapata, and Xiaoming Li. Tweet recommendation with graph co-ranking. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics: Long Papers-Volume 1*, pages 516–525. Association for Computational Linguistics, 2012.

[1816] Xifeng Yan and Jiawei Han. CloseGraph: Mining closed frequent graph patterns. In *KDD2003*, pages 286–295, 2003.

[1817] Xifeng Yan, Philip S. Yu, and Jiawei Han. Graph indexing: A frequent structure-based approach. In *SIGMOD2004*, pages 335–346, 2004.

[1818] Xifeng Yan, Philip S. Yu, and Jiawei Han. Substructure similarity search in graph databases. In *SIGMOD2005*, pages 766–777, 2005.

[1819] K. Yancey and M. Yancey. Bipartite Communities. *ArXiv e-prints*, December 2014.

[1820] Bo Yang, W.K. Cheung, and Jiming Liu. Community mining from signed social networks. *Knowledge and Data Engineering, IEEE Transactions on*, 19(10):1333–1348, Oct 2007.

[1821] Christopher C. Yang and Xiaodong Shi. Discovering event evolution graphs from newswires. In *WWW2006*, pages 945–946, New York, NY, USA, 2006. ACM.

[1822] Jaewon Yang and Jure Leskovec. Structure and overlaps of communities in networks. *CoRR*, abs/1205.6228, 2012.

[1823] Jaewon Yang and Jure Leskovec. Overlapping community detection at scale: A nonnegative matrix factorization approach. In *Proceedings of the Sixth ACM International Conference on Web Search and Data Mining*, WSDM '13, pages 587–596, New York, NY, USA, 2013. ACM.

[1824] L. Yang, D. Ji, G. Zhu, Y. Nie, and G. Xiao. Document re-ranking using cluster validation and label propagation. In *CIKM2006*, 2006.

[1825] Zaihan Yang, Liangjie Hong, and Brian Davison. Topic-driven Multi-type Citation Network Analysis. *RIAO 2010*, April 2010.

[1826] Zhilin Yang, William W Cohen, and Ruslan Salakhutdinov. Revisiting semi-supervised learning with graph embeddings. *arXiv preprint arXiv:1603.08861*, 2016.

[1827] Taha Yasseri, András Kornai, and János Kertész. A practical approach to language complexity: a Wikipedia case study. *ArXiv 1204.2765*, April 2012.

[1828] Taha Yasseri, Robert Sumi, András Rung, András Kornai, and János Kertész. Dynamics of conflicts in Wikipedia. *ArXiv 1202.3643*, February 2012.

[1829] Jieping Ye. Generalized low rank approximations of matrices. *ML*, 61(1-3):167–191, November 2005.

[1830] Jonathan S. Yedidia, William T. Freeman, and Yair Weiss. Understanding belief propagation and its generalizations. *Exploring artificial intelligence in the new millennium*, pages 239–269, 2003.

[1831] Wen-tau Yih, Ming-Wei Chang, Xiaodong He, and Jianfeng Gao. Semantic parsing via staged query graph generation: Question answering with knowledge base. In *Association for Computational Linguistics (ACL)*, 2015.

[1832] Illhoi Yoo, Xiaohua Hu, and Il-Yeol Song. Integration of semantic-based bipartite graph representation and mutual refinement strategy for biomedical literature clustering. In *KDD2006*, pages 791–796, 2006.

[1833] Soon-Hyung Yook, Hawoong Jeong, and Albert-László Barabási. Modeling the internet's large-scale topology. Technical Report cond-mat/0107417, Arxiv.org, 2001.

[1834] Soon-Hyung Yook, Hawoong Jeong, Albert-László Barabási, and Yuhai Tu. Weighted evolving networks. *PRL*, 86(25):5835–5838, June 18, 2001.

[1835] Yookyung Jo and Carl Lagoze and C. Lee Giles. Detecting research topics via the correlation between graphs and texts. In *KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 370–379, New York, NY, USA, 2007. ACM Press.

[1836] Yeohoon Yoon, Choong-Nyoung Seon, Songwook Lee, and Jungyun Seo. Unsupervised word sense disambiguation for korean through the acyclic weighted digraph using corpus and dictionary. *Information Processing and Management: an International Journal* , 42(3):710–722, 2006.

[1837] Hyejin Youn, Logan Sutton, Eric Smith, Christopher Moore, Jon F. Wilkins, Ian Maddieson, William Croft, and Tanmoy Bhattacharya. On the universal structure of human lexical semantics, april 2015.

[1838] H. Peyton Young. Condorcet's theory of voting. *American Political Science Review*, 82(4):1231–1244, December 1988.

[1839] H. Peyton Young. The diffusion of innovations in social networks, 2002.

[1840] Stephen Young and Ed Scheinerman. Random dot product graph models for social networks. In *Workshop On Algorithms And Models For The Web-Graph (WAW2007)*, 2007.

[1841] Clement Yu, Weiyi Meng, Wensheng Wu, and King-Lup Liu. Efficient and effective metasearch for text databases incorporating linkages among documents. In *SIGMOD2001*, 2001.

[1842] Dian Yu and Heng Ji. Unsupervised person slot filling based on graph mining. 2016.

[1843] Deniz Yuret. Fastsubs: An efficient admissible algorithm for finding the most likely lexical substitutes using a statistical language model. *CoRR*, abs/1205.5407, 2012.

[1844] Osmar R. Zaiane, Jiyang Chen, and Randy Goebel. Dbconnect: mining research community on dblp data. In *WebKDD/SNA-KDD '07: Proceedings of the 9th WebKDD and 1st SNA-KDD 2007 workshop on Web mining and social network analysis*, pages 74–81, New York, NY, USA, 2007. ACM.

[1845] D. H. Zanette. Network motifs in music sequences. *ArXiv 1010.6091*, October 2010.

[1846] Damian H. Zanette. Critical behavior of propagation on small-world networks. *PRE*, 64(5):050901, November 2001.

[1847] Damian H. Zanette. Criticality of rumor propagation on small-world networks. Technical Report cond-mat/0109049, Arxiv.org, 2001.

[1848] Damian H. Zanette. Dynamics of rumor propagation on small-world networks. *PRE*, 65(4):041908, April 2002.

[1849] Damian H. Zanette and Marcelo Kuperman. Effects of immunization in small-world epidemics. *Physica A*, 309(4):445–452, June 15, 2002.

[1850] Damian H. Zanette and Susanna C. Manrubia. Vertical transmission of culture and the distribution of family names. *Physica A*, 295(1):1–8, June 1, 2001.

[1851] Lenka Zdeborová and Marc Mézard. The number of matchings in random graphs. *Journal of Statistical Mechanics*, page P05003, 2006.

[1852] Nouradine Zekri and Jean-Pierre Clerc. Statistical and dynamical study of disease propagation in a small world network. *PRE*, 64(5):056116, November 2001.

[1853] Hongyuan Zha, Xiaofeng He, Chris Ding, Horst Simon, and Ming Gu. Bipartite graph partitioning and data clustering. In *CIKM2001*, pages 25–32, 2001.

[1854] Hongyuan Zha and Xiang Ji. Correlating multilingual documents via bipartite graph modeling. In *SIGIR2002*, pages 443–444, 2002.

[1855] Benyu Zhang, Hua Li, Yi Liu, Let Ji, Wensi Xi, Weiguo Fan, Zheng Chen, and Wei-Ying Ma. Improving Web search results using affinity graph. In *SIGIR2005*, pages 504–511, 2005.

[1856] Dell Zhang and Yisheng Dong. An efficient algorithm to rank Web resources. In *WWW2000*, 2000.

[1857] Hui Zhang, Ashish Goel, Ramesh Govindan, Kahn Mason, and Benjamin Van Roy. Making eigenvector-based reputation systems robust to collusion. In *FOCS-WS2004A*, pages 92–104, 2004.

[1858] Hui Zhang, Asish Goel, and Ramesh Govindan. Using the small-world model to improve freenet performance. In *Proceedings of the Twenty-First Annual Joint Conference of the IEEE Computer and Communications Societies (Infocom '02)*, 2002.

[1859] Jun Zhang and Mark S. Ackerman. Searching for expertise in social networks: A simulation of potential strategies. In *Proceedings of the 2005 International ACM SIGGROUP conference on Supporting Group Work (GROUP '05)*, pages 71–80, Sanibel Island, Florida, USA, 2005. ACM.

[1860] Jun Zhang and Marshall Van Alstyne. Support social network-based knowledge sharing. In *Proceedings of the North American Association for Computational Social and Organizational Science (NAACSOS '04)*, Pittsburgh, Pennsylvania, USA, June 27-29, 2004.

[1861] Tong Zhang and Rie K. Ando. Graph based semi-supervised learning and spectral kernel design. Technical Report RC23713, IBM T. J. Watson Research Center, 2005.

[1862] Tong Zhang and Rie Kubota Ando. Analysis of spectral kernel design based semi-supervised learning. In *NIPS2005*, 2005.

[1863] Xinhua Zhang and Wee Sun Lee. Hyperparameter learning for graph based semi-supervised learning algorithms. In *NIPS2006*, 2006.

[1864] Y. Zhang, S. Zhou, J. Guan, and S. Zhou. Rumor spreading in gaming social networks. *ArXiv e-prints*, 1102.1487, February 2011.

[1865] Y.-C. Zhang, M. Medo, J. Ren, T. Zhou, T. Li, and F. Yang. Recommendation model based on opinion diffusion. *EPL (Europhysics Letters)*, 80(6):68003 (5pp), 2007.

[1866] Z. Zhang, T. Shan, and G. Chen. Random walks on weighted networks. *ArXiv e-prints*, 87(1):012112, January 2013.

[1867] Z.-Y. Zhang. Semi-Supervised Community Structure Detection in Social Networks Based on Matrix De-noising. *ArXiv e-prints*, October 2012.

[1868] D. Zhao and A. Strotmann. Can citation analysis of web publications better detect research fronts? *Journal of the American Society for Information Science and Technology.*, 58(9):1285–1302, 2007.

[1869] X. Zhao, A. Sala, H. Zheng, and B. Y. Zhao. Fast and Scalable Analysis of Massive Social Graphs. *ArXiv e-prints*, July 2011.

[1870] Zheng Zhao and Huan Liu. Spectral feature selection for supervised and unsupervised learning. In *Proceedings of the Twenty-fourth International Conference on Machine Learning (ICML '07)*, 2007.

[1871] B. Zheng, D. Li, G. Chen, W. Du, and J. Wang. Ranking the Importance of Nodes of Complex Networks by the Equivalence Classes Approach. *ArXiv e-prints*, November 2012.

[1872] B.-J. Zheng, J.-M. Wang, G.-S. Chen, J. Jiang, and X.-J. Shen. Hidden Tree Structure is a Key to the Emergence of Scaling in the World Wide Web. *Chinese Physics Letters*, 28(1):018901, January 2011.

[1873] N. Zhenqiang Gong, W. Xu, and D. Song. Reciprocity in Social Networks: Measurements, Predictions, and Implications. *ArXiv e-prints*, February 2013.

[1874] D. Zhou, J. Gao, H. E. Stanley, and S. Havlin. Percolation of Partially Interdependent Scale-free Networks. *ArXiv e-prints*, June 2012.

[1875] Dengyong Zhou. Spectral clustering and transductive inference for graph data. In *NIPS-WS2005F*, 2005.

[1876] Dengyong Zhou, Olivier Bousquet, Thomas Navin Lal, Jason Weston, and Bernhard Schölkopf. Learning with local and global consistency. Technical Report MPI no. 112, Max Planck Institute for Biological Cybernetics, Tübingen, Germany, June 2003.

[1877] Dengyong Zhou, Jiayuan Huang, and Bernhard Schölkopf. Beyond pairwise classification and clustering using hypergraphs. In *NIPS-WS2005C*, 2005.

[1878] Dengyong Zhou, Jiayuan Huang, and Bernhard Schölkopf. Learning from labeled and unlabeled data on a directed graph. In *ICML2005*, 2005.

[1879] Dengyong Zhou, Jiayuan Huang, and Bernhard Schölkopf. Learning with hypergraphs: Clustering, classification, and embedding. In *NIPS2006*, 2006.

[1880] Dengyong Zhou, Bernhard Schölkopf, and Thomas Hofmann. Semi-supervised learning on directed graphs. In *NIPS2005*, 2005.

[1881] Dengyong Zhou, Jason Weston, Arthur Gretton, Olivier Bousquet, and Bernhard Schölkopf. Ranking on data manifolds. Technical Report 113, Max Planck Institute for Biological Cybernetics, June 2003.

[1882] Tong Zhou, J. M. Carlson, and John Doyle. Mutation, specialization, and hypersensitivity in highly optimized tolerance. *PNAS*, 99(4):2049–2054, February 2002.

[1883] Yan-Bo Zhou, Linyuan Lü, and Menghui Li. Quantifying the influence of scientists and their publications: Distinguish prestige from popularity. *Arxiv 1109.1186*, September 2011.

[1884] Yanzan Zhou, Xin Jin, and Bamshad Mobasher. A recommendation model based on latent principal factors in Web navigation data. In *WWW-WS2004A*, 2004.

[1885] Han Zhu, Xin-Ran Wang, and Jian-Yang Zhu. The effect of aging on network structure. *PRE*, 68:056121, 2003.

[1886] Jerry Zhu, John Lafferty, and Zoubin Ghahramani. Combining active learning and semi-supervised learning using Gaussian fields and harmonic functions. In *ICML-WS2003B*, 2003.

[1887] Jianhan Zhu, Jun Hong, and John G. Hughes. PageCluster: Mining conceptual link hierarchies from Web log files for adaptive Web site navigation. *ACM-TOIT*, 4(2):185–208, May 2004.

[1888] Xiaojin Zhu. Learning from labeled and unlabeled data with Gaussian random fields, April 18, 2003. Thesis Proposal.

[1889] Xiaojin Zhu. *Semi-Supervised Learning with Graphs*. PhD thesis, Carnegie Mellon University, May 2005. Technical Report No. CMU-LTI-05-192.

[1890] Xiaojin Zhu. Semi-supervised learning literature survey. Technical Report TR 1530, Carnegie Mellon University Department of Computer Sciences, August 21, 2006.

[1891] Xiaojin Zhu. Semi-supervised learning tutorial. In *International Conference on Machine Learning (ICML) 2007*, pages 1–135, 2007.

[1892] Xiaojin Zhu. Persistent homology: An introduction and a new text representation for natural language processing. In *Proceedings of the Twenty-Third international joint conference on Artificial Intelligence*, pages 1953–1959. AAAI Press, 2013.

[1893] Xiaojin Zhu and Zoubin Ghahramani. Learning from labeled and un-
labeled data with label propagation. Technical Report CMU-CALD-02-
107, Carnegie Mellon University, 2002.

[1894] Xiaojin Zhu, Zoubin Ghahramani, and John Lafferty. Semi-supervised
learning using Gaussian fields and harmonic functions. In *ICML2003*,
pages 912–919, 2003.

[1895] Xiaojin Zhu, Jaz Kandola, John Lafferty, and Zoubin Ghahramani.
Graph kernels by spectral transformations. In Olivier Chapelle, Bern-
hard Schölkopf, and Alexander Zien, editors, *Semi-Supervised Learning*.
MITP, 2006.

[1896] Xiaojin Zhu and John Lafferty. Harmonic mixtures: Combining mix-
ture models and graph-based methods for inductive and scalable semi-
supervised learning. In *ICML2005*, 2005.

[1897] Xiaojin Zhu, John Lafferty, and Zoubin Ghahramani. Semi-supervised
learning: From Gaussian fields to Gaussian processes. Technical Report
CMU-CS-03-175, Carnegie Mellon University Computer Science Depart-
ment, August 2003.

[1898] Xiaojin Zhu, Timothy J. Rogers, Ruichen Qian, and Chuck Kalish. Hu-
mans perform semi-supervised classification too. In *AAAI 2007*, page
864, 2007.

[1899] Yangbo Zhu, Shaozhi Ye, and Xing Li. Distributed PageRank com-
putation based on iterative aggregation-disaggregation methods. In
CIKM2005, pages 578–585, 2005.

[1900] Ziming Zhuang and Silviu Cucerzan. Re-ranking search results using
query logs. In *CIKM '06: Proceedings of the 15th ACM international
conference on Information and knowledge management*, pages 860–861,
New York, NY, USA, 2006. ACM.

[1901] Eric Zidenberg, Barbara Skiffington, and Craig Wooldridge. Link analy-
sis. In *AAAI-FS1998A*, pages 76–77, 1998.

[1902] George K. Zipf. *Human Behaviour and the Principle of Least Effort*.
Addison-Wesley, Cambridge, MA, 1949.

[1903] V. Zlatić, M. Božičević, H. Štefančić, and M. Domazet. Wikipedias:
Collaborative web-based encyclopedias as complex networks. *PRE*, 74,
July 24, 2006.

[1904] Arkaitz Zubiaga, Damiano Spina, Enrique Amigó, and Julio Gonzalo.
Towards Real-Time Summarization of Scheduled Events from Twitter
Streams. *ArXiv 1204.3731*, April 2012.