

REFERENCES

1. Clifton, Christopher (2010), Encyclopedia Britannica: Definition of Data Mining. Retrieved 2010-12-09.
2. Jennifer Golbeck (2013), Analyzing the social web, Morgan Kaufmann.
3. Adedoyin-Olowe, M., Gaber, M. M., & Stahl, F (2013), A survey of data mining techniques for social media analysis. arXiv preprint arXiv:1312.4617.
4. S. Anitha Elavarasi and Dr. J. Akilandeswari and Dr. B. Sathiyabhama (2011), A Survey on Partition Clustering Algorithms.
5. Santos, J.M, de Sa, J.M, Alexandre, L.A, EGClust (2008), A Clustering Algorithm based on Layered Entropic subgraph. Pattern Analysis and Machine Intelligence, IEEE Transactions: 62-75.
6. M. Livny, R. Ramakrishnan, T. Zhang (1996), BIRCH: An Efficient Clustering Method for Very Large Databases. Proceeding ACMSIGMOD Workshop on Research Issues on Data Mining and Knowledge Discovery: 103-114.
7. S. Guha, R. Rastogi, and K. Shim (1998), CURE: An Efficient Clustering Algorithm for Large Databases. Proc. ACM Int'l Conf. Management of Data: 73-84.
8. Jiawei Han, Micheline Kamber, Data Mining Concepts and Techniques, Elsevier Publication.
9. M Meila, D Verma (2001), Comparison of spectral clustering algorithm. University of Washington, Technical report.
10. Santos, J.M, de SA, J.M, Alexandre, L.A, LEGClust (2008), A Clustering Algorithm based on Layered Entropic subgraph. Pattern Analysis and Machine Intelligence, IEEE Transactions: 62-75.
11. A.K. Jain, M.N. Murty and P.J. Flynn (1999), Data Clustering: a review, (Balance Iterative Reducing and Clustering using Hierarchies), CURE (Cluster Using Representatives) Chameleon.
12. Berthold and Hand (2007), Intelligent Data Analysis: An Introduction, Springer; 2nd edition.
13. Dimitrijevic M. and Bosnjak Z (2011), Web Usage Association Rule Mining System, Interdisciplinary Journal of Information, Knowledge, and Management Volume 6, pp 137-150.

14. Kantardzic, M. (2003), *Data mining – Concepts, models, methods, and algorithms*, Wiley-IEEE Press.
15. Dorian Pyle, (1999), *Data Preparation for Data Mining (The Morgan Kaufmann Series in Data Management Systems)*, Morgan Kaufmann; 1 edition.
16. Andreea Griparis and Daniela Faur, Mihai Datcu (2016), *A Dimensionality Reduction Approach to Support Visual Data Mining: Co-Ranking-based Evolution*, 978-1-4673-8197-0/16/\$31.00© IEEE.
17. Two Crows Corporation (1999), *Introduction to Data Mining and Knowledge Discovery*.
18. *Web Mining Research*, Raymond Kosala, Hendrik Blockeel.
19. *Web Mining, Accomplishments & Future Directions*, Jaideep Srivastava University of Minnesota, USA.
20. Dr. M.H. Dunham (2002), *Data Mining, Introductory and Advanced Topics*, Prentice Hall.
21. Chen, Z. S., Kalashnikov, D. V. and Mehrotra (2009), S. Exploiting context analysis for combining multiple entity resolution systems. In *Proceedings of the 2009 ACM International Conference on Management of Data (SIGMOD'09)*.
22. Kaplan, A.M. and Haenlein (2010), M.: Users of the world unite! The challenges and opportunities of social media. *Science Direct*, 53, 59-68.
23. Borgatti, S P. (2009), 2-Mode concepts in social network analysis, *Encyclopedia of Complexity and System Science*, 8279-8291.
24. Thompson, J B. (2013), *Media and modernity: A social theory of the media*. John Wiley & Sons.
25. Kim, Y., Hsu, S-H., de Zuniga, H.G. (2013), Influence of social network use on discussion network heterogeneity and civic engagement: The moderating role of personality traits, *Journal of Communication* 63.3, 498-516.
26. J. C. Cortizo, F. M. Carrero, J. M. Gomez, B. Monsalve, and P. Puertas (2009), Introduction to mining social media. In F. M. Carrero, J. M. Gomez, B. Monsalve, P. Puertas, and J. C. a. Cortizo, editors, *Proceedings of the 1st International Workshop on Mining Social Media*, pages 1–3.
27. I. King, J. Li, and K. T. Chan (2009), A brief survey of computational approaches in social computing. In *IJCNN'09: Proceedings of the 2009 international joint conference on Neural Networks*, pages 2699–2706, Piscataway, NJ, USA, IEEE Press.

28. F. Jiang, S. Jin, Y. Wu and J. Xu (2014), A uniform framework for community detection via influence maximization in social networks, *Advances in Social Networks Analysis and Mining (ASONAM)*, 2014 IEEE/ACM International Conference on, Beijing, pp. 27-32
29. J. Abello, M.G.C. Rasende, S. Sudarsky (2002), Massive Quasi-Clique Detection. *Proceeding LATIN'02 Proceedings of the 5th Latin American Symposium on Theoretical Informatics*, Springer, 598-612.
30. L. Getoor and C. P. Diehl (2005), Link Mining: A Survey in *ACM SIGKDD Explorations Newsletter*, Vol. 7, Issue 2, pp. 3-12.
31. Liu, F., Lee, H. J (2010), Use of social network information to enhance collaborative filtering performance. *Expert Systems with Applications*, 37, 4772-4778.
32. Liu, B. (2011), Sentiment analysis and opinion Mining. *AAAI-2011*, San Francisco, USA.
33. R. Hanneman and M. Riddle (2005), *Introduction to Social Network Methods*. <http://faculty.ucr.edu/hanneman/>.
34. Lei Tang and Huan Liu (2010), *Community Detection and Mining in Social Media*, Morgan & Claypool Publishers.
35. D. Chakrabarti and C. Faloutsos (2006), Graph mining: Laws, generators, and algorithms. *ACM Comput. Surv*, 38(1):2.
36. J. Diesner, T. L. Frantz, and K. M. Carley (2005), Communication networks from the enron email corpus "it's always about the people. enron is no different". *Comput. Math. Organ. Theory*, 11(3):201–228.
37. David R. Wood (1997), An algorithm for finding a maximum clique in a graph, *Operations Research Letters* 21, ELSEVIER (1997), Page No 211-217.
38. V. Batagelj, A. Mrvar, and M. Zaversnik (1999), Partitioning Approach to Visualization of Large Networks in *Graph Drawing '99*, Castle Stirin, Czech Republic, LNCS 1731, pp. 90-98.
39. Michael Ovelgonne (2013), Distributed Community Detection in Web-Scale Networks, *Advances in Social Networks Analysis and Mining (ASONAM)*, 2013 IEEE/ACM International Conference.
40. M. Girvan and M. E. J. Newman (2002), Community structure in social and biological networks, *Proceedings of the National Academy of Sciences of the United States of America*, vol. 99, no. 12, pp. 7821-7826.

41. Clauset, M. E. J. Newman, and C. Moore (2004), Finding community structure in very large networks. *Physical Review E*, 70:066111.
42. M. E. J. Newman and M. Girvan (2004), Finding and evaluating community structure in networks, *PHYSICAL REVIEW E* 69, 026113.
43. Palla, G., Derényi, I., Farkas, I. & Vicsek, T. (2005), Uncovering the overlapping community structure of complex networks in nature and society. *Nature* 435, 814–818.
44. Baumes, J., Goldberg, M., Magdon-Ismael, M., Wallace, W. (2004), Discovering hidden groups in communication networks. *Intelligence and Security Informatics ISI* (2004)378-389.
45. E. A. Leicht and M. E. J. Newman (2008), Community Structure in Directed Networks, *Physical Review Letters*, PRL 100, 118703.
46. J. M. Kumpula, M. Kivela, K. Kaski, and J. Saramaki (2008), A sequential algorithm for fast clique percolation, *Physical Review E*, vol. 78, no. 2, Article ID 026109, 7 pages.
47. Hua-Wei Shen, Xue-Qi Cheng¹ and Jia-Feng Guo (2009), Quantifying and identifying the overlapping community structure in networks, doi:10.1088/1742-5468/2009/07/P07042, 1742-5468.
48. B. Balasundram, S. Butenko, and I.V. Hicks (2011), Clique relaxations in social network analysis: The maximum k-plex problem. *Operations Research*, 59:133–142.
49. I. Psorakis, S. Roberts, and M. Ebdon (2011), overlapping community detection using bayesian non-negative matrix factorization. *Phys. Rev. E*. 83.
50. Jierui. Xie, S. Kelley, and B. K. Szymanski (2011), Overlapping community detection in networks: the state of the art and comparative study, arXiv preprint arXiv: 1110.5813.
51. Kaikuo Xu · Jia He · Surong Zou · Hongwei Zhang, Tianyun Yan · XuzhongWei (2012), A Cohesive Subgraph Visualization-Based Approach to Efficiently Discover Large k-Clique Community, *Arab Journal of Sci Eng* (2012) 37:1959–1968 DOI 10.1007/s13369-012-0299-x.
52. Yang yang Li, Ruochen Liu and Jianshe Wu (2012), A Spectral Clustering-Based Adaptive Hybrid MultiObjective Harmony Search Algorithm for Community Detection, WCCI 2012 IEEE World Congress on Computational Intelligence, June 10-15, Brisbane, Australia.
53. Sudip Misra, Romil Barthwal, Mohammad S. Obaidat (2012), Community Detection in an Integrated Internet of Things and Social Network Architecture, *Global Communications Conference (GLOBECOM)*, 2012 IEEE.

54. Deepjyoti Choudhury, Saprativa Bhattacharjee, Anirban Das (2013), An Empirical Study of Community and Sub-Community Detection in Social Networks Applying Newman-Girvan Algorithm, Emerging Trends and Applications in Computer Science (ICETACS), 2013 1st International Conference.
55. Ahmed Ibrahim Hafez, Abaul ella Hassanien, Aly A. Fahm and M.F. Talba (2013), Community Detection in Social Networks by using Bayesian network and Expectation Maximization technique, 2013 IEEE.
56. Bapuji Rao, Anirban Mitra (2014), A New Approach for Detection of Common Communities in a Social Network using Graph Mining Techniques, 2014 IEEE.
57. Jing Qiu, Jing Peng Ying Zhai (2014), Network community detection based on spectral clustering, Proceedings of the 2014 International Conference on Machine Learning and Cybernetics, Lanzhou, 13- 16.
58. G. Rossetti, L. Pappalardo and S. Rinzivillo (2016), A novel approach to evaluate community detection algorithms on ground truth. Complex Networks VII: Proceedings of the 7th Workshop on Complex Networks, pp. 133-144.
59. Yue Wang, Xun Jian1, Zhenhua Yang, Jia Li (2017), Query Optimal k-Plex Based Community in Graphs, Data Sci. Eng. (2017) 2:257–273, <https://doi.org/10.1007/s41019-017-0051-3>.
60. Hossein Esfandiari, Silvio Lattanzi, Vahab Mirrokni (2018), Parallel and Streaming Algorithms for K-Core Decomposition, Proceedings of the 35 th International Conference on Machine Learning, Stockholm, Sweden, PMLR 80.
61. Diestel, R. (2006). Graph Theory (3rd ed.). New York: Springer-Verlag.
62. Reza Zafarani, Mohammad Ali Abbasi, and Huan Liu (2014), Social Media Mining: An Introduction, Cambridge University Press.
63. Raymond, J. W., Gardiner, E. J., & Willett, P(2002b), RASCAL: Calculation of Graph Similarity Using Maximum Common Edge Subgraphs. The Computer Journal, 45(6), 631–644. Retrieved 2012-11-22, from <http://comjnl.oxfordjournals.org/content/45/6/631.short>
64. Balasundaram, B.; Butenko, S.; and Hicks, I. V., 2011, Clique relaxations in social network analysis: The maximum k-plex problem. Operations Research 59(1):133–142.
65. Xie, J., Kelley, S. & Szymanski, B. K., 2013, Overlapping community detection in networks: the state of the art and comparative study. ACM Comput. Surv.45, 43, 10.1145/2501654.2501657.

66. Seidman, S. B., and Foster, B. L. 1978. A graph-theoretic generalization of the clique concept. *Journal of Mathematical sociology* 6(1):139–154.
67. Krebs, V. E. (2002), Mapping networks of terrorist cells. *Connections* 24(3):43–52.
68. Du, N.; Wu, B.; Pei, X.; Wang, B.; and Xu, L (2007), Community detection in large-scale social networks. In *Proceedings of the 9th WebKDD and 1st SNA-KDD*, 16–25. ACM.
69. Newman, M. E. (2006b), Modularity and community structure in networks. *Proceedings of the National Academy of Sciences*, 103(23):8577–8582.
70. P. Pons, M. Latapy (2006), Computing communities in large networks using random walks, *Journal of Graph Algorithms and Applications*, vol. 10, no. 2, pp. 191-218.
71. Lei Tang, Huan Liu, (2010) *Community Detection and Mining in Social Media*, Morgan & Claypool Publishers.
72. Newman, M. E. (2001), The structure of scientific collaboration networks. *Proceedings of the National Academy of Sciences* 98(2):404–409.
73. I. Bomze, M. Budinich, P. Pardalos, M. Pelillo, et al. (1999), The maximum clique problem. *Handbook of combinatorial optimization*, 4(1):1–74.
74. V. Batagelj and M. Zaversnik, (2003), An $O(m)$ algorithm for cores decomposition of networks. arXiv preprint cs/0310049.
75. Seidman, S. B., and Foster, B. L. 1978. A graph-theoretic generalization of the clique concept. *Journal of Mathematical sociology* 6(1):139–154.
76. G. Palla, I. Derenyi, I. Farkas, and T. Vicsek (2005), Uncovering the overlapping community structure of complex networks in nature and society, *Nature*, vol. 435, no. 7043, pp. 814–818.
77. Stanley Wasserman , Katherine Faust (1994), *Social Network Analysis: Methods and Applications (Structural Analysis in the Social Sciences)*, Cambridge University Press.
78. Jennifer Golbeck (2013), *Analyzing the social web*, Morgan Kaufmann.
79. M. Coscia, G. Rossetti, F. Giannotti, and D. Pedreschi (2012), Demon: a local-first discovery method for overlapping communities. In *KDD '12*.
80. S. Fortunato. (2010), Community detection in graphs. *Physics Reports*.
81. M. Girvan and M. Newman (1997), Community structure in social and biological networks.
82. M. E. J. Newman (2001), scientific collaboration networks: II. Shortest paths, weighted networks, and centrality. *Phys. Rev.E*64, 016132.

83. M. E. J. Newman and M. Girvan. (2004), Finding and evaluating community structure in networks. *Physical Review E*, 69.
84. M. E. J. Newman and M. Girvan. Finding and evaluating community structure in networks. *Physical Review E*, 69, 2004.
85. J. Cheng, Y. Ke, A. W.-C. Fu, J. X. Yu, and L. Zhu (2011), Finding maximal cliques in massive networks. *ACM Transactions on Database Systems*, 36(4), 2011.
86. Stephen B. Seidman & Brian L. Foster(1978), A graph-theoretic generalization of the clique concept, *The Journal of Mathematical Sociology*, Volume 6, 1978 - Issue 1.
87. Seidman, S.B. (1983), Network structure and minimum degree. *Social Networks*, 269–287.
88. Balasundaram B, Butenko S, Hicks IV (2011), Clique relaxations in social network analysis: the maximum k-plex problem. *Oper Res* 59(1):133–142.
89. J. Baumes, M. Goldberg, and M. Magdon-Ismail (2005), Efficient identification of overlapping communities, *Intelligence and Security Informatics*, pp. 1–5.
90. Nyi I.D., Palla G., and Vicseki T. (2005), Clique Percolation in Random Networks. In: *Physical Review Letters*.
91. Y. Zhang, J. Wang, Y. Wang, and L. Zhou (2009), Parallel community detection on large networks with propinquity dynamics, in *Proceedings of the 15th ACM SIGKDD international conference on Knowledge discovery and data mining*, pp. 997–1006.
92. S. Sadi, S. G. Oğuc, and A. S. Etaner-Uyar (2010), An efficient community detection method using parallel clique-finding ants, in *IEEE Congress on Evolutionary Computation*, pp. 1–7.
93. B. Tóth, T. Vicsek, G. Palla (2013), Overlapping modularity at the critical point of k-clique Xie J, Kelley S, Szymanski BK (2013) Overlapping community detection in networks: the state-of-the-art and comparative study. *ACM Comput Surv (csur)* 45(4):43.
94. Xie J, Kelley S, Szymanski BK (2013) Overlapping community detection in networks: the state-of-the-art and comparative study. *ACM Comput Surv (csur)* 45(4):43.
95. D. Chen, M. Shang, Z. Lv, Y. Fu (2010), Detecting overlapping communities of weighted networks via a local algorithm, *Physica A: Statistical Mechanics and its Applications*, vol. 389, no. 19, pp. 4177-4187.
96. Ye, N. (2003), *The handbook of data mining*, New Jersey: Lawrence Erlbaum Associates
97. X. Bai, P. Yang, X. Shi (2017), An overlapping community detection algorithm based on density peaks, *Neurocomputing*, vol. 226, pp. 7-15.

98. L. Tang, H. Liu, J. Zhang, N. Agarwal, and J. J. Salerno (2008), Topic taxonomy adaptation for group profiling. *ACM Trans. Knowl. Discov. Data*, 1(4):1–28.
99. Lipschutz (2016), Seymour. *Schaum's outline of Data Structures*, Tata McGraw-Hill Publishing Company Limited, 7 West Patel Nagar, New Delhi 110 008.
100. M. Moy (2005), Using tmods to run the best friends group detection algorithm. 21st Century Technologies Internal Publication.
101. R. Diestel (200), *Graph Theory*. Springer, New York.
102. R. Kumar, J. Novak, and A. Tomkins (2006), 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.
103. C. E. Tsourakakis, C. Gkantsidis, B. Radunovic, and M. Vojnovic. Fennel (2000), Streaming Graph Partitioning for Massive Scale Graphs. Technical Report MSR-TR-2012-113, Microsoft Research.
104. A. Trifunović and W. J. Knottenbelt (2008), Parallel Multilevel Algorithms for Hypergraph Partitioning. *J. Parallel Distrib. Comput.*, 68(5):563–581.
105. Kumar, P. Raghavan, S. Rajagopalan, and A. Tomkins (1999), Trawling the web for emerging cybercommunities. *Comput. Netw.*, 31(11-16):1481–1493.
106. Mitra A., Satpathy S. R. Paul S (2013), Clustering analysis in social network using Covering Based Rough Set, *Advance Computing Conference (IACC)*, 2013 IEEE 3rd International, India, 2013/2/22, 476-481.
107. Rao, Bapuji and Mitra, A (2014), An approach to study properties and behavior of Social Network using Graph Mining Techniques (accepted in) *DIGNATE 2014: ETEECT 2014*, India.
108. M. Newman (2005), A measure of betweenness centrality based on random walks, *Social networks* 27, pp39-54.
109. T. Ozaki and T. Ohkawa (2008), Mining Correlated Subgraphs in Graph Databases, *PAKDD 2008*, pp 272-283.
110. S. E. Schaeffer (2007), Graph Clustering, *Computer Science Review*, 2007, pp 27-64.
111. C. R. Dias, and L. S. Ochi (2003), Efficient Evolutionary Algorithms for the Clustering Problem in Directed Graphs, *Proceedings of the 2003 IEEE Congress on Evolutionary Computation*, volume 1, pp. 983-988.

LIST OF PUBLICATIONS

Papers Published in International Conference Proceedings

1. *Community detection based on Girvan Newman algorithm and Link Analysis of Social Media*, Digital Connectivity – Social impact, 51th Annual Convention of the Computer Society of India, CSI 2016, Springer proceedings – Communication in Computer and Information Science, Volume 679, PageNo 223-234, ISBN 978-981-10-3273-8. (**Scopus indexed**)
2. *Identification of Subgroups in a Directed Social Network using Edge Betweenness and Random Walks*, Smart Computing and Informatics proceedings of First International Conference on SCI 2016, Springer – Smart Innovation, Systems and Technologies, Volume 2, Page No. 115-126 ISBN 10.1007/978-981-10-5544-7-12. (**Scopus indexed**)

Papers Published in International Journals

1. *Maximal Clique and K-Clique Analysis of Twitter Data Network*, International Journal of Pure and Applied Mathematics, Volume 119 No. 12 (2018), Page No. 14267-14281.
2. *Maximal K-Core Sub graph Analysis of Twitter Data Network*, Journal of Advanced Research in Dynamical and Control Systems, Volume 10, Number 10 (2018), Page No.706-715. (**Scopus indexed**)
3. *Approaches for Finding Cohesive Subgroups in Social Networks using Maximal k-plex Detection*, International Journal of Pure and Applied Mathematics, Volume 119 No. 18(2018), 3887-3905.

Papers in Review- International Journals

1. *Clique Percolation Method to Detect Overlapping Community Structure*, International Journal of Communication and Systems. (**Scopus indexed**)
2. *Hybrid Approach for Community Detection Using K-Core and Clique Percolation*, Turkish Journal of Electrical Engineering & Computer Sciences. (**SCI indexed**)
3. *Association Rule Mining for Clique Percolation on Community Detection*, Computer Methods in Applied Mechanics and Engineering (**SCI indexed**)