

CITATION REPORT

List of articles citing

Benchmark graphs for testing community detection algorithms

DOI: 10.1103/physreve.78.046110
Physical Review E, 2008, 78, 046110.

Source: <https://exaly.com/paper-pdf/44163649/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1974	Towards real-time community detection in large networks. <i>Physical Review E</i> , 2009 , 79, 066107	2.4	190
1973	Detecting network communities by propagating labels under constraints. <i>Physical Review E</i> , 2009 , 80, 026129	2.4	243
1972	Detecting communities in networks by merging cliques. 2009 ,		14
1971	Community detection based on adaptive kernel affinity propagation. 2009 ,		0
1970	Modularity optimization in community detection of complex networks. 2009 , 87, 38002		68
1969	Revealing network communities through modularity maximization by a contraction-dilation method. 2009 , 11, 043025		22
1968	Fast centrality approximation in modular networks. 2009 ,		23
1967	Multiresolution community detection for megascale networks by information-based replica correlations. <i>Physical Review E</i> , 2009 , 80, 016109	2.4	156
1966	Benchmark graphs for the evaluation of clustering algorithms. 2009 ,		5
1965	Alternative approach to community detection in networks. <i>Physical Review E</i> , 2009 , 79, 066111	2.4	12
1964	Strategies for Network Motifs Discovery. 2009 ,		27
1963	A Comparison of Community Detection Algorithms on Artificial Networks. 2009 , 242-256		43
1962	Complex eigenvectors of network matrices give better insight into the community structure. 2009 , 2009, P10018		10
1961	Community detection in networks with positive and negative links. <i>Physical Review E</i> , 2009 , 80, 036115	2.4	232
1960	Community detection algorithms: a comparative analysis. <i>Physical Review E</i> , 2009 , 80, 056117	2.4	1203
1959	Detecting overlapping community structure of networks based on vertex-vertex correlations. 2009 , 2009, P11013		26
1958	Benchmarks for testing community detection algorithms on directed and weighted graphs with overlapping communities. <i>Physical Review E</i> , 2009 , 80, 016118	2.4	581

1957	Relative evaluation of partition algorithms for complex networks. 2009 ,			1
1956	Fuzzy modularity and fuzzy community structure in networks. 2010 , 77, 547-557			33
1955	Generation of arbitrary two-point correlated directed networks with given modularity. 2010 , 374, 3129-3135			7
1954	Self-organizing map of complex networks for community detection. 2010 , 23, 931-941			5
1953	Clustering dense graphs: A web site graph paradigm. 2010 , 46, 247-267			4
1952	Small world models for social network algorithms testing. 2010 , 1, 2341-2344			2
1951	Community detection in graphs. 2010 , 486, 75-174			6320
1950	Semi-supervised clustering algorithm for community structure detection in complex networks. 2010 , 389, 187-197			94
1949	Detecting community structure in complex networks via node similarity. 2010 , 389, 2849-2857			114
1948	Detecting overlapping communities of weighted networks via a local algorithm. 2010 , 389, 4177-4187			87
1947	Fuzzy analysis of community detection in complex networks. 2010 , 389, 5319-5327			15
1946	Application of the differential equations method for identifying communities in sparse networks. 2010 , 181, 1702-1706			3
1945	Characterizing the community structure of complex networks. 2010 , 5, e11976			157
1944	. 2010 ,			
1943	Statistical significance of communities in networks. <i>Physical Review E</i> , 2010 , 81, 046110		2.4	77
1942	Loops and multiple edges in modularity maximization of networks. <i>Physical Review E</i> , 2010 , 81, 046102		2.4	29
1941	Edge ratio and community structure in networks. <i>Physical Review E</i> , 2010 , 81, 026105		2.4	14
1940	Finding overlapping communities in networks by label propagation. 2010 , 12, 103018			549

1939	Detecting Highly Overlapping Communities with Model-Based Overlapping Seed Expansion. 2010 ,			63
1938	SHRINK. 2010 ,			55
1937	Eigenspaces of networks reveal the overlapping and hierarchical community structure more precisely. 2010 , 2010, P08012			12
1936	Clustering method incorporating network topology and dynamics. 2010 ,			
1935	Coarse-grained diffusion distance for community structure detection in complex networks. 2010 , 2010, P12030			4
1934	gSkeletonClu: Density-Based Network Clustering via Structure-Connected Tree Division or Agglomeration. 2010 ,			42
1933	Distance Distribution and Average Shortest Path Length Estimation in Real-World Networks. 2010 , 322-333			7
1932	Uncovering the community structure associated with the diffusion dynamics on networks. 2010 , 2010, P04024			34
1931	Local resolution-limit-free Potts model for community detection. <i>Physical Review E</i> , 2010 , 81, 046114	2.4		127
1930	Knowledge acquisition by networks of interacting agents in the presence of observation errors. <i>Physical Review E</i> , 2010 , 82, 016103	2.4		4
1929	Measuring the significance of community structure in complex networks. <i>Physical Review E</i> , 2010 , 82, 066106	2.4		22
1928	Topologically biased random walk and community finding in networks. <i>Physical Review E</i> , 2010 , 82, 066109	2.4		37
1927	The Effect of Network Realism on Community Detection Algorithms. 2010 ,			13
1926	Covariance, correlation matrix, and the multiscale community structure of networks. <i>Physical Review E</i> , 2010 , 82, 016114	2.4		43
1925	Comparative Analysis for k-Means Algorithms in Network Community Detection. 2010 , 158-169			7
1924	Detection of Overlapping Communities in Dynamical Social Networks. 2010 ,			80
1923	Module detection in complex networks using integer optimisation. 2010 , 5, 36			18
1922	A Core-based Community Detection Algorithm for Networks. 2010 ,			0

1921	A Hierarchical Diffusion Algorithm for Community Detection in Social Networks. 2010,		11
1920	Numerical Simulation Research of NOx Emissions Characteristic of Vehicle Engine Fueled with LPG. 2010,		
1919	Detecting Communities in Massive Networks Based on Local Community Attractive Force Optimization. 2010,		2
1918	Overlapping Community Search for social networks. 2010,		21
1917	. 2010,		35
1916	Spectral methods for the detection of network community structure: a comparative analysis. 2010, 2010, P10020		57
1915	A Diffusion of Innovation-Based Closeness Measure for Network Associations. 2011,		
1914	Efficient Calculation of Structural Similarity Threshold for the SCAN Network Clustering Algorithm. 2011,		
1913	Generalized Louvain method for community detection in large networks. 2011,		79
1912	Community detection using a neighborhood strength driven Label Propagation Algorithm. 2011,		68
1911	Interplay between structure and dynamics in adaptive complex networks: emergence and amplification of modularity by adaptive dynamics. <i>Physical Review E</i> , 2011 , 84, 016116	2.4	27
1910	Simulate to Detect: A Multi-agent System for Community Detection. 2011,		15
1909	Efficient and principled method for detecting communities in networks. <i>Physical Review E</i> , 2011 , 84, 036103		213
1908	Fuzzy overlapping communities in networks. 2011 , 2011, P02017		81
1907	Limits of modularity maximization in community detection. <i>Physical Review E</i> , 2011 , 84, 066122	2.4	250
1906	Narrow scope for resolution-limit-free community detection. <i>Physical Review E</i> , 2011 , 84, 016114	2.4	174
1905	Communities and beyond: mesoscopic analysis of a large social network with complementary methods. <i>Physical Review E</i> , 2011 , 83, 056125	2.4	21
1904	Community Evolution in Dynamic Social Networks -- Challenges and Problems. 2011,		7

1903	Community Structures in Classical Network Models. 2011 , 7, 81-106		30
1902	Memetic algorithm for community detection in networks. <i>Physical Review E</i> , 2011 , 84, 056101	2.4	150
1901	Local graph sparsification for scalable clustering. 2011 ,		81
1900	Finding communities in weighted networks through synchronization. 2011 , 21, 043116		11
1899	Network-based tools for the identification of novel drug targets. 2011 , 4, pt3		57
1898	Finding statistically significant communities in networks. 2011 , 6, e18961		596
1897	Towards online multiresolution community detection in large-scale networks. 2011 , 6, e23829		78
1896	Finding and testing network communities by lumped Markov chains. 2011 , 6, e27028		41
1895	Finding missing edges and communities in incomplete networks. 2011 , 44, 495102		13
1894	A validity index approach for network partitions. 2011 , 390, 3579-3591		0
1893	The effect of hub nodes on the community structure in scale-free networks. 2011 , 390, 4027-4033		7
1892	Identifying communities by influence dynamics in social networks. <i>Physical Review E</i> , 2011 , 84, 046102	2.4	21
1891	Robust network community detection using balanced propagation. 2011 , 81, 353-362		113
1890	A Posteriori Approach for Community Detection. 2011 , 26, 792-805		
1889	A classification for community discovery methods in complex networks. 2011 , 4, 512-546		210
1888	Scalable approach to uncertainty quantification and robust design of interconnected dynamical systems. 2011 , 35, 77-98		7
1887	Density-based shrinkage for revealing hierarchical and overlapping community structure in networks. 2011 , 390, 2160-2171		46
1886	Detecting communities in clustered networks based on group action on set. 2011 , 390, 1171-1181		4

1885	Impact of network structure on a model of diffusion and competitive interaction. 2011 , 94, 68009		16
1884	Identification of overlapping communities and their hierarchy by locally calculating community-changing resolution levels. 2011 , 2011, P01023		44
1883	Assessing the consistency of community structure in complex networks. <i>Physical Review E</i> , 2011 , 84, 016111	2.4	43
1882	Quantum walks on complex networks with connection instabilities and community structure. 2011 , 83,		11
1881	Tripartite community structure in social bookmarking data. 2011 , 17, 267-294		1
1880	Tolerating the community detection resolution limit with edge weighting. <i>Physical Review E</i> , 2011 , 83, 056119	2.4	105
1879	Finding communities in linear time by developing the seeds. <i>Physical Review E</i> , 2011 , 84, 036109	2.4	6
1878	Unfolding communities in large complex networks: combining defensive and offensive label propagation for core extraction. <i>Physical Review E</i> , 2011 , 83, 036103	2.4	111
1877	SLPA: Uncovering Overlapping Communities in Social Networks via a Speaker-Listener Interaction Dynamic Process. 2011 ,		216
1876	Asymptotic analysis of the stochastic block model for modular networks and its algorithmic applications. <i>Physical Review E</i> , 2011 , 84, 066106	2.4	346
1875	Network community-detection enhancement by proper weighting. <i>Physical Review E</i> , 2011 , 83, 046104	2.4	46
1874	Stochastic blockmodels and community structure in networks. <i>Physical Review E</i> , 2011 , 83, 016107	2.4	849
1873	The interaction between multiplex community networks. 2011 , 21, 016104		13
1872	Non-traditional spectral clustering algorithms for the detection of community structure in complex networks: a comparative analysis. 2011 , 2011, P05012		7
1871	Identifying and characterizing nodes important to community structure using the spectrum of the graph. 2011 , 6, e27418		29
1870	Detection of communities in directed networks based on strongly p-connected components. 2011 ,		6
1869	ANT COLONY OPTIMIZATION WITH A NEW RANDOM WALK MODEL FOR COMMUNITY DETECTION IN COMPLEX NETWORKS. 2011 , 14, 795-815		15
1868	Constructing and sampling graphs with a prescribed joint degree distribution. 2012 , 17,		18

1867	Detecting community structure in networks using edge prediction methods. 2012 , 2012, P09008		13
1866	An empirical study on the impact of edge bundling on user comprehension of graphs. 2012 ,		14
1865	Sampling from complex networks with high community structures. 2012 , 22, 023126		13
1864	Maximal-entropy random walk unifies centrality measures. <i>Physical Review E</i> , 2012 , 86, 066109	2.4	8
1863	Closed benchmarks for network community structure characterization. <i>Physical Review E</i> , 2012 , 85, 026119	2.4	11
1862	Existence and significance of communities in the World Trade Web. <i>Physical Review E</i> , 2012 , 85, 066119	2.4	28
1861	Community structure and scale-free collections of Erdős-Rényi graphs. <i>Physical Review E</i> , 2012 , 85, 056109	2.4	115
1860	Multiscale ensemble clustering for finding modules in complex networks. <i>Physical Review E</i> , 2012 , 85, 026119	2.4	7
1859	Stability-to-instability transition in the structure of large-scale networks. <i>Physical Review E</i> , 2012 , 86, 066106	2.4	8
1858	Common community structure in time-varying networks. <i>Physical Review E</i> , 2012 , 85, 056110	2.4	13
1857	Community detection using parallel genetic algorithms. 2012 ,		3
1856	The Community Detection of Complex Networks Based on Markov Matrix Spectrum Optimization. 2012 ,		3
1855	Community Preserving Lossy Compression of Social Networks. 2012 ,		7
1854	Finding missing edges in networks based on their community structure. <i>Physical Review E</i> , 2012 , 85, 056112	2.4	51
1853	Overlapping Community Detection via Leader-Based Local Expansion in Social Networks. 2012 ,		1
1852	Community Detection by Neighborhood Similarity. 2012 , 29, 048902		4
1851	AN ANT-BASED ALGORITHM WITH LOCAL OPTIMIZATION FOR COMMUNITY DETECTION IN LARGE-SCALE NETWORKS. 2012 , 15, 1250036		8
1850	Density-based Community Identification and Visualisation. 2012 ,		

1849	Relative Validity Criteria for Community Mining Algorithms. 2012,	11
1848	Consensus clustering in complex networks. 2012, 2, 336	427
1847	Phase transitions in random Potts systems and the community detection problem: spin-glass type and dynamic perspectives. 2012, 92, 406-445	40
1846	A New Definition of Modularity for Community Detection in Complex Networks. 2012, 29, 098901	5
1845	A Novel Similarity Measurement for Community Structure Detection. 2012,	
1844	Efficient algorithms for influence maximization in social networks. 2012, 33, 577-601	36
1843	Context-sensitive detection of local community structure. 2012, 2, 279-289	17
1842	Overlapping community detection using a community optimized graph swarm. 2012, 2, 405-417	28
1841	Efficient community identification in complex networks. 2012, 2, 345-359	11
1840	Graph spectra and the detectability of community structure in networks. 2012, 108, 188701	170
1839	One-mode Projection of Multiplex Bipartite Graphs. 2012,	12
1838	A Game Theoretic Framework for Community Detection. 2012,	9
1837	A Characterization of the Modular Structure of Complex Networks Based on Consensual Communities. 2012,	
1836	Path-sharing: A new betweenness measure for community identification in networks. 2012,	
1835	Discovering link communities in complex networks by exploiting link dynamics. 2012, 2012, P10015	15
1834	. 2012,	9
1833	An Approach for the Blockmodeling in Multi-Relational Networks. 2012,	6
1832	Towards Linear Time Overlapping Community Detection in Social Networks. 2012, 25-36	130

1831	Modularity-based graph partitioning using conditional expected models. <i>Physical Review E</i> , 2012 , 85, 016109	2.4	6
1830	Transforming a complex network to an acyclic one. 2012 , 391, 6184-6189		1
1829	Bloom: A stochastic growth-based fast method of community detection in networks. 2012 , 3, 356-366		4
1828	Communities, modules and large-scale structure in networks. 2012 , 8, 25-31		457
1827	Markov dynamics as a zooming lens for multiscale community detection: non clique-like communities and the field-of-view limit. 2012 , 7, e32210		100
1826	Limitations of gene duplication models: evolution of modules in protein interaction networks. 2012 , 7, e35531		5
1825	Discovering communities through friendship. 2012 , 7, e38704		9
1824	Community detection in Social Media. 2012 , 24, 515-554		364
1823	A Dimensionality Reduction Framework for Detection of Multiscale Structure in Heterogeneous Networks. 2012 , 27, 341-357		7
1822	Hearing the clusters of a graph: A distributed algorithm. 2012 , 48, 15-24		52
1821	A reductive approach to hypergraph clustering: An application to image segmentation. 2012 , 45, 2788-2803		35
1820	Detecting the optimal number of communities in complex networks. 2012 , 391, 1770-1776		5
1819	Surveying network community structure in the hidden metric space. 2012 , 391, 371-378		8
1818	Modularity functions maximization with nonnegative relaxation facilitates community detection in networks. 2012 , 391, 854-865		19
1817	Efficient algorithm based on neighborhood overlap for community identification in complex networks. 2012 , 391, 1788-1796		9
1816	Detecting community structure using biased random merging. 2012 , 391, 1797-1810		2
1815	Criteria for locally dense subgraphs. 2012 , 391, 1831-1847		4
1814	Community detection based on the "lumpiness" matrix in complex networks. 2012 , 391, 2463-2474		8

1813	Ordered community structure in networks. 2012 , 391, 2752-2763	5
1812	Community detection in networks by using multiobjective evolutionary algorithm with decomposition. 2012 , 391, 4050-4060	169
1811	Stochastic competitive learning in complex networks. 2012 , 23, 385-98	43
1810	Blockmodelling and role analysis in multi-relational networks. 2013 , 3, 701-719	9
1809	Identification of multi-resolution network structures with multi-objective immune algorithm. 2013 , 13, 1705-1717	33
1808	h-MapReduce: A Framework for Workload Balancing in MapReduce. 2013 ,	14
1807	Community detection in complex networks using extended compact genetic algorithm. 2013 , 17, 925-937	33
1806	Revealing Density-Based Clustering Structure from the Core-Connected Tree of a Network. 2013 , 25, 1876-1889	50
1805	Personalized PageRank Clustering: A graph clustering algorithm based on random walks. 2013 , 392, 5772-5785	35
1804	Trial and error in influential social networks. 2013 ,	2
1803	Maximal entropy random walk in community detection. 2013 , 216, 73-81	17
1802	Revealing network communities with a nonlinear programming method. 2013 , 229, 18-28	14
1801	Detecting and preventing error propagation via competitive learning. 2013 , 41, 70-84	6
1800	Graph-Based Hierarchical Categorization of Microblog Users. 2013 ,	
1799	PSCAN: A Parallel Structural Clustering Algorithm for Big Networks in MapReduce. 2013 ,	8
1798	Fuzzy overlapping community detection based on local random walk and multidimensional scaling. 2013 , 392, 6578-6586	39
1797	Detecting Overlapping Communities in Complex Networks Using Swarm Intelligence for Multi-threaded Label Propagation. 2013 , 111-119	5
1796	Influence of network structure on cooperative dynamics in coupled socio-ecological systems. 2013 , 104, 28003	8

1795	Community detection algorithm based on centrality and node distance in scale-free networks. 2013	6
1794	Identifying Overlapping Communities and Their Leading Members in Social Networks. 2013 , 52-61	
1793	A MapReduce and Information Compression Based Social Community Structure Mining Method. 2013 ,	
1792	Overlapping community detection in networks. 2013 , 45, 1-35	638
1791	Detecting hierarchical and overlapping network communities using locally optimal modularity changes. 2013 , 86, 1	1
1790	A fixed degree sequence model for the one-mode projection of multiplex bipartite graphs. 2013 , 3, 1209-1224	12
1789	Communities validity: methodical evaluation of community mining algorithms. 2013 , 3, 1039-1062	6
1788	Addressing structural and dynamic features of scientific social networks through the lens of Actor-Network Theory. 2013 , 3, 1263-1276	1
1787	Extending a configuration model to find communities in complex networks. 2013 , 2013, P09013	7
1786	Robustness of Community Partition Similarity Metrics. 2013 ,	
1785	Enhanced overlapping community detection in social networks using wise initialization. 2013 ,	2
1784	Tunable and Growing Network Generation Model with Community Structures. 2013 ,	5
1783	A study of the community structure of a complex software network. 2013 ,	7
1782	MLPA: Detecting overlapping communities by multi-label propagation approach. 2013 ,	0
1781	Selecting Nodes with Inhomogeneous Profile for Labeling for Network-Based Semi-supervised Learning. 2013 ,	
1780	Statistical Selection of Congruent Subspaces for Mining Attributed Graphs. 2013 ,	20
1779	Community detection based on modularity and an improved genetic algorithm. 2013 , 392, 1215-1231	131
1778	Detecting communities by the core-vertex and intimate degree in complex networks. 2013 , 392, 2555-2563	45

1777	Detecting community structure using label propagation with weighted coherent neighborhood propinquity. 2013 , 392, 3095-3105	40
1776	Detecting overlapping communities by seed community in weighted complex networks. 2013 , 392, 6125-6134	41
1775	Detect local communities in networks with an outside rate coefficient. 2013 , 392, 2821-2829	2
1774	Uncovering overlapping cluster structures via stochastic competitive learning. 2013 , 247, 40-61	16
1773	Identifying influential nodes in complex networks with community structure. 2013 , 42, 74-84	133
1772	Hierarchical community detection with applications to real-world network analysis. 2013 , 83, 20-38	33
1771	An efficient community detection method based on rank centrality. 2013 , 392, 2182-2194	32
1770	Obtaining communities with a fitness growth process. 2013 , 392, 2278-2293	3
1769	Enhancing community detection using a network weighting strategy. 2013 , 222, 648-668	64
1768	Generating graphs that approach a prescribed modularity. 2013 , 36, 363-372	7
1767	Community Detection in Complex Networks: Multi-objective Enhanced Firefly Algorithm. 2013 , 46, 1-11	125
1766	Producer-Consumer: The Programming Model for Future Many-Core Processors. 2013 , 110-121	0
1765	Phase transition model for community detection. 2013 , 392, 1287-1301	10
1764	Community structure detection in complex networks with partial background information. 2013 , 101, 48005	37
1763	Ant colony clustering with fitness perception and pheromone diffusion for community detection in complex networks. 2013 , 392, 3260-3272	29
1762	Discovery of Community Structures in a Heterogeneous Professional Online Network. 2013 ,	12
1761	Detecting local community structures in complex networks based on local degree central nodes. 2013 , 392, 529-537	70
1760	Load balanced diffusive capture process on homophilic scale-free networks. 2013 , 392, 510-519	2

1759	Detection of community overlap according to belief propagation and conflict. 2013 , 392, 941-952	8
1758	The Stability of a Graph Partition: A Dynamics-Based Framework for Community Detection. 2013 , 221-242	24
1757	Evaluating the Performance of Clustering Algorithms in Networks. 2013 , 143-158	
1756	Using community detection for sentiment analysis. 2013 ,	5
1755	Effect of mixing parts of modular networks on explosive synchronization. 2013 , 104, 58002	5
1754	A Spin-Glass Model Based Local Community Detection Method in Social Networks. 2013 ,	4
1753	Detecting and labeling representative nodes for network-based semi-supervised learning. 2013 ,	1
1752	. 2013 ,	6
1751	Distinguishing topical and social groups based on common identity and bond theory. 2013 ,	27
1750	Spectral graph multisection through orthogonality. 2013 ,	1
1749	Analyzing future communities in growing citation networks. 2013 ,	2
1748	A New Multiobjective Evolutionary Algorithm for Community Detection in Dynamic Complex Networks. 2013 , 2013, 1-7	10
1747	Surprise maximization reveals the community structure of complex networks. 2013 , 3, 1060	54
1746	Trading Communities, the Networked Structure of International Relations, and the Kantian Peace. 2013 , 57, 1011-1042	38
1745	Community detection in social networks through similarity virtual networks. 2013 ,	5
1744	A spectral algorithm of community identification. 2013 , 101, 48001	3
1743	Structure and function in flow networks. 2013 , 101, 68001	11
1742	An improvement of the fast uncovering community algorithm. 2013 , 22, 108903	5

1741 A Hierarchical Clustering Approach to Modularity Maximization. **2013**, 79-86

1740 Exponential random graph models for networks with community structure. *Physical Review E*, **2013**, 88, 032810 2.4 14

1739 A Method Based on Total Variation for Network Modularity Optimization Using the MBO Scheme. **2013**, 73, 2224-2246 25

1738 Graph clustering with local search optimization: the resolution bias of the objective function matters most. *Physical Review E*, **2013**, 87, 012812 2.4 12

1737 Detectability of communities in heterogeneous networks. *Physical Review E*, **2013**, 88, 010801 2.4 40

1736 Efficient local behavioral-change strategies to reduce the spread of epidemics in networks. *Physical Review E*, **2013**, 88, 042801 2.4 16

1735 Genetic Algorithm with a Local Search Strategy for Discovering Communities in Complex Networks. **2013**, 6, 354-369 20

1734 Stochastic fluctuations and the detectability limit of network communities. *Physical Review E*, **2013**, 88, 060801 2.4 2

1733 Parsimonious module inference in large networks. **2013**, 110, 148701 106

1732 Community detection using Ant Colony Optimization. **2013**, 23

1731 Spanning tree separation reveals community structure in networks. *Physical Review E*, **2013**, 87, 2.4 7

1730 Identify the diversity of mesoscopic structures in networks: A mixed random walk approach. **2013**, 104, 18006 3

1729 Improved network community structure improves function prediction. **2013**, 3, 2197 27

1728 Bayesian Nonparametric Models for Community Detection. **2013**, 55, 390-402 6

1727 An Empirical Study of the Relation between Community Structure and Transitivity. **2013**, 99-110 22

1726 An Eigenvector-Based Kernel Clustering Approach to Detecting Communities in Complex Networks. **2013**, 23-28

1725 Structure and attributes community detection benchmark and a novel selection method. **2013**,

1724 Exploring the limits of community detection strategies in complex networks. **2013**, 3, 2216 46

1723	Significant scales in community structure. 2013 , 3, 2930	70
1722	Impact of the Network Structure on Transmission Dynamics in Complex Networks*. 2013 , 46, 218-223	
1721	Enhanced community structure detection in complex networks with partial background information. 2013 , 3, 3241	40
1720	Community detection with punished similarity. 2013 ,	
1719	Identifying communities and key vertices by reconstructing networks from samples. 2013 , 8, e61006	3
1718	Link community detection using generative model and nonnegative matrix factorization. 2014 , 9, e86899	22
1717	Extraction of temporal networks from term co-occurrences in online textual sources. 2014 , 9, e99515	6
1716	Community structure detection for overlapping modules through mathematical programming in protein interaction networks. 2014 , 9, e112821	14
1715	Mobile recommendation based on link community detection. 2014 , 2014, 259156	0
1714	Detecting community structures in networks by label propagation with prediction of percolation transition. 2014 , 2014, 148686	2
1713	An Improved Local Community Detection Algorithm Using Selection Probability. 2014 , 2014, 1-10	1
1712	A node influence based label propagation algorithm for community detection in networks. 2014 , 2014, 627581	38
1711	Label propagation algorithm based on edge clustering coefficient for community detection in complex networks. 2014 , 28, 1450216	18
1710	A Community Divisive Algorithm Using Local Weak Links. 2014 ,	1
1709	Semi-supervised community detection using label propagation. 2014 , 28, 1450208	24
1708	An EDA-based community detection in complex networks. 2014 ,	3
1707	Enhancing betweenness algorithm for detecting communities in complex networks. 2014 , 28, 1450074	2
1706	Random Walks, Markov Processes and the Multiscale Modular Organization of Complex Networks. 2014 , 1, 76-90	181

1705	AGGLOMERATIVE CLUSTERING BASED ON LABEL PROPAGATION FOR DETECTING OVERLAPPING AND HIERARCHICAL COMMUNITIES IN COMPLEX NETWORKS. 2014 , 17, 1450021	4
1704	The Power of Consensus: Random Graphs Still Have No Communities. 2014 , 145-164	
1703	Cascading failures in complex networks with community structure. 2014 , 25, 1440005	12
1702	A FAST ESTIMATION ALGORITHM OF COMMUNITY NUMBER IN LARGE SCALE-FREE COMPLEX NETWORKS. 2014 , 28, 1450039	3
1701	. 2014 ,	5
1700	Modularity-based community detection in large networks: An empirical evaluation. 2014 ,	
1699	An intelligent ant colony optimization for community detection in complex networks. 2014 ,	8
1698	A novel algorithm for community detection and influence ranking in social networks. 2014 ,	13
1697	Percolation in the classical blockmodel. 2014 , 87, 1	1
1696	LICOD: A Leader-driven algorithm for community detection in complex networks. 2014 , 1, 241-256	34
1695	Analysis of resolution limit in community detection. 2014 ,	
1694	How community-like is the structure of synthetically generated graphs?. 2014 ,	7
1693	Using Prior Knowledge for Community Detection by Label Propagation Algorithm. 2014 , 1049-1050, 1566-1571	
1692	Research on the Community Detection Methods in Complex Networks. 2014 , 513-517, 2433-2438	
1691	Measuring robustness of community structure in complex networks. 2014 , 108, 68009	53
1690	User Interaction Based Community Detection in Online Social Networks. 2014 , 296-310	8
1689	Detecting communities in networks using a Bayesian nonparametric method. 2014 , 28, 1450199	
1688	OPINION DYNAMICS APPROACH FOR IDENTIFYING COMMUNITY STRUCTURES IN COMPLEX NETWORKS. 2014 , 17, 1450023	3

1687	Epidemic spreading model based overlapping community detection. 2014,	1
1686	A memetic algorithm using local structural information for detecting community structure in complex networks. 2014,	1
1685	Discovering Social Circles in Directed Graphs. 2014, 8, 1-27	9
1684	Community detection for networks with unipartite and bipartite structure. 2014, 16, 093001	7
1683	Control of Synchronization on Community Networks. 2014, 548-549, 1454-1459	
1682	Local Community Detection in Complex Networks Based on Maximum Cliques Extension. 2014, 2014, 1-12	5
1681	Detecting Local Community Structures in Networks Based on Boundary Identification. 2014, 2014, 1-8	6
1680	Community detection in social networks: The power of ensemble methods. 2014,	4
1679	Community Detection in Complex Networks using Randomisation. 2014,	3
1678	Direct generation of random graphs exactly realising a prescribed degree sequence. 2014,	
1677	Detecting overlapping communities of weighted networks by central figure algorithm. 2014,	
1676	Community detection in graphs through correlation. 2014,	14
1675	Quantum inspired genetic algorithm for community structure detection in social networks. 2014,	3
1674	Label propagation with k -degree neighborhood impact for network community detection. 2014, 2014, 130689	8
1673	Clique guided community detection. 2014,	3
1672	A multiobjective evolutionary algorithm based on similarity for community detection from signed social networks. 2014, 44, 2274-87	154
1671	Parallel Toolkit for Measuring the Quality of Network Community Structure. 2014,	4
1670	Random walks based modularity. 2014,	11

1669	Dynamics on modular networks with heterogeneous correlations. 2014 , 24, 023106		27
1668	Local search of communities in large graphs. 2014 ,		141
1667	Anti-triangle centrality-based community detection in complex networks. 2014 , 8, 116-25		17
1666	Community detection: effective evaluation on large social networks. 2014 , 2, 19-37		14
1665	A Hierarchical Multi-label Propagation Algorithm for Overlapping Community Discovery in Social Networks. 2014 ,		4
1664	An ant colony optimization method to detect communities in social networks. 2014 ,		7
1663	Overlapping community detection in large networks from a data fusion view. 2014 ,		
1662	General optimization technique for high-quality community detection in complex networks. <i>Physical Review E</i> , 2014 , 90, 012811	2.4	82
1661	Community detection in networks: Structural communities versus ground truth. <i>Physical Review E</i> , 2014 , 90, 062805	2.4	126
1660	Clustering dynamics of complex discrete-time networks and its application in community detection. 2014 , 24, 033104		25
1659	Hierarchical Block Structures and High-Resolution Model Selection in Large Networks. 2014 , 4,		117
1658	Improving the performance of algorithms to find communities in networks. <i>Physical Review E</i> , 2014 , 89, 032809	2.4	14
1657	Community Detection in Quantum Complex Networks. 2014 , 4,		19
1656	Nonparametric resampling of random walks for spectral network clustering. <i>Physical Review E</i> , 2014 , 89, 012802	2.4	13
1655	A compression optimization algorithm for community detection. 2014 ,		
1654	Scalable detection of statistically significant communities and hierarchies, using message passing for modularity. 2014 , 111, 18144-9		89
1653	Empirical evaluation of applying ensemble ranking to ego-centered communities identification in complex networks. 2014 ,		5
1652	Detecting overlapping communities in massive networks. 2014 , 108, 68001		5

1651	A Novel Approach for Detecting Community Structure in Networks. 2014 ,	1
1650	Community Detection and Visualization of Networks with the Map Equation Framework. 2014 , 3-34	41
1649	An efficient community detection algorithm using greedy surprise maximization. 2014 , 47, 165101	12
1648	A FRAMEWORK FOR COMMUNITY DETECTION IN HETEROGENEOUS MULTI-RELATIONAL NETWORKS. 2014 , 17, 1450018	14
1647	Analyzing future communities in growing citation networks. 2014 , 69, 34-44	18
1646	Two-stage algorithm using influence coefficient for detecting the hierarchical, non-overlapping and overlapping community structure. 2014 , 408, 47-61	12
1645	Spatiotemporal positioning of multipotent modules in diverse biological networks. 2014 , 71, 2605-24	7
1644	G-Tries: a data structure for storing and finding subgraphs. 2014 , 28, 337-377	40
1643	Generalised blockmodelling of social and relational networks using evolutionary computing. 2014 , 4, 1	4
1642	A self-organized approach for detecting communities in networks. 2014 , 4, 1	3
1641	Weighting links based on edge centrality for community detection. 2014 , 394, 346-357	24
1640	Mixing local and global information for community detection in large networks. 2014 , 80, 72-87	87
1639	Community detection in social networks using hybrid merging of sub-communities. 2014 , 40, 73-84	25
1638	Novel heuristic density-based method for community detection in networks. 2014 , 403, 71-84	31
1637	Identifying and ranking influential spreaders in complex networks by neighborhood coreness. 2014 , 395, 549-559	215
1636	Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. 2014 , 272, 160-174	64
1635	Community detection in networks via a spectral heuristic based on the clustering coefficient. 2014 , 176, 89-99	37
1634	Edge Weight Method for Community Detection in Scale-Free Networks. 2014 ,	1

1633 All for one, one for all: Consensus community detection in networks. **2014**,

1632 IncOrder: Incremental density-based community detection in dynamic networks. **2014**, 72, 1-12 23

1631 BNEM: a fast community detection algorithm using generative models. **2014**, 4, 1

1630 . **2014**, 1

1629 Semi-supervised community detection based on discrete potential theory. **2014**, 416, 173-182 15

1628 Detecting community structure via the maximal sub-graphs and belonging degrees in complex networks. **2014**, 416, 198-207 37

1627 An Evolutionary Multiobjective Approach for Community Discovery in Dynamic Networks. **2014**, 26, 1838-1852 147

1626 Community detection by graph Voronoi diagrams. **2014**, 16, 063007 17

1625 Improving data forwarding in Mobile Social Networks with infrastructure support: A space-crossing community approach. **2014**, 12

1624 Graph Wavelets for Multiscale Community Mining. **2014**, 62, 5227-5239 78

1623 Community analysis in directed networks: in-, out-, and pseudocommunities. *Physical Review E*, **2014**, 89, 012814 2.4 8

1622 Exploring community structure in biological networks with random graphs. **2014**, 15, 220 50

1621 Optimal network modularity for information diffusion. **2014**, 113, 088701 161

1620 . **2014**, 2

1619 Bootstrapping on undirected binary networks via statistical mechanics. **2014**, 156, 823-842 7

1618 A paradox in community detection. **2014**, 106, 38001 27

1617 Unsupervised analysis of top-k core members in poly-relational networks. **2014**, 41, 5689-5701 2

1616 Time-series analysis of networks: exploring the structure with random walks. *Physical Review E*, **2014**, 90, 022804 2.4 21

1615	A Review on Applications of Graph Theory in Network Analysis of Biological Processes. 2014 , 6, 27-43	1
1614	Fast layout computation of clustered networks: Algorithmic advances and experimental analysis. 2014 , 260, 185-199	25
1613	. 2014 , 1, 46-65	127
1612	Group detection in complex networks: An algorithm and comparison of the state of the art. 2014 , 397, 144-156	19
1611	Closed walks for community detection. 2014 , 397, 129-143	10
1610	Ranking the spreading ability of nodes in complex networks based on local structure. 2014 , 403, 130-147	107
1609	Complex Network Clustering by Multiobjective Discrete Particle Swarm Optimization Based on Decomposition. 2014 , 18, 82-97	262
1608	Global core, and galaxy structure of networks. 2014 , 57, 1-20	1
1607	Techniques for Edge Stratification of Complex Graph Drawings. 2014 , 25, 533-543	5
1606	. 2014 , 9, 58-69	8
1605	Functional network organizations of two contrasting temperament groups in dimensions of novelty seeking and harm avoidance. 2014 , 1575, 33-44	22
1604	Graph clusterings with overlaps: Adapted quality indices and a generation model. 2014 , 123, 13-22	9
1603	A Biclustering Framework for Consensus Problems. 2014 , 7, 2488-2525	8
1602	Community Detection in Complex Networks Using Coupled Kuramoto Oscillators. 2014 ,	1
1601	A neighborhood vector propagation algorithm for community detection. 2014 ,	2
1600	Walk-modularity and community structure in networks. 2015 , 3, 348-360	12
1599	Relative centrality and local community detection. 2015 , 3, 445-479	12
1598	Evaluating accuracy of community detection using the relative normalized mutual information. 2015 , 2015, P11006	34

1597	Enhanced lasso recovery on graph. 2015,		1
1596	A Novel Edge Weighting Method to Enhance Network Community Detection. 2015,		2
1595	Near Linear-Time Community Detection in Networks with Hardly Detectable Community Structure. 2015,		2
1594	Algorithm independent bounds on community detection problems and associated transitions in stochastic block model graphs. 2015, 3, 333-360		4
1593	Detecting communities based on network topology. 2014, 4, 5739		38
1592	Effect of externality in multiplex networks on one-layer synchronization. 2015, 66, 1777-1782		5
1591	Benchmark model to assess community structure in evolving networks. <i>Physical Review E</i> , 2015, 92, 012805	4.4	45
1590	Detecting communities using asymptotical surprise. <i>Physical Review E</i> , 2015, 92, 022816	2.4	44
1589	Mesosopic structures reveal the network between the layers of multiplex data sets. <i>Physical Review E</i> , 2015, 92, 042806	2.4	22
1588	High-Reproducibility and High-Accuracy Method for Automated Topic Classification. 2015, 5,		28
1587	Model Selection and Hypothesis Testing for Large-Scale Network Models with Overlapping Groups. 2015, 5,		35
1586	Discovering Academic Communities and their Research Interests. 2015, 743, 607-611		
1585	Leveraging disjoint communities for detecting overlapping community structure. 2015, 2015, P05017		16
1584	Faster unfolding of communities: speeding up the Louvain algorithm. <i>Physical Review E</i> , 2015, 92, 032801	1.4	50
1583	Community Detection in Signed Networks: the Role of Negative ties in Different Scales. 2015, 5, 14339		32
1582	Fast community structure local uncovering by independent vertex-centred process. 2015,		1
1581	Active link selection for efficient semi-supervised community detection. 2015, 5, 9039		17
1580	Identifying robust communities and multi-community nodes by combining top-down and bottom-up approaches to clustering. 2015, 5, 16361		47

1579	Robust local community detection. 2015 , 8, 798-809	83
1578	Local multiresolution order in community detection. 2015 , 2015, P01001	5
1577	Uncovering the Small Community Structure in Large Networks. 2015 ,	56
1576	On the relationship between Gaussian stochastic blockmodels and label propagation algorithms. 2015 , 2015, P03009	6
1575	A unified data representation theory for network visualization, ordering and coarse-graining. 2015 , 5, 13786	9
1574	Community Influence Analysis Based on Social Network Structures. 2015 ,	4
1573	Learning Representations in Directed Networks. 2015 , 196-207	1
1572	Community detection with the weighted parsimony criterion. 2015 , 28, 517-545	1
1571	Which models are used in social simulation to generate social networks? a review of 17 years of publications in JASSS. 2015 ,	10
1570	Network structure exploration via Bayesian nonparametric models. 2015 , 2015, P10004	4
1569	. 2015 ,	6
1568	The comparison of significance of fuzzy community partition across optimization methods. 2015 , 29, 2707-2715	2
1567	A stochastic model for detecting overlapping and hierarchical community structure. 2015 , 10, e0119171	12
1566	Generating attributed networks with communities. 2015 , 10, e0122777	31
1565	A modularity-based method reveals mixed modules from chemical-gene heterogeneous network. 2015 , 10, e0125585	2
1564	Multi-objective community detection based on memetic algorithm. 2015 , 10, e0126845	26
1563	A Novel Top-k Strategy for Influence Maximization in Complex Networks with Community Structure. 2015 , 10, e0145283	27
1562	Hybrid Self-Adaptive Algorithm for Community Detection in Complex Networks. 2015 , 2015, 1-12	1

1561	Effective Semisupervised Community Detection Using Negative Information. 2015 , 2015, 1-8	1
1560	Identification of hybrid node and link communities in complex networks. 2015 , 5, 8638	28
1559	CenLP: A centrality-based label propagation algorithm for community detection in networks. 2015 , 436, 767-780	22
1558	Community structure mining in big data social media networks with MapReduce. 2015 , 18, 999-1010	32
1557	Semi-supervised Community Detection Framework Based on Non-negative Factorization Using Individual Labels. 2015 , 349-359	4
1556	Community Detection Based on Minimum-Cut Graph Partitioning. 2015 , 57-69	2
1555	Modeling influence diffusion to uncover influence centrality and community structure in social networks. 2015 , 5, 1	4
1554	Unveiling the structure of multi-attributed networks via joint non-negative matrix factorization. 2015 ,	5
1553	Modeling community detection using slow mixing random walks. 2015 ,	1
1552	Community detection in social networks. 2015 , 8, 998-1009	97
1551	Selecting multiple network spreaders based on community structure using two-phase evolutionary framework. 2015 ,	
1550	A nature-inspired metaheuristic Lion Optimization Algorithm for community detection. 2015 ,	7
1549	Tracking the evolution of community structures in time-evolving social networks. 2015 ,	12
1548	Evaluation of Community Mining Algorithms in the Presence of Attributes. 2015 , 152-163	1
1547	Reinventing the Triangles: Rule of Thumb for Assessing Detectability. 2015 ,	
1546	Community-based immunization strategies for epidemic control. 2015 ,	15
1545	. 2015 ,	
1544	. 2015 ,	1

1543	Dynamic Community Detection Algorithm Based on Incremental Identification. 2015 ,		9
1542	Structure-Preserving Sparsification of Social Networks. 2015 ,		14
1541	Enhancing the Utility of Community Detection Research. 2015 , 3, 4098-4105		
1540	Paradigmatic Clustering for NLP. 2015 ,		1
1539	Community detection in social networks using ant colony algorithm and fuzzy clustering. 2015 ,		5
1538	HLEPA: A hybrid label propagation algorithm to find communities in large-scale networks. 2015 ,		3
1537	Social significance of community structure: statistical view. <i>Physical Review E</i> , 2015 , 91, 012801	2.4	100
1536	Detecting overlapping communities in networks via dominant label propagation. 2015 , 24, 018703		14
1535	Large-scale community detection based on node membership grade and sub-communities integration. 2015 , 428, 279-294		31
1534	Think locally, act locally: detection of small, medium-sized, and large communities in large networks. <i>Physical Review E</i> , 2015 , 91, 012821	2.4	67
1533	A framework of mapping undirected to directed graphs for community detection. 2015 , 298, 330-343		13
1532	Label propagation algorithm based on local cycles for community detection. 2015 , 29, 1550029		26
1531	Impact of heterogeneous activity and community structure on the evolutionary success of cooperators in social networks. <i>Physical Review E</i> , 2015 , 91, 012802	2.4	24
1530	Robustness of community structure to node removal. 2015 , 2015, P03003		9
1529	Fast Disjoint and Overlapping Community Detection. 2015 , 153-179		3
1528	Investigating community structure in perspective of ego network. 2015 , 42, 6913-6934		36
1527	Visualizing network communities with a semi-definite programming method. 2015 , 321, 1-13		6
1526	A similarity-based community detection method with multiple prototype representation. 2015 , 438, 519-531		10

1525	Fast Algorithms for the Maximum Clique Problem on Massive Graphs with Applications to Overlapping Community Detection. 2015 , 11, 421-448	24
1524	Memetic algorithm with simulated annealing strategy and tightness greedy optimization for community detection in networks. 2015 , 34, 485-501	43
1523	Controllability and modularity of complex networks. 2015 , 325, 20-32	23
1522	A Flexible Fitness Function for Community Detection in Complex Networks. 2015 , 1-12	2
1521	Identifying Modular Flows on Multilayer Networks Reveals Highly Overlapping Organization in Interconnected Systems. 2015 , 5,	120
1520	Leveraging social networks for efficient hurricane evacuation. 2015 , 77, 199-212	25
1519	Multi-resolution community detection based on generalized self-loop rescaling strategy. 2015 , 432, 127-139	26
1518	Social Networking Reduces Peak Power Consumption in Smart Grid. 2015 , 6, 1403-1413	16
1517	Community detection using local neighborhood in complex networks. 2015 , 436, 665-677	54
1516	Defining and identifying cograph communities in complex networks. 2015 , 17, 013044	27
1515	Density shrinking algorithm for community detection with path based similarity. 2015 , 433, 218-228	20
1514	Active semisupervised community detection based on asymmetric similarity measure. 2015 , 29, 1550078	2
1513	A Unified Semi-Supervised Community Detection Framework Using Latent Space Graph Regularization. 2015 , 45, 2585-98	101
1512	Group Types in Social Media. 2015 , 97-134	4
1511	A Co-ranking Framework to Select Optimal Seed Set for Influence Maximization in Heterogeneous Network. 2015 , 141-153	2
1510	Modeling Evolutionary Group Search Optimization Approach for Community Detection in Social Networks. 2015 ,	4
1509	Community Discovery: Simple and Scalable Approaches. 2015 , 23-54	5
1508	From Local to Global Communities in Large Networks Through Consensus. 2015 , 659-666	1

1507	Community detection in multiplex social networks. 2015,	4
1506	Spectral clustering of large-scale communities via random sketching and validation. 2015,	1
1505	What Is a Network Community?. 2015,	5
1504	Interpreting communities based on the evolution of a dynamic attributed network. 2015, 5, 1	7
1503	Wealth distribution across communities of adaptive financial agents. 2015, 17, 083003	4
1502	Generalized Modularity for Community Detection. 2015, 655-670	1
1501	Community detection based on strong Nash stable graph partition. 2015, 5, 1	11
1500	Global and local targeted immunization in networks with community structure. 2015, 2015, P08010	15
1499	Network Structural Balance Based on Evolutionary Multiobjective Optimization: A Two-Step Approach. 2015, 19, 903-916	34
1498	Generalization of clustering agreements and distances for overlapping clusters and network communities. 2015, 29, 1458-1485	8
1497	A comprehensive comparison of graph theory metrics for social networks. 2015, 5, 1	3
1496	A parameter-free community detection method based on centrality and dispersion of nodes in complex networks. 2015, 438, 321-334	37
1495	A Naming Game with Secondary Memory for Community Detection. 2015,	2
1494	Community Detection based on Distance Dynamics. 2015,	77
1493	Community Detection as Pattern Restoration by Attractor Neural-Network Dynamics. 2015, 197-207	
1492	Identifying community structure in complex networks. 2015, 29, 1550131	
1491	Label propagation based evolutionary clustering for detecting overlapping and non-overlapping communities in dynamic networks. 2015, 89, 487-496	19
1490	Overlapping community identification approach in online social networks. 2015, 421, 233-248	15

1489	Median evidential c-means algorithm and its application to community detection. 2015 , 74, 69-88	52
1488	Mining overlapping and hierarchical communities in complex networks. 2015 , 421, 25-33	18
1487	Greedy discrete particle swarm optimization for large-scale social network clustering. 2015 , 316, 503-516	78
1486	Empirical evaluation of applying ensemble methods to ego-centred community identification in complex networks. 2015 , 150, 417-427	13
1485	An information-theoretic approach for detecting communities in networks. 2015 , 49, 1719-1733	2
1484	Detecting community structure via synchronous label propagation. 2015 , 151, 1063-1075	25
1483	A hybrid artificial immune network for detecting communities in complex networks. 2015 , 97, 483-507	25
1482	Inferring overlapping community structure with degree-corrected block model. 2015 , 419, 48-54	3
1481	Community detection by fuzzy clustering. 2015 , 419, 408-416	26
1480	A cellular learning automata based algorithm for detecting community structure in complex networks. 2015 , 151, 1216-1226	36
1479	Prediction of missing links based on multi-resolution community division. 2015 , 417, 76-85	22
1478	Detecting overlapping and hierarchical communities in complex network using interaction-based edge clustering. 2015 , 417, 46-56	17
1477	Detection of network communities with memory-biased random walk algorithms. 2016 , cnw007	2
1476	Bayesian degree-corrected stochastic blockmodels for community detection. 2016 , 10,	6
1475	A Neighborhood-Impact Based Community Detection Algorithm via Discrete PSO. 2016 , 2016, 1-15	7
1474	Local Community Detection Algorithm Based on Minimal Cluster. 2016 , 2016, 1-11	5
1473	Semisupervised Community Detection by Voltage Drops. 2016 , 2016, 1-10	0
1472	A Monte Carlo Evaluation of Weighted Community Detection Algorithms. 2016 , 10, 45	28

1471	Analysis of Network Clustering Algorithms and Cluster Quality Metrics at Scale. 2016 , 11, e0159161	87
1470	Z-Score-Based Modularity for Community Detection in Networks. 2016 , 11, e0147805	17
1469	A Comparative Analysis of Community Detection Algorithms on Artificial Networks. 2016 ,	2
1468	Circularly Searching Core Nodes Based Label Propagation Algorithm for Community Detection. 2016 , 30, 1659024	8
1467	A link density clustering algorithm based on automatically selecting density peaks for overlapping community detection. 2016 , 30, 1650167	9
1466	Remember where you came from. 2016 , 10, 13-24	16
1465	A fast simulated annealing strategy for community detection in complex networks. 2016 ,	2
1464	Estimation of Distribution Algorithm with Local Sampling Strategy for Community Detection in Complex Networks. 2016 , 85, 124005	
1463	Limited random walk algorithm for big graph data clustering. 2016 , 3,	15
1462	Dynamic community detection based on distance dynamics. 2016 ,	3
1461	Link community detection by non-negative matrix factorization with multi-step similarities. 2016 , 30, 1650370	3
1460	Local Community Detection via Edge Weighting. 2016 , 68-80	2
1459	Dynamic Clustering in Social Networks Using Louvain and Infomap Method. 2016 ,	6
1458	A Spectral Clustering Approach Based on Modularity Maximization for Community Detection Problem. 2016 ,	7
1457	Overlapping Community Detection by Local Decentralised Vertex-Centred Process. 2016 ,	
1456	A multi-agent genetic algorithm for local community detection by extending the tightest nodes. 2016 ,	4
1455	Finding network communities using modularity density. 2016 , 2016, 123402	15
1454	Multi-objective population-based incremental learning for community structure detection. 2016 ,	

1453	Densification and structural transitions in networks that grow by node copying. <i>Physical Review E</i> , 2016 , 94, 062302	2.4	12
1452	An information theoretic approach to generalised blockmodelling for the identification of meso-scale structure in networks. 2016 ,		1
1451	Multi-resolution community detection in massive networks. 2016 , 6, 38998		13
1450	Community detection in complex networks based on DBSCAN* and a Martingale process. 2016 ,		3
1449	Detecting fuzzy network communities based on semi-supervised label propagation. 2016 , 31, 2887-2893		5
1448	Community detection in graphs based on surprise maximization using firefly heuristics. 2016 ,		7
1447	Two betweenness centrality measures based on Randomized Shortest Paths. 2016 , 6, 19668		34
1446	Accelerating the distributed simulations of agent-based models using community detection. 2016 ,		1
1445	Motif-based embedding for graph clustering. 2016 , 2016, 123401		3
1444	Structural measures of clustering quality on graph samples. 2016 ,		4
1443	The impact of human relationship on bankruptcy-related evolution of inter-firm trade network. 2016 ,		1
1442	Dynamical detection of network communities. 2016 , 6, 25570		15
1441	Finding Communities by Their Centers. 2016 , 6, 24017		17
1440	Community detection by label propagation with compression of flow. 2016 , 89, 1		12
1439	Ground truth? Concept-based communities versus the external classification of physics manuscripts. 2016 , 5,		10
1438	Enhancing community detection by using local structural information. 2016 , 2016, 033405		15
1437	In a World That Counts. 2016 ,		19
1436	Statistical significance across multiple optimization models for community partition. 2016 , 30, 1650187		2

1435	Community detection in networks based on minimum spanning tree and modularity. 2016 , 460, 230-234	23
1434	Consensus Clustering Approach for Discovering Overlapping Nodes in Social Networks. 2016 ,	1
1433	Imbalance problem in community detection. 2016 , 457, 364-376	4
1432	. 2016 , 28, 2349-2362	142
1431	Comparison of module detection algorithms in protein networks and investigation of the biological meaning of predicted modules. 2016 , 17, 129	19
1430	An improved label propagation algorithm using average node energy in complex networks. 2016 , 460, 98-104	8
1429	Detecting Network Community by Propagating Labels Based on Contact-Specific Constraint. 2016 , 697-705	1
1428	Using a two-phase evolutionary framework to select multiple network spreaders based on community structure. 2016 , 461, 840-853	1
1427	Surveying traffic congestion based on the concept of community structure of complex networks. 2016 , 27, 1650149	3
1426	A new multi-objective evolutionary framework for community mining in dynamic social networks. 2016 , 31, 90-109	15
1425	Enhancing Group Search Optimization with Node Similarities for Detecting Communities. 2016 , 303-316	1
1424	Global Community Connectivity of Complex Networks. 2016 , 319-329	
1423	Overlapping community detection using weighted consensus clustering. 2016 , 87, 1	1
1422	Growing Neural Gas as a Memory Mechanism of a Heuristic to Solve a Community Detection Problem in Networks. 2016 , 96, 485-494	3
1421	A scalable geometric algorithm for community detection from social networks with incremental update. 2016 , 6, 1	4
1420	Community detection in networks: A user guide. 2016 , 659, 1-44	931
1419	A fuzzy adaptive resonance theory inspired overlapping community detection method for online social networks. 2016 , 113, 75-87	9
1418	A local fuzzy method based on β -strong community for detecting communities in networks. 2016 , 25, 068901	

1417	Feature identification for predicting community evolution in dynamic social networks. 2016 , 55, 202-218		21
1416	Comparison of Graph Node Distances on Clustering Tasks. 2016 , 192-201		14
1415	A Novel Algorithm for Detecting Social Clusters and Hierarchical Structure in Industrial IoT. 2016 , 166-178		
1414	Detecting Hierarchical Communities in Networks: A New Approach. 2016 , 19-37		1
1413	A self-organizing algorithm for community structure analysis in complex networks. 2016 ,		0
1412	A corrected normalized mutual information for performance evaluation of community detection. 2016 , 2016, 093403		7
1411	Genetic algorithm optimizing modularity for community detection in complex networks. 2016 ,		5
1410	Highly efficient epidemic spreading model based LPA threshold community detection method. 2016 , 210, 3-12		12
1409	Semantic Divergence Based Evaluation of Web Service Communities. 2016 ,		
1408	Traveling salesman problems with PageRank Distance on complex networks reveal community structure. 2016 , 463, 293-302		8
1407	CoDAR. 2016 ,		1
1406	Detecting communities in complex networks-A discrete hybrid evolutionary approach. 2016 , 38, 29-40		1
1405	Comprehensive spectral approach for community structure analysis on complex networks. <i>Physical Review E</i> , 2016 , 93, 022301	2.4	1
1404	Emergence of coexisting percolating clusters in networks. <i>Physical Review E</i> , 2016 , 93, 062308	2.4	7
1403	Enhanced Detectability of Community Structure in Multilayer Networks through Layer Aggregation. 2016 , 116, 228301		48
1402	A divisive spectral method for network community detection. 2016 , 2016, 033403		19
1401	Improving Node Similarity for Discovering Community Structure in Complex Networks. 2016 , 74-85		1
1400	Contagion processes on the static and activity-driven coupling networks. <i>Physical Review E</i> , 2016 , 93, 032308	2.4	20

1399	Eigenvector dynamics under perturbation of modular networks. <i>Physical Review E</i> , 2016 , 93, 062312	2.4	4
1398	A Comparative Analysis of Community Detection Algorithms on Artificial Networks. 2016 , 6, 30750		290
1397	An Improved Genetic-Based Link Clustering for Overlapping Community Detection. 2016 , 142-151		
1396	Network Structure, Metadata, and the Prediction of Missing Nodes and Annotations. 2016 , 6,		27
1395	Network community degree based fast community detection algorithm for fMRI data. 2016 ,		
1394	Application of Graph Sparsification in Developing Parallel Algorithms for Updating Connected Components. 2016 ,		4
1393	A Community Detection Algorithm Considering Edge Betweenness and Vertex Similarity. 2016 , 243-251		
1392	A Novel Approach of Discovering Local Community Using Node Vector Model. 2016 , 513-521		
1391	A Novel Method of Influence Ranking via Node Degree and H-index for Community Detection. 2016 , 149-160		1
1390	Terminal-set-enhanced community detection in social networks. 2016 ,		4
1389	Discovering communities in complex networks by edge label propagation. 2016 , 6, 22470		30
1388	A Link Strength Based Label Propagation Algorithm for Community Detection. 2016 ,		3
1387	An Improved Community Detection Algorithm Based on the Distance Dynamics. 2016 ,		4
1386	Maximal Neighbor Similarity Reveals Real Communities in Networks. 2015 , 5, 18374		17
1385	Constant-Time Algorithms for Complex Networks. 2016 ,		0
1384	Edge pruning based community detection. 2016 ,		
1383	A framework for analyzing community detection algorithms. 2016 ,		2
1382	Automatic Threshold Calculation Based Label Propagation Algorithm for Overlapping Community. 2016 ,		1

1381	Efficiency-modularity for finding communities and anticommunities in networks. 2016 , cnw012	0
1380	Generating Data for Testing Community Detection Algorithms. 2016 , 401-409	
1379	Enhanced community detection in social networks using active spectral clustering. 2016 ,	4
1378	Accelerating the mining of influential nodes in complex networks through community detection. 2016 ,	6
1377	GenPerm: A Unified Method for Detecting Non-Overlapping and Overlapping Communities. 2016 , 28, 2101-2114	24
1376	Identification of influential nodes in social networks with community structure based on label propagation. 2016 , 210, 34-44	61
1375	Weighted modularity optimization for crisp and fuzzy community detection in large-scale networks. 2016 , 462, 386-395	49
1374	A Michigan memetic algorithm for solving the community detection problem in complex network. 2016 , 214, 535-545	28
1373	Parallel Community Detection Algorithm Using a Data Partitioning Strategy with Pairwise Subdomain Duplication. 2016 , 98-115	4
1372	A model framework for the enhancement of community detection in complex networks. 2016 , 461, 602-612	8
1371	Cannibalism in medical topic networks. 2016 , 108, 168-178	2
1370	Big Network Analytics Based on Nonconvex Optimization. 2016 , 345-373	1
1369	A multiobjective evolutionary algorithm to find community structures based on affinity propagation. 2016 , 453, 203-227	42
1368	Local community detection as pattern restoration by attractor dynamics of recurrent neural networks. 2016 , 146, 85-90	1
1367	An integrative analysis of gene expression and molecular interaction data to identify dys-regulated sub-networks in inflammatory bowel disease. 2016 , 17, 42	13
1366	Identifying influential nodes in dynamic social networks based on degree-corrected stochastic block model. 2016 , 30, 1650092	6
1365	Community detection enhancement using non-negative matrix factorization with graph regularization. 2016 , 30, 1650130	6
1364	CHIMERA: Top-down model for hierarchical, overlapping and directed cluster structures in directed and weighted complex networks. 2016 , 461, 384-408	6

1363	BLOCKS: Efficient and Stable Online Visualization of Dynamic Network Evolution. 2016 , 10, 33-51	
1362	An embedding approach to anomaly detection. 2016 ,	24
1361	Community detection using nonnegative matrix factorization with orthogonal constraint. 2016 ,	0
1360	A Multiagent Evolutionary Method for Detecting Communities in Complex Networks. 2016 , 32, 587-614	4
1359	. 2016 , 27, 171-184	77
1358	Unified Photo Enhancement by Discovering Aesthetic Communities From Flickr. 2016 , 25, 1124-35	65
1357	The adaptive dynamic community detection algorithm based on the non-homogeneous random walking. 2016 , 450, 241-252	18
1356	Data heterogeneity consideration in semi-supervised learning. 2016 , 45, 234-247	4
1355	A new algorithm CNM-Centrality of detecting communities based on node centrality. 2016 , 446, 138-151	12
1354	Detecting one-mode communities in bipartite networks by bipartite clustering triangular. 2016 , 457, 307-315	28
1353	Centrality measures for networks with community structure. 2016 , 452, 46-59	48
1352	Case Study of Network-Based Unsupervised Learning: Stochastic Competitive Learning in Networks. 2016 , 241-290	
1351	Case Study of Network-Based Semi-Supervised Learning: Stochastic Competitive-Cooperative Learning in Networks. 2016 , 291-321	1
1350	A consensus graph clustering algorithm for directed networks. 2016 , 54, 121-135	13
1349	Network-Based Unsupervised Learning. 2016 , 143-180	1
1348	Prediction of missing links based on community relevance and ruler inference. 2016 , 98, 200-215	42
1347	A multi-agent genetic algorithm for community detection in complex networks. 2016 , 449, 336-347	52
1346	Distributed learning automata-based algorithm for community detection in complex networks. 2016 , 30, 1650042	35

1345	A multi-objective discrete cuckoo search algorithm with local search for community detection in complex networks. 2016 , 30, 1650080	16
1344	Adaptive Disentanglement based on Local Clustering in Small-World Network Visualization. 2016 , 22, 1662-1671	10
1343	Community Detection in Multi-Partite Multi-Relational Networks Based on Information Compression. 2016 , 34, 153-176	1
1342	Estimating the optimal number of communities by cluster analysis. 2016 , 30, 1650037	3
1341	Integrated structure investigation in complex networks by label propagation. 2016 , 448, 68-80	17
1340	Fuzzy community detection via modularity guided membership-degree propagation. 2016 , 70, 66-72	21
1339	Modular Brain Networks. 2016 , 67, 613-40	647
1338	Improving the performance of evolutionary multi-objective co-clustering models for community detection in complex social networks. 2016 , 26, 137-156	20
1337	Detecting global bridges in networks. 2016 , 4, 319-329	24
1336	Community Detection in Bipartite Networks: Algorithms and Case studies. 2016 , 25-50	25
1335	A novel multiobjective particle swarm optimization algorithm for signed network community detection. 2016 , 44, 621-633	20
1334	An improved multi-objective evolutionary algorithm for simultaneously detecting separated and overlapping communities. 2016 , 15, 635-651	9
1333	Community Detection Utilizing a Novel Multi-swarm Fruit Fly Optimization Algorithm with Hill-Climbing Strategy. 2016 , 41, 807-828	16
1332	Subspace Based Network Community Detection Using Sparse Linear Coding. 2016 , 28, 801-812	47
1331	Automatic network clustering via density-constrained optimization with grouping operator. 2016 , 38, 606-616	16
1330	Local modularity for community detection in complex networks. 2016 , 443, 451-459	43
1329	Parallel community detection on large graphs with MapReduce and GraphChi. 2016 , 104, 17-31	20
1328	Multiobjective local search for community detection in networks. 2016 , 20, 3273-3282	15

1327	Efficiently detecting overlapping communities using seeding and semi-supervised learning. 2017 , 8, 455-468	5
1326	Overlapping community detection in complex networks using multi-objective evolutionary algorithm. 2017 , 36, 749-768	15
1325	Finding overlapping communities based on Markov chain and link clustering. 2017 , 10, 411-420	33
1324	LinkLPA: A Link-Based Label Propagation Algorithm for Overlapping Community Detection in Networks. 2017 , 33, 308-331	21
1323	A Community Structure-Based Approach for Network Immunization. 2017 , 33, 77-98	6
1322	Exploring triad-rich substructures by graph-theoretic characterizations in complex networks. 2017 , 468, 53-69	3
1321	Are We Birds of the Same Feather?. 2017 ,	
1320	Evolutionary algorithm and modularity for detecting communities in networks. 2017 , 473, 89-96	24
1319	A parameter selection method of the deterministic anti-annealing algorithm for network exploring. 2017 , 226, 192-199	1
1318	Survey of local and global biological network alignment: the need to reconcile the two sides of the same coin. 2018 , 19, 472-481	41
1317	Stepping community detection algorithm based on label propagation and similarity. 2017 , 472, 145-155	31
1316	Dynamic community detection based on network structural perturbation and topological similarity. 2017 , 2017, 013401	20
1315	Community-based link prediction. 2017 , 76, 18619-18639	17
1314	GA-LP: A genetic algorithm based on Label Propagation to detect communities in directed networks. 2017 , 74, 127-138	15
1313	A Deep Stochastic Model for Detecting Community in Complex Networks. 2017 , 166, 230-243	3
1312	An ensemble framework for community detection. 2017 , 5, 1-5	18
1311	Scalable and Efficient Flow-Based Community Detection for Large-Scale Graph Analysis. 2017 , 11, 1-30	17
1310	The many facets of community detection in complex networks. 2017 , 2, 4	86

1309	Understanding the controllability of complex networks from the microcosmic to the macrocosmic. 2017 , 19, 013022	8
1308	Network clustering and community detection using modulus of families of loops. <i>Physical Review E</i> , 2017 , 95, 012316	2.4 8
1307	Community Detection in Bipartite Networks Using a Noisy Extremal Optimization Algorithm. 2017 , 871-878	
1306	Stochastic graph Voronoi tessellation reveals community structure. <i>Physical Review E</i> , 2017 , 95, 022306	2.4 0
1305	IEDC: An integrated approach for overlapping and non-overlapping community detection. 2017 , 123, 188-199	32
1304	Learning community structures: Global and local perspectives. 2017 , 239, 249-256	12
1303	Two-phase network generation towards within-network classifiers evaluation. 2017 , 120, 173-185	
1302	Meaningful communities detection in medias network. 2017 , 7, 1	7
1301	. 2017 , 19, 1881-1893	26
1300	Community detection in the textile-related trade network using a biased estimation of distribution algorithm. 2017 , 1	4
1299	Large-scale community detection based on a new dissimilarity measure. 2017 , 7, 1	7
1298	Utilizing advances in correlation analysis for community structure detection. 2017 , 84, 74-91	3
1297	Betweenness centrality updation and community detection in streaming graphs using incremental algorithm. 2017 ,	2
1296	A seed-expanding method based on random walks for community detection in networks with ambiguous community structures. 2017 , 7, 41830	20
1295	Community detection in complex networks via adapted Kuramoto dynamics. 2017 , 53, 130-141	9
1294	A Centrality-Based Local-First Approach for Analyzing Overlapping Communities in Dynamic Networks. 2017 , 508-520	2
1293	A simple and efficient algorithm for modeling modular complex networks. 2017 , 482, 218-227	1
1292	Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. 2017 , 29, 2026-2039	14

1291	Community detection based on significance optimization in complex networks. 2017 , 2017, 053213	7
1290	Dominating communities for hierarchical control of complex networks. 2017 , 414, 247-259	8
1289	Ranking influential nodes in social networks based on node position and neighborhood. 2017 , 260, 466-477	60
1288	Topology of Complex Networks and Performance Limitations of Community Detection Algorithms. 2017 , 5, 10901-10914	11
1287	Comparing local modularity optimization for detecting communities in networks. 2017 , 28, 1750084	7
1286	Adaptive community detection in complex networks using genetic algorithms. 2017 , 266, 101-113	72
1285	APPLICATION OF CUT ALGORITHM BASED ON ALGEBRAIC CONNECTIVITY TO COMMUNITY DETECTION. 2017 , 20, 1750002	
1284	The structure of communities in scale-free networks. 2017 , 29, e4040	9
1283	Community detection in attributed networks based on heterogeneous vertex interactions. 2017 , 47, 1270-1281	5
1282	Controllability and observability of cascading failure networks. 2017 , 2017, 043404	3
1281	An algorithm Walktrap-SPM for detecting overlapping community structure. 2017 , 31, 1750121	3
1280	DANCer: dynamic attributed networks with community structure generation. 2017 , 53, 109-151	14
1279	Dynamics on networks: competition of temporal and topological correlations. 2017 , 7, 41627	16
1278	Group-Level Influence Maximization with Budget Constraint. 2017 , 625-641	7
1277	Complete graph model for community detection. 2017 , 471, 88-97	10
1276	Enhanced collective influence: A paradigm to optimize network disruption. 2017 , 472, 43-52	5
1275	Semi-supervised community detection based on non-negative matrix factorization with node popularity. 2017 , 381, 304-321	46
1274	Generating Scaled Replicas of Real-World Complex Networks. 2017 , 17-28	11

1273	Localization Based on Social Big Data Analysis in the Vehicular Networks. 2017 , 13, 1932-1940	53
1272	A Community Detection Algorithm Based on Local Double Rings and Fireworks Algorithm. 2017 , 129-135	2
1271	Dynamic Community Detection Algorithm Based on Automatic Parameter Adjustment. 2017 , 9-19	
1270	Modularity-Driven Kernel k-means for Community Detection. 2017 , 423-433	5
1269	A Unified Framework of Lightweight Local Community Detection for Different Node Similarity Measurement. 2017 , 283-295	1
1268	An evidential influence-based label propagation algorithm for distributed community detection in social networks. 2017 , 112, 407-416	8
1267	Understanding control of network spreading from network controllability. 2017 , 2017, 093405	2
1266	Preferential Placement for Community Structure Formation. 2017 , 75-89	1
1265	Community detection based on influence power. 2017 , 4,	3
1264	Super-Resolution Community Detection for Layer-Aggregated Multilayer Networks. 2017 , 7,	10
1263	A Parallel Self-Organizing Community Detection Algorithm Based on Swarm Intelligence for Large Scale Complex Networks. 2017 ,	3
1262	Community detection: Comparison among clustering algorithms and application to EEG-based brain networks. 2017 , 2017, 3965-3968	7
1261	The impact of interaction and algorithm choice on identified communities. 2017 ,	
1260	Assessing the suitability of network community detection to available meta-data using rank stability. 2017 ,	8
1259	SWIM. 2017 , 36, 1-33	6
1258	Effects of network modularity on the spread of perturbation impact in experimental metapopulations. 2017 , 357, 199-201	97
1257	An agent model to support social network-based palliative care. 2017 ,	1
1256	Context-aided analysis of community evolution in networks. 2017 , 10, 290-311	1

1255	An algorithm J-SC of detecting communities in complex networks. 2017 , 381, 3604-3612		7
1254	Community mining using three closely joint techniques based on community mutual membership and refinement strategy. 2017 , 61, 1060-1073		25
1253	Efficient method for estimating the number of communities in a network. <i>Physical Review E</i> , 2017 , 96, 032310	2.4	35
1252	An improved game-theoretic approach to uncover overlapping communities. 2017 , 28, 1750112		12
1251	Overlapping Community Detection Based on Random Walk and Seeds Extension. 2017 ,		4
1250	Knowledge acquisition: A Complex networks approach. 2017 , 421, 154-166		38
1249	Dominating complex networks by identifying minimum skeletons. 2017 , 104, 182-191		3
1248	Ensemble-based community detection in multilayer networks. 2017 , 31, 1506-1543		37
1247	A game-theoretic approach for non-overlapping communities detection. 2017 ,		
1246	Completeness of Community Structure in Networks. 2017 , 7, 5269		1
1245	Parallel quantum-inspired evolutionary algorithms for community detection in social networks. 2017 , 61, 331-353		14
1244	Community-based influence maximization in social networks under a competitive linear threshold model. 2017 , 134, 149-158		64
1243	Improving the Efficiency and Effectiveness of Community Detection via Prior-Induced Equivalent Super-Network. 2017 , 7, 634		10
1242	Node Attribute-enhanced Community Detection in Complex Networks. 2017 , 7, 2626		29
1241	Cross-validation estimate of the number of clusters in a network. 2017 , 7, 3327		12
1240	Optimizing sentinel surveillance in temporal network epidemiology. 2017 , 7, 4804		15
1239	On Minimal Steiner Maximum-Connected Subgraph Queries. 2017 , 29, 2455-2469		18
1238	Learning from Labeled and Unlabeled Vertices in Networks. 2017 ,		4

1237	Information diffusion on communication networks based on Big Data analysis. 2017 , 35, 745-757		5
1236	SA-SOM algorithm for detecting communities in complex networks. 2017 , 31, 1750262		2
1235	A Parallel Network Community Detection Algorithm Based on Distance Dynamics. 2017 ,		1
1234	GSO Based Heuristics for Identification of Communities and Their Leaders. 2017 , 99-127		2
1233	Drawing clustered graphs by preserving neighborhoods. 2017 , 100, 174-180		3
1232	Overlapping community detection based on discrete biogeography optimization. 2017 , 48, 1314		
1231	Community detection methods can discover better structural clusters than ground-truth communities. 2017 ,		3
1230	Worst-case test network optimization for community detection method. 2017 ,		1
1229	Hierarchical benchmark graphs for testing community detection algorithms. <i>Physical Review E</i> , 2017 , 96, 052311	2.4	8
1228	Overlapping Community Detection Based on Structural Centrality in Complex Networks. 2017 , 5, 25258-25269	28	
1227	Convergence of the Graph Allen-Lahn Scheme. 2017 , 167, 934-958		11
1226	Many-objective optimization for community detection in multi-layer networks. 2017 ,		10
1225	Weighting Links Based on Co-Occurrence Relationship for Community Detection Enhancement. 2017 ,		1
1224	A semi-synchronous label propagation algorithm with constraints for community detection in complex networks. 2017 , 7, 45836		18
1223	Social Cooperation and Disharmony in Communities Mediated through Common Pool Resource Exploitation. 2017 , 118, 208301		14
1222	Scalable and Interactive Graph Clustering Algorithm on Multicore CPUs. 2017 ,		14
1221	Outlier edge detection using random graph generation models and applications. 2017 , 4,		3
1220	Defining quality metrics for graph clustering evaluation. 2017 , 71, 1-17		8

1219	. 2017 , 3, 276-288	26
1218	Clustering of Links and Clustering of Nodes: Fusion of Knowledge in Social Networks. 2017 , 255-276	
1217	Detecting communities by asymmetric intimacy in directed-weighted network. 2017 , 28, 1750006	2
1216	Detecting community structure in complex networks using an interaction optimization process. 2017 , 465, 525-542	6
1215	A discrete modified fireworks algorithm for community detection in complex networks. 2017 , 46, 373-385	24
1214	Community Detection Using Dual-Representation Chemical Reaction Optimization. 2017 , 47, 4328-4341	13
1213	A local immunization strategy for networks with overlapping community structure. 2017 , 467, 148-156	20
1212	Identifying and ranking influential spreaders in complex networks with consideration of spreading probability. 2017 , 465, 312-330	33
1211	CoFIM: A community-based framework for influence maximization on large-scale networks. 2017 , 117, 88-100	87
1210	A heuristic local community detection method (HLCD). 2017 , 46, 62-78	23
1209	Using Geodesic Space Density Gradients for Network Community Detection. 2017 , 29, 921-935	24
1208	Community detection in networks using new update rules for label propagation. 2017 , 99, 679-700	1
1207	Community detection in weighted brain connectivity networks beyond the resolution limit. 2017 , 146, 28-39	36
1206	Clustering and Community Detection With Imbalanced Clusters. 2017 , 3, 61-76	5
1205	A Comparative Study of Different Approaches for Tracking Communities in Evolving Social Networks. 2017 ,	2
1204	An Algorithm Q-PSO for Community Detection in Complex Networks. 2017 ,	4
1203	Fast Heuristic Algorithm for Multi-scale Hierarchical Community Detection. 2017 ,	6
1202	Community mining algorithm of complex network based on memetic algorithm. 2017 ,	

1201	AnySCAN: An Efficient Anytime Framework with Active Learning for Large-Scale Network Clustering. 2017,	4
1200	SGVCut. 2017,	4
1199	Probabilistic Community Using Link and Content for Social Networks. 2017, 5, 27189-27202	7
1198	. 2017, 5, 19951-19960	26
1197	Overlapping Community Detection via Constrained PARAFAC: A Divide and Conquer Approach. 2017,	4
1196	A Fast Overlapping Community Detection Algorithm Based on Weak Cliques for Large-Scale Networks. 2017, 4, 218-230	31
1195	Node-centric Community Discovery: From static to dynamic social network analysis. 2017, 3-4, 32-48	6
1194	Community detection in complex networks using flow simulation. 2017,	
1193	Community detection algorithm with locally social spider optimized. 2017,	
1192	Community detection: Comparison of state of the art algorithms. 2017,	8
1191	Published Weighted Social Networks Privacy Preservation Based on Community Division. 2017,	0
1190	Generating realistic scaled complex networks. 2017, 2, 36	12
1189	. 2017,	1
1188	. 2017,	8
1187	GPU-Accelerated Graph Clustering via Parallel Label Propagation. 2017,	6
1186	Network entropy based overlapping community detection in social networks. 2017,	0
1185	Benchmark Generator for Dynamic Overlapping Communities in Networks. 2017,	3
1184	Performance of attack strategies on modular networks. 2017, 5, 913-923	6

1183	Network Modularity in Breast Cancer Molecular Subtypes. 2017 , 8, 915	22
1182	Community Detection Based on Differential Evolution Using Social Spider Optimization. 2017 , 9, 183	15
1181	Wiring the Past: A Network Science Perspective on the Challenge of Archeological Similarity Networks. 2017 , 4,	9
1180	Graph Analysis and Modularity of Brain Functional Connectivity Networks: Searching for the Optimal Threshold. 2017 , 11, 441	40
1179	Improving the Accuracy of Link Prediction Using Consensus Clustering. 2017 ,	1
1178	Heuristic Artificial Bee Colony Algorithm for Uncovering Community in Complex Networks. 2017 , 2017, 1-12	7
1177	A community detection algorithm using network topologies and rule-based hierarchical arc-merging strategies. 2017 , 12, e0187603	6
1176	Decentralized Iterative Community Clustering Approach (DICCA). 2017 ,	2
1175	Improved LFM algorithm in weighted network based on rand walk. 2017 ,	
1174	Tracking millions of query intents with StarrySky and its applications. 2017 , 15, 233-250	
1173	Community detection with spiking neural networks for neuromorphic hardware. 2017 ,	7
1172	Local Edge Betweenness Based Label Propagation for Community Detection in Complex Networks. 2017 ,	1
1171	Recovery conditions and sampling strategies for network Lasso. 2017 ,	2
1170	Common strategy to improve community detection performance based on the nodes' property. 2017 , 2, 68-72	3
1169	Analyzing the Potential Influence of Shanghai Stock Market Based on Link Prediction Method. 2017 , 5, 446-461	3
1168	Towards a property graph generator for benchmarking. 2017 ,	4
1167	WITHDRAWN: Leader-aware community detection in social networks. 2018 ,	
1166	Community Discovery in Dynamic Networks. 2018 , 51, 1-37	167

1165	Community detection in networks: A multidisciplinary review. 2018 , 108, 87-111	138
1164	Decoding communities in networks. <i>Physical Review E</i> , 2018 , 97, 022316	2.4 6
1163	The role of community structure on the nature of explosive synchronization. 2018 , 28, 033102	8
1162	Generalized relationships between characteristic path length, efficiency, clustering coefficients, and density. 2018 , 8, 1	15
1161	Incremental community miner for dynamic networks. 2018 , 48, 3372-3393	1
1160	A link clustering based memetic algorithm for overlapping community detection. 2018 , 503, 410-423	12
1159	Abstraction of meso-scale network architecture in granular ensembles using Big data analytics tools. 2018 , 2, 031004	3
1158	A Neighborhood Exploration Approach with Multi-start for Extend Generalized Block-modeling. 2018 , 66, 63-70	
1157	Community detection in networks using self-avoiding random walks. 2018 , 505, 1046-1055	8
1156	Community Detection in Complex Networks via Clique Conductance. 2018 , 8, 5982	23
1155	A robust two-stage algorithm for local community detection. 2018 , 152, 188-199	33
1154	Continuous state online influence maximization in social network. 2018 , 8, 1	4
1153	A noise reduction method for semi-supervised community detection based on harmonic function. 2018 , 32, 1850166	0
1152	A novel overlapping community detection using parallel CFM and sequential nash equilibrium. 2018 , ,	1
1151	Epidemic spreading in modular time-varying networks. 2018 , 8, 2352	57
1150	Reconstruction of networks from one-step data by matching positions. 2018 , 497, 118-125	2
1149	. 2018 , 20, 1462-1474	13
1148	FuzAg: Fuzzy Agglomerative Community Detection by Exploring the Notion of Self-Membership. 2018 , 26, 2568-2577	21

1147	Trust Degree can Preserve Community Structure on Co-evolving Complex Networks in Spatial Generalized Prisoner's Dilemma Game. 2018 , 102, 3089-3100	1
1146	Community Diff. 2018 , 12, 1-34	3
1145	Community Detection Using Diffusion Information. 2018 , 12, 1-22	12
1144	Community detection using preference networks. 2018 , 495, 126-136	15
1143	Constructing financial network based on PMFG and threshold method. 2018 , 495, 104-113	15
1142	A new hierarchical method to find community structure in networks. 2018 , 495, 418-426	3
1141	A hybrid strategy for network immunization. 2018 , 106, 214-219	16
1140	BridgeRank: A novel fast centrality measure based on local structure of the network. 2018 , 496, 635-653	22
1139	Community detection in complex networks using link prediction. 2018 , 32, 1850004	20
1138	A Comparison of Approaches to Computing Betweenness Centrality for Large Graphs. 2018 , 3-13	3
1137	The Impact of Partially Missing Communities on the Reliability of Centrality Measures. 2018 , 41-52	
1136	Nonnegative matrix factorization with mixed hypergraph regularization for community detection. 2018 , 435, 263-281	64
1135	Local Spectral Clustering for Overlapping Community Detection. 2018 , 12, 1-27	37
1134	A Survey on Image Enhancement Techniques Using Aesthetic Community. 2018 , 585-596	1
1133	A local information based multi-objective evolutionary algorithm for community detection in complex networks. 2018 , 69, 357-367	26
1132	Geometric multiscale community detection: Markov stability and vector partitioning. 2018 , 6, 157-172	5
1131	A hybrid algorithm based on community detection and multi attribute decision making for influence maximization. 2018 , 120, 234-250	18
1130	Generative models for local network community detection. <i>Physical Review E</i> , 2018 , 97, 042316	2.4 3

1129	Influence maximization in social networks based on TOPSIS. 2018 , 108, 96-107	51
1128	Low-rank subspace learning based network community detection. 2018 , 155, 71-82	9
1127	Overlapping functional modules detection in PPI network with pair-wise constrained non-negative matrix tri-factorisation. 2018 , 12, 45-54	6
1126	Weighted community detection and data clustering using message passing. 2018 , 2018, 033405	9
1125	. 2018 , 26, 3136-3150	31
1124	An Efficient Two-Phase Model for Computing Influential Nodes in Social Networks Using Social Actions. 2018 , 33, 286-304	12
1123	A new centrality measure based on the negative and positive effects of clustering coefficient for identifying influential spreaders in complex networks. 2018 , 110, 41-54	31
1122	An efficient method for mining the maximal μ -quasi-clique-community of a given node in complex networks. 2018 , 8, 1	4
1121	Convergence improvement of differential evolution for community detection in complex networks. 2018 , 503, 762-779	9
1120	Multi-objective evolutionary algorithm using problem-specific genetic operators for community detection in networks. 2018 , 30, 2907-2920	12
1119	Fuzzy clustering in community detection based on nonnegative matrix factorization with two novel evaluation criteria. 2018 , 69, 689-703	21
1118	True-link clustering through signaling process and subcommunity merge in overlapping community detection. 2018 , 30, 3613-3621	5
1117	Change-aware community detection approach for dynamic social networks. 2018 , 48, 78-96	4
1116	Multipolarization versus unification in community networks. 2018 , 83, 454-460	1
1115	Incompatibility Boundaries for Properties of Community Partitions. 2018 , 5, 32-41	
1114	Discriminative metric learning for multi-view graph partitioning. 2018 , 75, 199-213	39
1113	Decomposing complex plants for distributed control: Perspectives from network theory. 2018 , 114, 43-51	26
1112	SELP: Semi-supervised evidential label propagation algorithm for graph data clustering. 2018 , 92, 139-154	27

1111	A new cellular learning automata-based algorithm for community detection in complex social networks. 2018 , 24, 413-426	24
1110	Phase transition of Surprise optimization in community detection. 2018 , 491, 693-707	6
1109	A hierarchical approach for influential node ranking in complex social networks. 2018 , 93, 200-211	62
1108	Adaptive multi-resolution Modularity for detecting communities in networks. 2018 , 491, 591-603	11
1107	Adaptive modularity maximization via edge weighting scheme. 2018 , 424, 55-68	20
1106	Reconstruction of network topology using status-time-series data. 2018 , 490, 573-583	3
1105	Community extraction and visualization in social networks applied to Twitter. 2018 , 424, 204-223	23
1104	Using functional dependency and node closure to detect communities from the sparse network. 2018 , 32, 1850018	
1103	Semi-supervised spectral algorithms for community detection in complex networks based on equivalence of clustering methods. 2018 , 490, 786-802	25
1102	Weighted compactness function based label propagation algorithm for community detection. 2018 , 492, 767-780	9
1101	LP-LPA: A link influence-based label propagation algorithm for discovering community structures in networks. 2018 , 32, 1850062	34
1100	A novel community detection algorithm based on simplification of complex networks. 2018 , 143, 58-64	15
1099	Parallel Community Detection Methods for Sparse Complex Networks. 2018 , 290-301	1
1098	Efficient detection of communities with significant overlaps in networks: Partial community merger algorithm. 2018 , 6, 71-96	1
1097	Second-order random walk-based proximity measures in graph analysis: formulations and algorithms. 2018 , 27, 127-152	7
1096	A clustering algorithm for determining community structure in complex networks. 2018 , 492, 980-993	7
1095	Fast detection of the fuzzy communities based on leader-driven algorithm. 2018 , 32, 1850058	2
1094	A Probabilistic Framework for Structural Analysis and Community Detection in Directed Networks. 2018 , 26, 31-46	10

1093	CC-GA: A clustering coefficient based genetic algorithm for detecting communities in social networks. 2018 , 63, 59-70	73
1092	Node similarity and modularity for finding communities in networks. 2018 , 492, 1958-1966	21
1091	Community detection method based on mixed-norm sparse subspace clustering. 2018 , 275, 2150-2161	13
1090	Site-Effect-Based Semi-Synchronous Label Propagation Algorithm for Community Detection. 2018 ,	1
1089	NBCD:Neighborhood Based Community Detection in Dynamic Social Networks. 2018 ,	1
1088	Metaheuristic Algorithms for Detect Communities in Social Networks: A Comparative Analysis Study. 2018 , 5, 25-45	1
1087	Community detection via closure extension. 2018 , 29, 1850119	
1086	Variational Approach for Learning Community Structures. 2018 , 2018, 1-13	3
1085	EmbeddingVis: A Visual Analytics Approach to Comparative Network Embedding Inspection. 2018 ,	7
1084	Top-k Structure Holes Detection Algorithm in Social Network. 2018 ,	4
1083	The Political Complexity of Regional Electricity Policy Formation. 2018 , 2018, 1-18	0
1082	An Unsupervised Model for Detecting Passively Encountering Groups from WiFi Signals. 2018 ,	2
1081	Online Social Networks (OSN) Evolution Model Based on Homophily and Preferential Attachment. 2018 , 10, 654	3
1080	A Novel Community Detection Algorithm Based on the Node Correlation Strength in Complex Networks. 2018 ,	
1079	Community detection using coordination games. 2018 , 8, 1	0
1078	Model to Generate Benchmark Graphs Based on Evolution Dynamics. 2018 ,	1
1077	NGA-LP: A Robust and Improved Genetic Algorithm to Detect Communities in Directed Networks. 2018 ,	
1076	A Parallel Community Detection Algorithm Based on Incremental Clustering in Dynamic Network. 2018 ,	2

1075	A Nonnegative Matrix Factorization Approach for Multiple Local Community Detection. 2018,	10
1074	Betweenness Centrality for Networks with Non-Overlapping Community Structure. 2018,	10
1073	Random Walks with Restarts for Graph-Based Classification: Teleportation Tuning and Sampling Design. 2018,	1
1072	Spectral Graph Forge: Graph Generation Targeting Modularity. 2018,	4
1071	Team Formation in Community-Based Palliative Care. 2018,	4
1070	Community Detection in Networks Based on Modified PageRank and Stochastic Block Model. 2018, 6, 77133-77144	7
1069	Detecting Multiple Information Sources Based on the Quantum Walk. 2018,	
1068	Overlapping Community Detection Based on Information Dynamics. 2018, 6, 70919-70934	11
1067	A modularity-maximization-based approach for detecting multi-communities in social networks. 2018, 303, 381	0
1066	Learning Community Structure with Variational Autoencoder. 2018,	10
1065	A Social Network Model Based on the Community Evolutions. 2018,	
1064	Shortest path counting in probabilistic biological networks. 2018, 19, 465	3
1063	. 2018, 5, 1021-1033	48
1062	Encyclopedia of Big Data Technologies. 2018, 1-8	
1061	Detecting overlapping communities based on vital nodes in complex networks. 2018, 27, 100504	4
1060	Structure Detection in Mixed-Integer Programs. 2018, 30, 570-587	4
1059	USI-AUC: An evaluation criterion of community detection based on a novel link-prediction method. 2018, 22, 439-462	1
1058	An improved label propagation algorithm based on node intimacy for community detection in networks. 2018, 32, 1850279	10

1057	Academic Social Network Scholars Recommendation Model Based on Community Division. 2018,	0
1056	Data-Adaptive Active Sampling for Efficient Graph-Cognizant Classification. 2018, 66, 5167-5179	3
1055	Critical analysis of (Quasi-)Surprise for community detection in complex networks. 2018, 8, 14459	6
1054	A data reduction approach using hypergraphs to visualize communities and brokers in social networks. 2018, 8, 1	
1053	Random multi-hopper model: super-fast random walks on graphs. 2018, 6, 382-403	20
1052	Node-Based Resilience Measure Clustering with Applications to Noisy and Overlapping Communities in Complex Networks. 2018, 8, 1307	7
1051	Global vs local modularity for network community detection. 2018, 13, e0205284	10
1050	Complex self-sustained oscillation patterns in modular excitable networks. <i>Physical Review E</i> , 2018, 98,	2.4 3
1049	Enhancing Community Detection for Big Sensor Data Clustering via Hyperbolic Network Embedding. 2018,	
1048	A bounded-size clustering algorithm on fully-dynamic streaming graphs. 2018, 22, 1039-1058	2
1047	Evaluation and Customization of Community Detection Algorithms in Large Social Networks. 2018,	
1046	Detecting Erroneous Identity Links on the Web Using Network Metrics. 2018, 391-407	11
1045	Gauss's law for networks directly reveals community boundaries. 2018, 8, 11909	3
1044	A nonuniform popularity-similarity optimization (nPSO) model to efficiently generate realistic complex networks with communities. 2018, 20, 052002	41
1043	Weight thresholding on complex networks. <i>Physical Review E</i> , 2018, 98,	2.4 17
1042	Community Detection Based on Differential Evolution Using Modularity Density. 2018, 9, 218	8
1041	Semi-Supervised Soft Label Propagation Based on Mass Function for Community Detection. 2018,	2
1040	Simplified Energy Landscape for Modularity Using Total Variation. 2018, 78, 2439-2464	5

1039	Generalized Erdős numbers for network analysis. 2018 , 5, 172281		
1038	Characterizing the Analogy Between Hyperbolic Embedding and Community Structure of Complex Networks. 2018 , 121, 098301		25
1037	An evidential method for correcting noisy information in social network. 2018 , 7, 30-44		0
1036	Experimental Design of Work Chunking for Graph Algorithms on High Bandwidth Memory Architectures. 2018 ,		3
1035	Semi-Supervised Community Detection Based on Distance Dynamics. 2018 , 6, 37261-37271		15
1034	Power iteration ranking via hybrid diffusion for vital nodes identification. 2018 , 506, 802-815		5
1033	Overlapping Community Detection by Node-Weighting. 2018 ,		
1032	. 2018 , 2, 214-223		81
1031	Community detection in complex networks using deep auto-encoded extreme learning machine. 2018 , 32, 1850180		6
1030	FSIM: A Fast and Scalable Influence Maximization Algorithm Based on Community Detection. 2018 , 26, 379-396		7
1029	Conjoining uncooperative societies facilitates evolution of cooperation. 2018 , 2, 492-499		26
1028	An Autonomous Divisive Algorithm for Community Detection Based on Weak Link and Link-Break Strategy. 2018 , 2018, 1-12		3
1027	Overlapping community detection with preference and locality information: a non-negative matrix factorization approach. 2018 , 8, 1		3
1026	Random walks on the world input/output network. 2018 , 6, 187-205		11
1025	Constrained information flows in temporal networks reveal intermittent communities. <i>Physical Review E</i> , 2018 , 97, 062312	2.4	26
1024	A novel two-step community detection approach based on community tree and the N-players cooperative game in large-scale social networks. 2018 , 18, 1007-1020		
1023	A Hybrid Spectral Method for Network Community Detection. 2018 , 90-104		3
1022	Coupled Node Similarity Learning for Community Detection in Attributed Networks. 2018 , 20,		12

1021	Enhanced semi-supervised community detection with active node and link selection. 2018 , 510, 219-232	2
1020	Community detection by laser network dynamics. 2018 , 2, 015005	1
1019	Big Data Clustering via Community Detection and Hyperbolic Network Embedding in IoT Applications. 2018 , 18,	6
1018	A parallel self-organizing overlapping community detection algorithm based on swarm intelligence for large scale complex networks. 2018 , 89, 265-285	11
1017	Sampling on bipartite networks: a comparative analysis of eight crawling methods. 2018 , 2018, 073403	0
1016	Leveraging the nonuniform PSO network model as a benchmark for performance evaluation in community detection and link prediction. 2018 , 20, 063022	15
1015	Network community detection using modularity density measures. 2018 , 2018, 053406	10
1014	The difference between optimal and germane communities. 2018 , 8, 1	
1013	Griffiths phases in infinite-dimensional, non-hierarchical modular networks. 2018 , 8, 9144	13
1012	Using social network analysis to model palliative care. 2018 , 120, 30-41	8
1011	When Is Network Lasso Accurate?. 2018 , 3,	9
1010	Classification and Feature Extraction for Text-based Drug Incident Report. 2018 ,	0
1009	SPIR: The potential spreaders involved SIR model for information diffusion in social networks. 2018 , 506, 254-269	23
1008	Multiresolution Consensus Clustering in Networks. 2018 , 8, 3259	66
1007	A generalised significance test for individual communities in networks. 2018 , 8, 7351	12
1006	Stad: Stateful Diffusion for Linear Time Community Detection. 2018 ,	
1005	I/O-Efficient Generation of Massive Graphs Following the LFR Benchmark. 2018 , 23, 1-33	8
1004	Performance Evaluation of Community Detection Algorithms Based on Relationship Strength Measurement. 2018 ,	

1003	Distributed Graph Clustering Using Modularity and Map Equation. 2018 , 688-702	1
1002	Leveraging local h-index to identify and rank influential spreaders in networks. 2018 , 512, 379-391	24
1001	Preprocessing Technique for Cluster Editing via Integer Linear Programming. 2018 , 287-297	
1000	. 2018 ,	31
999	A Statistical Performance Analysis of Graph Clustering Algorithms. 2018 , 170-184	7
998	On the Problem of Multi-Staged Impression Allocation in Online Social Networks. 2018 , 65-84	2
997	. 2018 ,	12
996	Extending CDFR for Overlapping Community Detection. 2018 ,	3
995	The independence of the centrality for community detection. 2018 , 29, 1850060	1
994	Multiobjective discrete particle swarm optimization for community detection in dynamic networks. 2018 , 122, 28001	17
993	Encyclopedia of Social Network Analysis and Mining. 2018 , 2202-2216	
992	Guidelines for Online Network Crawling. 2018 ,	3
991	Optimized Label Propagation Community Detection on Big Data Networks. 2018 ,	3
990	Voting Simulation based Agglomerative Hierarchical Method for Network Community Detection. 2018 , 8, 8064	3
989	Scalable Interactive Dynamic Graph Clustering on Multicore CPUs. 2019 , 31, 1239-1252	7
988	Fast detection of community structures using graph traversal in social networks. 2019 , 59, 1-31	9
987	. 2019 , 13, 582-592	10
986	LPANNI: Overlapping Community Detection Using Label Propagation in Large-Scale Complex Networks. 2019 , 31, 1736-1749	42

985	On the detection of transitive clusters in undirected networks. 2019 , 46, 364-384	2
984	Network partitioning on time-dependent origin-destination electronic trace data. 2019 , 23, 687-706	1
983	Statistical Inference of Diffusion Networks. 2019 , 1-1	7
982	Time-Sync Video Tag Extraction Using Semantic Association Graph. 2019 , 13, 1-24	2
981	Immunization of networks with non-overlapping community structure. 2019 , 9, 1	27
980	ANDERATION: A New Anti-Community Detection Algorithm and its Application to Explore Incompatibility of Traditional Chinese Medicine. 2019 , 7, 113975-113987	
979	A New Brainstorming Based Algorithm for the Community Detection Problem. 2019 ,	3
978	Error-correcting decoders for communities in networks. 2019 , 4,	1
977	Uncovering complex overlapping pattern of communities in large-scale social networks. 2019 , 4,	3
976	A multi-armed bandit approach for exploring partially observed networks. 2019 , 4,	1
975	A new genetic algorithm for community detection using matrix representation method. 2019 , 535, 122259	5
974	Neighbor Similarity Based Agglomerative Method for Community Detection in Networks. 2019 , 2019, 1-16	7
973	A generative model for exploring structure regularities in attributed networks. 2019 , 505, 252-264	5
972	Discovering Maximal Motif Cliques in Large Heterogeneous Information Networks. 2019 ,	14
971	Variational community partition with novel network structure centrality prior. 2019 , 75, 333-348	7
970	Xu: An Automated Query Expansion and Optimization Tool. 2019 ,	3
969	Community Detection on Networks with Ricci Flow. 2019 , 9, 9984	13
968	Label propagation method based on bi-objective optimization for ambiguous community detection in large networks. 2019 , 9, 9999	

967	Comparing complex networks: in defence of the simple. 2019 , 21, 013033	3
966	Group formation on a small-world: experiment and modelling. 2019 , 16, 20180814	4
965	Social Network Group Identification based on Local Attribute Community Detection. 2019 ,	1
964	Community Detection Using Restrained Random-Walk Similarity. 2021 , 43, 89-103	6
963	Detecting communities from networks using an improved self-organizing map. 2019 , 30, 1950054	1
962	Modularized tri-factor nonnegative matrix factorization for community detection enhancement. 2019 , 533, 122050	3
961	Centrality in Complex Networks with Overlapping Community Structure. 2019 , 9, 10133	41
960	Weight assignment on edges towards improved community detection. 2019 ,	0
959	Community detection in civil society online networks: Theoretical guide and empirical assessment. 2019 , 59, 120-133	5
958	CDLIB: a python library to extract, compare and evaluate communities from complex networks. 2019 , 4,	27
957	Stochastic block models: A comparison of variants and inference methods. 2019 , 14, e0215296	23
956	Guidelines for Experimental Algorithmics: A Case Study in Network Analysis. 2019 , 12, 127	6
955	A subset of topologically associating domains fold into mesoscale core-periphery networks. 2019 , 9, 9526	5
954	Community Detection in Social Networks: Literature Review. 2019 , 18, 1950019	3
953	Optimal timescale for community detection in growing networks. 2019 , 21, 093066	2
952	A memory-based method to select the number of relevant components in principal component analysis. 2019 , 2019, 093408	1
951	A new evolutionary multi-objective community mining algorithm for signed networks. 2019 , 85, 105817	2
950	Coupled Graphs and Tensor Factorization for Recommender Systems and Community Detection. 2019 , 1-1	14

949	Local memory boosts label propagation for community detection. 2019 , 4,	2
948	Community detection and unveiling of hierarchy in networks: a density-based clustering approach. 2019 , 4,	2
947	Delineating the Regional Economic Geography of China by the Approach of Community Detection. 2019 , 11, 6053	4
946	Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. 2019 , 6, 1257-1272	6
945	Local Higher-Order Community Detection Based on Fuzzy Membership Functions. 2019 , 7, 128510-128525	6
944	An Effective Algorithm for Optimizing Surprise in Network Community Detection. 2019 , 7, 148814-148827	5
943	Spectral Graph Forge: A Framework for Generating Synthetic Graphs With a Target Modularity. 2019 , 27, 2125-2136	2
942	Reveal Community Structure by Local Similarity and Hierarchical Clustering. 2019 , 7, 138694-138706	
941	Identification of Bridging Centrality in Complex Networks. 2019 , 7, 93123-93130	5
940	Community Detection and Visualization in Complex Network by the Density-Canopy-Kmeans Algorithm and MDS Embedding. 2019 , 7, 120616-120625	2
939	. 2019 , 1-1	6
938	Active semi-supervised overlapping community finding with pairwise constraints. 2019 , 4,	2
937	Geometric Heuristics for Rectilinear Crossing Minimization. 2019 , 24, 1-21	0
936	A systematic review on the status and progress of homomorphic encryption technologies. 2019 , 48, 102362	15
935	Evaluating link significance in maintaining network connectivity based on link prediction. 2019 , 29, 083120	0
934	Community detection based on Game Theory. 2019 , 85, 773-782	29
933	Research on Label Propagation Algorithms Based on Clustering Coefficient. 2019 ,	1
932	Label propagation method based on constraint about triangles for community detection in complex networks. 2019 ,	1

931	Functional and transcriptional connectivity of communities in breast cancer co-expression networks. 2019 , 4,	14
930	Dynamic Modular Networks Model Mediated by Confinement. 2019 , 4,	2
929	Ensemble clustering for graphs: comparisons and applications. 2019 , 4,	6
928	HyGen: generating random graphs with hyperbolic communities. 2019 , 4,	
927	DeepDrawing: A Deep Learning Approach to Graph Drawing. 2020 , 26, 676-686	8
926	Neighbors-based divisive algorithm for hierarchical analysis in networks. 2019 , 30, 1940003	
925	FluidC+: A novel community detection algorithm based on fluid propagation. 2019 , 30, 1950021	1
924	Hierarchical Community Detection in Social Networks Based on Micro-Community and Minimum Spanning Tree. 2019 , E102.D, 1773-1783	3
923	Evolutionary Network Embedding Preserving both Local Proximity and Community Structure. 2019 , 1-1	3
922	A Fast Parallel Genetic Algorithm Based Approach for Community Detection in Large Networks. 2019 ,	6
921	DiCeS: Detecting Communities in Network Streams over the Cloud. 2019 ,	1
920	Weighted label propagation based on Local Edge Betweenness. 2019 , 75, 8094-8114	2
919	Community Detection Based on Genetic Algorithm Using Local Structural Similarity. 2019 , 7, 134583-134600	13
918	A new method for detecting communities and their centers using the Adamic/Adar Index and game theory. 2019 , 535, 122354	2
917	A Novel Community Detection Algorithm Based on Local Similarity of Clustering Coefficient in Social Networks. 2019 , 7, 121586-121598	12
916	Scale-variant topological information for characterizing the structure of complex networks. <i>Physical Review E</i> , 2019 , 100, 032308	2-4 4
915	A comprehensive literature review on community detection: Approaches and applications. 2019 , 151, 295-302	16
914	Community Detection Using Fireworks Optimization Algorithm. 2019 , 28, 1950010	5

913	Latent cellular analysis robustly reveals subtle diversity in large-scale single-cell RNA-seq data. 2019 , 47, e143	10
912	Detecting an Overlapping Community Structure by Using Clique-to-Clique Similarity based Label Propagation. 2019 , 75, 436-442	1
911	Community structure enhanced cascade prediction. 2019 , 359, 276-284	3
910	Krylov Subspace Approximation for Local Community Detection in Large Networks. 2019 , 13, 1-30	12
909	Detecting communities from networks based on their intrinsic properties. 2019 , 30, 1950104	2
908	Three-state opinion dynamics in modular networks. <i>Physical Review E</i> , 2019 , 100, 032312	2.4 11
907	. 2019 , 6, 9226-9236	20
906	Social Community Detection. 2019 , 151-168	3
905	Multiobjective Overlapping Community Detection Algorithms Using Granular Computing. 2019 , 233-256	1
904	Community robustness and its enhancement in interdependent networks. 2019 , 77, 665-677	15
903	A divide and agglomerate algorithm for community detection in social networks. 2019 , 482, 321-333	25
902	Communities detection in social network based on local edge centrality. 2019 , 531, 121552	19
901	Community detection based on information dynamics. 2019 , 359, 341-352	12
900	Community detection based on human social behavior. 2019 , 531, 121765	9
899	Generative Graph Models based on Laplacian Spectra?. 2019 ,	1
898	Local Expansion and Optimization for Higher-Order Graph Clustering. 2019 , 6, 8702-8713	6
897	Evaluating the Readability of Force Directed Graph Layouts: A Deep Learning Approach. 2019 , 39, 40-53	7
896	An Effective Method for Complex Network Community Detection Based on Hierarchical Splitting. 2019 ,	1

895	Nestedness in complex networks: Observation, emergence, and implications. 2019 , 813, 1-90	53
894	EM-FGS: Graph sparsification via faster semi-metric edges pruning. 2019 , 49, 3731-3748	2
893	A novel edge rewiring strategy for tuning structural properties in networks. 2019 , 177, 55-67	2
892	A SOM-Based Membrane Optimization Algorithm for Community Detection. 2019 , 21,	4
891	Overlapping Communities in Co-purchasing and Social Interaction Graphs: A Memetic Approach. 2019 , 435-466	1
890	Element-centric clustering comparison unifies overlaps and hierarchy. 2019 , 9, 8574	26
889	Complex Network Community Extraction Based on Gaussian Mixture Model Algorithm. 2019 , 267, 042163	
888	Detecting communities by suspecting the maximum degree nodes. 2019 , 33, 1950133	2
887	DPSCAN: Structural Graph Clustering Based on Density Peaks. 2019 , 626-641	0
886	A multi-objective ant colony optimization with decomposition for community detection in complex networks. 2019 , 41, 2521-2534	1
885	RETRACTED: Image quality tendency modeling by fusing multiple visual cues. 2019 , 62, 117-128	
884	A novel node gravitation-based label propagation algorithm for community detection. 2019 , 30, 1950049	7
883	FCMiner: mining functional communities in social networks. 2019 , 9, 1	4
882	A framework for group activity detection and recognition using smartphone sensors and beacons. 2019 , 158, 205-216	16
881	A similarity based generalized modularity measure towards effective community discovery in complex networks. 2019 , 527, 121338	4
880	High-performance community detection in social networks using a deep transitive autoencoder. 2019 , 493, 75-90	19
879	Community detection analysis in wind speed-monitoring systems using mutual information-based complex network. 2019 , 29, 043107	3
878	A Scheme to Design Community Detection Algorithms in Various Networks. 2019 , 11, 41	1

877	The Local Triangle Structure Centrality Method to Rank Nodes in Networks. 2019 , 2019, 1-16	2
876	Overlapping Community Detection Algorithm Based on Coarsening and Local Overlapping Modularity. 2019 , 7, 57943-57955	13
875	Topological and functional comparison of community detection algorithms in biological networks. 2019 , 20, 212	20
874	From Louvain to Leiden: guaranteeing well-connected communities. 2019 , 9, 5233	707
873	Evaluation of Community Detection Methods. 2019 , 1-1	19
872	Detecting intrinsic communities in evolving networks. 2019 , 9, 1	8
871	Improving the robustness of scale-free networks by maintaining community structure. 2019 , 7, 838-864	4
870	Evolution of cooperation on large networks with community structure. 2019 , 16, 20180677	50
869	SCE: Subspace-based core expansion method for community detection in complex networks. 2019 , 527, 121084	10
868	Identifying multi-scale communities in networks by asymptotic surprise. 2019 , 2019, 033403	10
867	Learning distributed representations for community search using node embedding. 2019 , 13, 437-439	4
866	Fast consensus clustering in complex networks. <i>Physical Review E</i> , 2019 , 99, 042301	2.4 11
865	Identification of Dynamical Behavior of Pseudoperiodic Time Series by Network Community Structure. 2019 , 66, 1905-1909	7
864	Optimal modularity and memory capacity of neural reservoirs. 2019 , 3, 551-566	17
863	Computing communities in complex networks using the Dirichlet processing Gaussian mixture model with spectral clustering. 2019 , 383, 813-824	7
862	Aesthetics-Guided Graph Clustering With Absent Modalities Imputation. 2019 , 28, 3462-3476	
861	EADP: An extended adaptive density peaks clustering for overlapping community detection in social networks. 2019 , 337, 287-302	27
860	Community structure detection from networks with weighted modularity. 2019 , 122, 14-22	10

859	Overlapping communities detection of social network based on hybrid C-means clustering algorithm. 2019 , 47, 101436	9
858	Comparing the speed and accuracy of approaches to betweenness centrality approximation. 2019 , 6,	9
857	Decentralized iterative approaches for community clustering in the networks. 2019 , 75, 4894-4917	1
856	On the Analysis of the Influence of the Evaluation Metric in Community Detection over Social Networks. 2019 , 8, 23	3
855	Multi-objective ant colony optimization algorithm based on decomposition for community detection in complex networks. 2019 , 23, 12683-12709	14
854	Parameter-free Community Detection through Distance Dynamic Synchronization. 2019 , 62, 1625-1638	
853	Listing all maximal cliques in large graphs on vertex-centric model. 2019 , 75, 4918-4946	2
852	Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. 2019 , 6, 103-116	3
851	Exploratory Community Detection: Finding Communities in Unknown Networks. 2019 ,	
850	Network Community Detection using A Backtracking-based Discrete State Transition Algorithm. 2019 ,	
849	Discovering communities of community discovery. 2019 ,	0
848	The meaning of dissimilar. 2019 ,	3
847	Structured Egonet Tensors for Robust Node Embedding. 2019 ,	
846	IsoClustering: A Generalized Framework for Local Data Clustering. 2019 ,	
845	Distributed Multi-Objective Community Detection in Large-Scale and Complex Networks. 2019 ,	1
844	Measuring intrinsic significance of community structure. 2019 , 30, 1950068	
843	Optimizing Variational Graph Autoencoder for Community Detection. 2019 ,	4
842	Overlapping Community Discovery Based on the Combination of Node Influence and EConnected Neighbors. 2019 , 28, 1950011	

841	Detecting Overlapping Community Structure With Node Influence. 2019 , 7, 171223-171234		1
840	Detecting community structure by belonging intensity analysis of intermediate nodes. 2019 , 30, 1950079		
839	Node Embedding With a \$CN\$ -Based Random Walk for Community Search. 2019 , 7, 169953-169960		
838	Community Detection Method Based on Node Density, Degree Centrality, and K-Means Clustering in Complex Network. 2019 , 21, 1145		6
837	Refining modules to determine functionally significant clusters in molecular networks. 2019 , 20, 901		2
836	A Novel Snowball-Chain Approach for Detecting Community Structures in Social Graphs. 2019 ,		
835	Computing the statistical significance of optimized communities in networks. 2019 , 9, 18444		5
834	Spectral Algorithm for Community Detection Under Heterogeneous Networks. 2019 ,		
833	Dynamic Social Networks Generator Based on Modularity: DSNG-M. 2019 ,		1
832	Community Detection with Self-Adapting Switching Based on Affinity. 2019 , 2019, 1-16		
831	Notice of Removal: Discovering community structure in networks - A comparative study. 2019 ,		
830	An ant colony approach in the detection of communities in complex networks. 2019 ,		
829	Improving computational performance in likelihood-based network clustering. 2019 , 8, e256		1
828	Comparing methods for comparing networks. 2019 , 9, 17557		48
827	Exploring the solution landscape enables more reliable network community detection. <i>Physical Review E</i> , 2019 , 100, 052308	2.4	16
826	A Two-Level Edge-Knowledge Learning Genetic Algorithm for Community Detection. 2019 ,		
825	Parallel Heuristic Community Detection Method Based on Node Similarity. 2019 , 7, 184145-184159		2
824	Uncovering community structure in networks via hybrid clustering using cascading failure dynamics and topological metric functions. 2019 , 33, 1950352		1

823	Scalable generation of graphs for benchmarking HPC community-detection algorithms. 2019,	10
822	Multi-Type Node Detection in Network Communities. 2019, 21, 1237	3
821	Game Theoretical Approach for Non-Overlapping Community Detection. 2019,	
820	Detecting Community Structures Based on an Improved Discrete Bat Algorithm. 2019,	
819	Strength Adjusted Multilayer Spectral Clustering. 2019,	0
818	Semi-Supervised Learning in Network-Structured Data via Total Variation Minimization. 2019, 67, 6256-6269	7
817	On community structure in complex networks: challenges and opportunities. 2019, 4,	56
816	Learning embeddings for multiplex networks using triplet loss. 2019, 4,	2
815	Networks clustering with bee colony. 2019, 52, 1297-1309	2
814	Community detection using multilayer edge mixture model. 2019, 60, 757-779	14
813	Community detection using boundary nodes in complex networks. 2019, 513, 315-324	15
812	Revealing the role of node similarity and community merging in community detection. 2019, 165, 407-419	20
811	A multi-objective bat algorithm for community detection on dynamic social networks. 2019, 49, 2119-2136	28
810	Community detection in complex networks using edge-deleting with restrictions. 2019, 519, 181-194	12
809	Ranking nodes in complex networks based on local structure and improving closeness centrality. 2019, 336, 36-45	37
808	. 2019, 7, 142773-142786	7
807	A new local and multidimensional ranking measure to detect spreaders in social networks. 2019, 101, 1711-1733	23
806	Locally-biased spectral approximation for community detection. 2019, 164, 459-472	10

805	Improved network community detection using meta-heuristic based label propagation. 2019 , 49, 1451-1466	10
804	A Link-Based Similarity for Improving Community Detection Based on Label Propagation Algorithm. 2019 , 32, 737-758	21
803	GroupSense: A Lightweight Framework for Group Identification. 2019 , 18, 2856-2870	2
802	The statistical physics of real-world networks. 2019 , 1, 58-71	114
801	A novel modularity-based discrete state transition algorithm for community detection in networks. 2019 , 334, 89-99	32
800	Community Detection in Social Networks. 2019 , 273-293	2
799	Fog Computing-Assisted Trustworthy Forwarding Scheme in Mobile Internet of Things. 2019 , 6, 2778-2796	13
798	A Community-Aware Approach for Identifying Node Anomalies in Complex Networks. 2019 , 244-255	1
797	Semi-supervised Overlapping Community Finding Based on Label Propagation with Pairwise Constraints. 2019 , 316-327	1
796	A Memory-Based Label Propagation Algorithm for Community Detection. 2019 , 171-182	3
795	TimeRank: A Random Walk Approach for Community Discovery in Dynamic Networks. 2019 , 338-350	4
794	Random Graph Generators for Hyperbolic Community Structures. 2019 , 680-693	
793	Bringing a Feature Selection Metric from Machine Learning to Complex Networks. 2019 , 107-118	1
792	On the Evaluation of Community Detection Algorithms on Heterogeneous Social Media Data. 2019 , 295-333	
791	Ensemble Clustering for Graphs. 2019 , 231-243	8
790	Comparison of Methods to Identify Modules in Noisy or Incomplete Brain Networks. 2019 , 9, 128-143	7
789	EHC: Extended H-index Centrality measure for identification of users spreading influence in complex networks. 2019 , 514, 141-155	27
788	The multi-walker chain and its application in local community detection. 2019 , 60, 1663-1691	3

787	Evolutionary Community Detection Algorithms. 2019 , 77-115	1
786	An efficient and fast algorithm for community detection based on node role analysis. 2019 , 10, 641-654	3
785	A community-based algorithm for influence blocking maximization in social networks. 2019 , 22, 5587-5602	11
784	Sparse network embedding for community detection and sign prediction in signed social networks. 2019 , 10, 175-186	34
783	Game-Based Memetic Algorithm to the Vertex Cover of Networks. 2019 , 49, 974-988	11
782	Spread-It: A Strategic Game of Competitive Diffusion Through Social Networks. 2019 , 11, 129-141	2
781	Data Clustering and Graph Partitioning via Simulated Mixing. 2019 , 6, 253-266	1
780	Tracking community evolution in social networks: A survey. 2019 , 56, 1084-1102	60
779	Human Cortical Thickness Organized into Genetically-determined Communities across Spatial Resolutions. 2019 , 29, 106-118	12
778	RETRACTED ARTICLE: Flickr image quality evaluation by deeply fusing heterogeneous visual cues. 2020 , 79, 9679-9679	
777	Multilayer Flows in Molecular Networks Identify Biological Modules in the Human Proteome. 2020 , 7, 411-420	8
776	Community Preserving Network Embedding Based on Memetic Algorithm. 2020 , 4, 108-118	10
775	A Network Reduction-Based Multiobjective Evolutionary Algorithm for Community Detection in Large-Scale Complex Networks. 2020 , 50, 703-716	34
774	Leader-aware community detection in complex networks. 2020 , 62, 639-668	5
773	Multiobjective Optimization and Local Merge for Clustering Attributed Graphs. 2020 , 50, 4997-5009	21
772	A fuzzy logic approach to influence maximization in social networks. 2020 , 11, 2435-2451	5
771	Stochastic Block Models are a Discrete Surface Tension. 2020 , 30, 2429-2462	2
770	Evaluation of the Sample Clustering Process on Graphs. 2020 , 32, 1333-1347	1

769	Homophily Preserving Community Detection. 2020 , 31, 2903-2915	6
768	An ensemble based on a bi-objective evolutionary spectral algorithm for graph clustering. 2020 , 141, 112911	6
767	Modularized convex nonnegative matrix factorization for community detection in signed and unsigned networks. 2020 , 539, 122904	5
766	Effects of social network structures and behavioral responses on the spread of infectious diseases. 2020 , 539, 122907	4
765	Supporting a Storm: The Impact of Community on #GamerGate's Lifespan. 2020 , 7, 1382-1393	
764	Research on complex network community identification based on partially optimized genetic algorithm. 2020 , 20, 81-89	1
763	A Hybrid Bat Algorithm for Community Detection in Social Networks. 2020 , 943-954	1
762	A three-stage algorithm on community detection in social networks. 2020 , 187, 104822	29
761	A local community detection algorithm based on internal force between nodes. 2020 , 50, 328-340	23
760	Method evaluation, parameterization, and result validation in unsupervised data mining: A critical survey. 2020 , 10, e1330	7
759	. 2020 , 22, 1273-1284	2
758	A new approximate cluster deletion algorithm for diamond-free graphs. 2020 , 39, 385-411	
757	Speed up random walk by leveraging community affiliation information. 2020 , 2, 51-65	
756	Community detection based on modularity and k-plexes. 2020 , 513, 127-142	23
755	The rise and fall of network stars: Analyzing 2.5 million graphs to reveal how high-degree vertices emerge over time. 2020 , 57, 102041	7
754	A benchmarking tool for the generation of bipartite network models with overlapping communities. 2020 , 62, 1641-1669	3
753	Syntgen: a system to generate temporal networks with user-specified topology. 2020 , 8,	
752	Community Detection in Complex Networks Using Nonnegative Matrix Factorization and Density-Based Clustering Algorithm. 2020 , 51, 1731-1748	6

751	Semi-Supervised Community Detection via Constraint Matrix Construction and Active Node Selection. 2020 , 8, 39078-39090	2
750	Local Optimization for Clique-Based Overlapping Community Detection in Complex Networks. 2020 , 8, 5091-5103	3
749	An improved multi-objective evolutionary algorithm for detecting communities in complex networks with graphlet measure. 2020 , 169, 107070	2
748	Analyses and applications of optimization methods for complex network reconstruction. 2020 , 193, 105406	3
747	Local Overlapping Community Detection. 2020 , 14, 1-25	11
746	Influential spreaders identification in complex networks with improved k-shell hybrid method. 2020 , 144, 113092	22
745	Autonomous Semantic Community Detection via Adaptively Weighted Low-rank Approximation. 2020 , 15, 1-22	5
744	Local community detection by the nearest nodes with greater centrality. 2020 , 517, 377-392	23
743	A ground truth contest between modularity maximization and modularity density maximization. 2020 , 53, 4575-4599	0
742	Random Graph Modeling. 2020 , 52, 1-36	7
741	Graph-based label propagation algorithm for community detection. 2020 , 11, 1319-1329	10
740	HWSMCB: A community-based hybrid approach for identifying influential nodes in the social network. 2020 , 545, 123590	3
739	Influence maximization based on the realistic independent cascade model. 2020 , 191, 105265	7
738	Community detection in complex networks using Node2vec with spectral clustering. 2020 , 545, 123633	18
737	Dynamical Clustering in Electronic Commerce Systems via Optimization and Leadership Expansion. 2020 , 16, 5327-5334	77
736	Cascade modeling with multihead self-attention. 2020 ,	3
735	Parallel Generation of Simple Null Graph Models. 2020 ,	3
734	A new attributed graph clustering by using label propagation in complex networks. 2020 ,	13

733	Detecting community structure in signed and unsigned social networks by using weighted label propagation. 2020 , 30, 103118	0
732	Community detection in complex network based on APT method. 2020 , 138, 193-200	5
731	Multi-Resolution Prediction Model Based on Community Relevance for Missing Links Prediction. 2020 , 8, 113981-113993	0
730	Fuzzy Measures: A solution to deal with community detection problems for networks with additional information. 2020 , 39, 6217-6230	3
729	Improved label propagation algorithm for overlapping community detection. 2020 , 102, 2185-2198	5
728	GLLPA: A Graph Layout based Label Propagation Algorithm for community detection. 2020 , 206, 106363	9
727	Community detection in node-attributed social networks: A survey. 2020 , 37, 100286	50
726	Statistical Estimation of Diffusion Network Topologies. 2020 ,	2
725	Learning multiple instance deep quality representation for robust object tracking. 2020 , 113, 298-303	1
724	Community detection based on the Matthew effect. 2020 , 205, 106256	12
723	Rapid Detection of Local Communities in Graph Streams. 2020 , 1-1	1
722	An improved algorithm for detecting community defined by node-to-node dynamic distance. 2020 , 31, 2050155	
721	Community-Aware Photo Quality Evaluation by Deeply Encoding Human Perception. 2020 , PP,	
720	Embedding-based Silhouette community detection. 2020 , 109, 2161-2193	7
719	LILPA: A label importance based label propagation algorithm for community detection with application to core drug discovery. 2020 , 413, 107-133	12
718	Detecting community structure and structural hole spanner simultaneously by using graph convolutional network based Auto-Encoder. 2020 , 410, 138-150	3
717	A new method for detecting communities in network based on the affinity between nodes. 2020 , 715, 012024	
716	Distortions of political bias in crowdsourced misinformation flagging. 2020 , 17, 20200020	3

715	Multilayer Modularity Belief Propagation to Assess Detectability of Community Structure. 2020 , 2, 872-900	
714	Attributed Graph Embedding Based on Multiobjective Evolutionary Algorithm for Overlapping Community Detection. 2020 ,	0
713	. 2020 , 8, 189786-189795	2
712	Cache Efficient Louvain with Local RCM. 2020 ,	
711	A Computational Model and Algorithm to Identify Social Isolation in Elderly Population. 2020 ,	0
710	Correspondence analysis-based network clustering and importance of degenerate solutions unification of spectral clustering and modularity maximization. 2020 , 10, 1	
709	A scalable graph generation algorithm to sample over a given shell distribution. 2020 ,	0
708	Dense and sparse vertex connectivity in networks. 2020 , 8,	
707	Divisive Algorithm Based on Node Clustering Coefficient for Community Detection. 2020 , 8, 142337-142347	4
706	A comparative study of overlapping community detection methods from the perspective of the structural properties. 2020 , 5,	8
705	Identifying and exploiting homogeneous communities in labeled networks. 2020 , 5,	10
704	Interplay between [Formula: see text]-core and community structure in complex networks. 2020 , 10, 14702	2
703	A Parallel LFR-like Benchmark for Evaluating Community Detection Algorithms. 2020 ,	3
702	. 2020 , 7, 1220-1233	4
701	Understanding the limitations of network online learning. 2020 , 5,	0
700	A density-based statistical analysis of graph clustering algorithm performance. 2020 , 8,	2
699	Detecting Statistically Significant Communities. 2020 , 1-1	3
698	Overlapping Community Detection in Social Networks Using Cellular Learning Automata. 2020 ,	

697	Emergence of nonlinear crossover under epidemic dynamics in heterogeneous networks. <i>Physical Review E</i> , 2020 , 102, 052311	2.4	5
696	Research on Community Detection in Complex Networks Based on Internode Attraction. 2020 , 22,		2
695	Overlapping community finding with noisy pairwise constraints. 2020 , 5, 98		
694	Population Cross Learning Algorithm Combining Greedy Search for Community Detection. 2020 , 1601, 032006		
693	Towards quantum computing based community detection. 2020 , 38, 100313		2
692	Bayesian Modeling of Random Walker for Community Detection in Networks. 2020 , 89, 114006		
691	Generalized Markov stability of network communities. <i>Physical Review E</i> , 2020 , 101, 052301	2.4	1
690	An Improved Multi-objective Genetic Algorithm for Revealing Community Structures of Complex Networks. 2020 ,		0
689	A novel iterated greedy algorithm for detecting communities in complex network. 2020 , 10, 1		3
688	Asymptotic resolution bounds of generalized modularity and multi-scale community detection. 2020 , 525, 54-66		1
687	Community detection in dynamic networks using constraint non-negative matrix factorization. 2020 , 24, 119-139		2
686	Spotting Key Members in Networks: Clustering-Embedded Eigenvector Centrality. 2020 , 14, 3916-3925		3
685	Community Detection in Social Networks Using Affinity Propagation with Adaptive Similarity Matrix. 2020 , 8, 189-202		11
684	Iterative consensus spectral clustering improves detection of subject and group level brain functional modules. 2020 , 10, 7590		11
683	BatchLayout: A Batch-Parallel Force-Directed Graph Layout Algorithm in Shared Memory. 2020 ,		2
682	Networks beyond pairwise interactions: Structure and dynamics. 2020 , 874, 1-92		228
681	. 2020 , 8, 94575-94593		2
680	. 2020 , 1-1		13

679	An adaptive population control framework for ACO-based community detection. 2020 , 138, 109886	3
678	Multi-morbidity Analysis using Community Detection Approach: a Comparative study. 2020 ,	1
677	Quantifying the Effect of Community Structures for Link Prediction by Constructing Null Models. 2020 , 8, 89269-89280	1
676	Cultural Algorithms for Cluster Hires in Social Networks. 2020 , 170, 514-521	6
675	Linear work generation of R-MAT graphs. 2020 , 8, 543-550	2
674	Modularity-Based Incremental Label Propagation Algorithm for Community Detection. 2020 , 10, 4060	1
673	Boundary-connection deletion strategy based method for community detection in complex networks. 2020 , 50, 3570-3589	2
672	A Comparative Evaluation of Community Detection Algorithms in Social Networks. 2020 , 171, 1157-1165	6
671	Adaptive Relation Discovery from Focusing Seeds on Large Networks. 2020 ,	2
670	Computing exact P-values for community detection. 2020 , 34, 833-869	5
669	MOEA-based community detection. 2020 , 197-232	
668	Modularity and projection of bipartite networks. 2020 , 549, 124341	3
667	CoVeC: Coarse-grained vertex clustering for efficient community detection in sparse complex networks. 2020 , 522, 180-192	6
666	Significance-based multi-scale method for network community detection and its application in disease-gene prediction. 2020 , 15, e0227244	2
665	NALPA: A Node Ability Based Label Propagation Algorithm for Community Detection. 2020 , 8, 46642-46664	6
664	. 2020 , 22, 2467-2478	
663	Complex network structure extraction based on community relevance. 2020 , 31, 2050062	
662	An effective community detection method based on one-dimensional attraction in network science. 2020 , 31, 2050071	1

661	Spark-Based Parallel Method for Prediction of Events. 2020 , 45, 3437-3453		4
660	Detecting leaders and key members of scientific teams in co-authorship networks. 2020 , 85, 106703		2
659	Optimization Algorithms for Detection of Social Interactions. 2020 , 13, 139		4
658	Network Structural Transformation-Based Community Detection with Autoencoder. 2020 , 12, 944		7
657	Classical information theory of networks. 2020 , 1, 025001		7
656	Utilizing Cellular Learning Automata for Finding Communities in Weighted Networks. 2020 ,		3
655	Revealing dynamic communities in networks using genetic algorithm with merge and split operators. 2020 , 558, 124897		0
654	Mapping flows on sparse networks with missing links. <i>Physical Review E</i> , 2020 , 102, 012302	2.4	1
653	LSMD: A fast and robust local community detection starting from low degree nodes in social networks. 2020 , 113, 41-57		16
652	ANGEL: efficient, and effective, node-centric community discovery in static and dynamic networks. 2020 , 5,		5
651	I will be there for you: clique, character centrality, and community detection in Friends. 2020 , 39, 1		
650	Optimization of identifiability for efficient community detection. 2020 , 22, 063035		55
649	Community detection via a triangle and edge combination conductance partitioning. 2020 , 2020, 073405		1
648	A vertex-similarity clustering algorithm for community detection. 2020 , 4, 36-50		1
647	Self-falsifiable hierarchical detection of overlapping communities on social networks. 2020 , 22, 033014		1
646	Efficient Algorithm for the Identification of Node Significance in Complex Network. 2020 , 8, 28947-28955		1
645	Multiobjective Complex Network Clustering Based on Dynamical Decomposition Particle Swarm Optimization. 2020 , 8, 32341-32352		1
644	Community detection in complex networks with an ambiguous structure using central node based link prediction. 2020 , 195, 105626		26

643	Optimizing Variational Graph Autoencoder for Community Detection with Dual Optimization. 2020 , 22,	4
642	Community Detection Based on a Preferential Decision Model. 2020 , 11, 53	
641	Multiobjective Particle Swarm Optimization Based on Network Embedding for Complex Network Community Detection. 2020 , 7, 437-449	19
640	Existence of chimera-like state in community structured networks. 2020 , 31, 2050069	1
639	Multiple instance deep learning for weakly-supervised visual object tracking. 2020 , 84, 115807	4
638	A model of opinion and propagation structure polarization in social media. 2020 , 7,	15
637	Chaotic memetic algorithm and its application for detecting community structure in complex networks. 2020 , 30, 013125	3
636	Towards effective discovery of natural communities in complex networks and implications in e-commerce. 2020 , 1	12
635	Detecting community structure in complex networks using genetic algorithm based on object migrating automata. 2020 , 36, 824-860	9
634	Constructing and Cleaning Identity Graphs in the LOD Cloud. 2020 , 2, 323-352	2
633	A Proximity-Based Generative Model for Online Social Network Topologies. 2020 ,	0
632	Time-Evolving Social Network Generator Based on Modularity: TESNG-M. 2020 , 7, 610-620	2
631	A Note on Some Bounds of the Estrada Index of Graphs. 2020 , 2020, 1-11	2
630	Constructing Real-Life Benchmarks for Community Detection by Rewiring Edges. 2020 , 2020, 1-16	2
629	A neighborhood link sensitive dismantling method for social networks. 2020 , 43, 101129	5
628	Semi-supervised stochastic blockmodel for structure analysis of signed networks. 2020 , 195, 105714	4
627	MONET: a toolbox integrating top-performing methods for network modularization. 2020 , 36, 3920-3921	5
626	Stacked autoencoder-based community detection method via an ensemble clustering framework. 2020 , 526, 151-165	15

625	. 2020 , 8, 46665-46681		2
624	A Compression-Based Multi-Objective Evolutionary Algorithm for Community Detection in Social Networks. 2020 , 8, 62137-62150		3
623	M-Link: a link clustering memetic algorithm for overlapping community detection. 2020 , 12, 87-99		7
622	Robust Structural Balance in Signed Networks Using a Multiobjective Evolutionary Algorithm. 2020 , 15, 24-35		7
621	Entropy based flow transfer for influence dissemination in networks. 2020 , 555, 124630		2
620	Characterization of network complexity by communicability sequence entropy and associated Jensen-Shannon divergence. <i>Physical Review E</i> , 2020 , 101, 042305	2.4	6
619	LookCom: Learning Optimal Network for Community Detection. 2020 , 1-1		0
618	Multiscale community estimation based on temporary local balancing strategy. 2020 , 31, 2050056		2
617	A novel metric for community detection. 2020 , 129, 68002		5
616	A Seed-Expanding Method Based on TOPSIS for Community Detection in Complex Networks. 2020 , 2020, 1-14		1
615	A community partitioning algorithm based on network enhancement. 2021 , 33, 42-61		3
614	Community detection in complex networks using network embedding and gravitational search algorithm. 2021 , 57, 51-72		9
613	Finding influential communities in networks with multiple influence types. 2021 , 548, 254-274		3
612	Comparing Graph Clusterings: Set Partition Measures vs. Graph-Aware Measures. 2021 , 43, 2127-2132		
611	Health level classification by fusing medical evaluation from multiple social networks. 2021 , 114, 574-580		3
610	A survey of community detection methods in multilayer networks. 2021 , 35, 1-45		28
609	Empirical determination of the optimal attack for fragmentation of modular networks. 2021 , 563, 125486		1
608	An improved limited random walk approach for identification of overlapping communities in complex networks. 2021 , 51, 3561-3580		4

607	Randomized shortest paths with net flows and capacity constraints. 2021 , 556, 341-360	7
606	Reconstruction of network connectivity by the interplay between complex structure and dynamics to discover climate networks. 2021 , 143, 969-987	1
605	Accelerating Louvain community detection algorithm on graphic processing unit. 2021 , 77, 6056-6077	5
604	A label propagation algorithm for community detection on high-mixed networks. 2021 , 33, e6141	
603	Community Detection in Complex Networks Using Link Strength-Based Hybrid Genetic Algorithm. 2021 , 2, 1	3
602	Visualizing complex networks by leveraging community structures. 2021 , 565, 125506	3
601	An effective and scalable overlapping community detection approach: Integrating social identity model and game theory. 2021 , 390, 125601	10
600	A three-stage algorithm for local community detection based on the high node importance ranking in social networks. 2021 , 563, 125420	14
599	A new method for quantifying network cyclic structure to improve community detection. 2021 , 561, 125116	1
598	Intelligent human hand gesture recognition by local/global fusing quality-aware features. 2021 , 115, 298-303	4
597	Scalable Community Detection for Complex Data Graphs via Hyperbolic Network Embedding and Graph Databases. 2021 , 8, 1269-1282	1
596	Overlapping Community Detection in Directed and Undirected Attributed Networks Using a Multiobjective Evolutionary Algorithm. 2021 , 51, 138-150	13
595	A Novel Local Community Detection Method Using Evolutionary Computation. 2021 , 51, 3348-3360	5
594	A Community Structure Enhancement-Based Community Detection Algorithm for Complex Networks. 2021 , 51, 2833-2846	11
593	An unsupervised framework for comparing graph embeddings. 2021 , 8,	2
592	Fast Average-consensus on Networks using Heterogeneous Diffusion. 2021 , 1-1	2
591	Netpro2vec: a Graph Embedding Framework for Biomedical Applications. 2021 , PP,	6
590	A classification of community detection methods in social networks: a survey. 2021 , 50, 63-91	7

589	Financial Networks and Structure of Global Financial Crime. 2021 , 131-152	0
588	QUINT: Node embedding using network hashing. 2021 , 1-1	0
587	Leader-Based Community Detection Algorithm in Attributed Networks. 2021 , 9, 119666-119674	1
586	A SIRD epidemic model with community structure. 2021 , 31, 013102	1
585	Collaborative Detection of Community Structure in Multiple Private Networks. 2021 , 1-12	2
584	Parallel label propagation algorithm based on weight and random walk. 2021 , 18, 1609-1628	
583	Overlapping Community Detection in Static and Dynamic Networks: A Qualitative Assessment. 2021 , 113-123	
582	A Practical Hands-on for Learning Graph Data Communities on Manifolds. 2021 , 428-459	
581	Artificial Benchmark for Community Detection (ABCD)Fast random graph model with community structure. 2021 , 9, 153-178	4
580	Boosting nonnegative matrix factorization based community detection with graph attention auto-encoder. 2021 , 1-1	2
579	Ising-Based Louvain Method: Clustering Large Graphs with Specialized Hardware. 2021 , 350-361	2
578	A Two-phase Method to Balance the Result of Distributed Graph Repartitioning. 2021 , 1-1	2
577	TNS-LPA: An Improved Label Propagation Algorithm for Community Detection Based on Two-Level Neighbourhood Similarity. 2021 , 9, 23526-23536	7
576	A Stochastic Block Model Based Approach to Detect Outliers in Networks. 2021 , 149-154	
575	The Space Complexity of Sum Labelling. 2021 , 230-244	
574	OUP accepted manuscript.	1
573	. 2021 , 9, 96501-96527	5
572	On Whole-Graph Embedding Techniques. 2021 , 115-131	3

571	A new tunable weighting strategy for enhancing the performance of network computation. 2021 , 0-0		
570	NeSiFC: Neighbors' Similarity-Based Fuzzy Community Detection Using Modified Local Random Walk. 2021 , PP,		1
569	A Regularized Convex Nonnegative Matrix Factorization Model for signed network analysis. 2021 , 11, 1		1
568	Detection of Contextual Anomalies in Attributed Graphs. 2021 , 338-349		
567	Impact of Discoordinated Care on Healthcare Utilization and Survival in Stage IV Non-Small Cell Lung Cancer Patients.		
566	Effects of Hidden Users on Cascade-Based Community Detection. 2021 , 1-11		2
565	Compactness Preserving Community Computation Via a Network Generative Process. 2021 , 1-13		3
564	A Novel Approach of Community Detection Using Association Rules Learning: Application to User Friendships of Online Social Networks. 2021 , 29-43		2
563	Multiscale Evolutionary Perturbation Attack on Community Detection. 2021 , 8, 62-75		3
562	Information Granulation-Based Community Detection for Social Networks. 2021 , 8, 122-133		13
561	Evaluating the Effectiveness of Community Detection Algorithms for Influence Maximization in Social Networks. 2021 ,		
560	Community detection in networks using graph embeddings. <i>Physical Review E</i> , 2021 , 103, 022316	2.4	3
559	Community detection based on first passage probabilities. 2021 , 390, 127099		3
558	The Node Vector Distance Problem in Complex Networks. 2021 , 53, 1-27		2
557	Proximity-based group formation game model for community detection in social network. 2021 , 214, 106670		5
556	Renyi entropy driven hierarchical graph clustering. 2021 , 7, e366		0
555	Mining communities and their descriptions on attributed graphs: a survey. 2021 , 35, 661-687		3
554	Selective network discovery via deep reinforcement learning on embedded spaces. 2021 , 6,		

553	A community detection algorithm based on Quasi-Laplacian centrality peaks clustering. 2021 , 51, 7917	1
552	Sparse randomized shortest paths routing with Tsallis divergence regularization. 2021 , 35, 986-1031	3
551	Influence propagation based community detection in complex networks. 2021 , 3, 100019	4
550	Multilevel Combinatorial Optimization across Quantum Architectures. 2021 , 2, 1-29	5
549	Correlation networks of air particulate matter (): a comparative study. 2021 , 6, 32	2
548	An empirical characterization of community structures in complex networks using a bivariate map of quality metrics. 2021 , 11, 1	0
547	Noise Corrected Sampling of Online Social Networks. 2021 , 15, 1-21	0
546	FastSGG: Efficient Social Graph Generation Using a Degree Distribution Generation Model. 2021 ,	1
545	Network Representation Learning Enhanced by Partial Community Information That Is Found Using Game Theory. 2021 , 12, 186	3
544	Community Detection in Large-Scale Bipartite Biological Networks. 2021 , 12, 649440	3
543	Locating highly connected clusters in large networks with HyperLogLog counters. 2021 , 9,	1
542	An Approach of Community Search with Minimum Spanning Tree Based on Node Embedding. 2021 , 2021, 1-13	
541	LPA-MNI: An Improved Label Propagation Algorithm Based on Modularity and Node Importance for Community Detection. 2021 , 23,	6
540	A Local-Neighborhood Information Based Overlapping Community Detection Algorithm for Large-Scale Complex Networks. 2021 , 29, 543-556	7
539	Local community detection algorithm based on local modularity density. 1	3
538	TCD2: Tree-based community detection in dynamic social networks. 2021 , 169, 114493	6
537	ProHiCo: A Probabilistic Framework to Hide Communities in Large Networks. 2021 ,	
536	AI-guided resource allocation and rescue decision system for medical applications. 2021 , 118, 485-491	3

535	Characterizing the interactions between classical and community-aware centrality measures in complex networks. 2021 , 11, 10088		10
534	Structure Learning for Hierarchical Regulatory Networks.		
533	A comparative analysis of knowledge acquisition performance in complex networks. 2021 , 555, 46-57		2
532	Massive-scale carbon pollution control and biological fusion under big data context. 2021 , 118, 257-262		1
531	A stable community detection approach for complex network based on density peak clustering and label propagation. 1		7
530	Consistency landscape of network communities. <i>Physical Review E</i> , 2021 , 103, 052306	2.4	1
529	Fast graph clustering in large-scale systems based on spectral coarsening. 2150131		0
528	A multilevel clustering technique for community detection. 2021 , 441, 64-78		6
527	Network community detection via iterative edge removal in a flocking-like system. 1		0
526	Optimising SARS-CoV-2 pooled testing strategies on social networks for low-resource settings. 2021 , 54, 294002		0
525	Community detection using constrained label propagation algorithm with nodes exemption. 1		1
524	Overlapping Structures Detection in Protein-Protein Interaction Networks Using Community Detection Algorithm Based on Neighbor Clustering Coefficient. 2021 , 12, 689515		1
523	How modular structure determines operational resilience of power grids. 2021 , 23, 063029		0
522	A review of heuristics and metaheuristics for community detection in complex networks: Current usage, emerging development and future directions. 2021 , 63, 100885		5
521	A new nature-inspired optimization for community discovery in complex networks. 2021 , 94, 1		0
520	A survey about community detection over On-line Social and Heterogeneous Information Networks. 2021 , 224, 107112		11
519	Application of State Transition Simulated Annealing Algorithm in Community Detection. 2021 , 1971, 012061		
518	Continuous encoding for community detection in complex networks. 2021 ,		1

517	Graph embedding via multi-scale graph representations. 2021 , 578, 102-102		0
516	The impact of digital contact tracing on the SARS-CoV-2 pandemic-a comprehensive modelling study. 2021 , 10, 37		4
515	Multi-objective optimization for community detection in multilayer networks. 2021 , 135, 18001		1
514	Endemic information-contagion outbreaks in complex networks with potential spreaders based recurrent-state transmission dynamics. 2021 , 573, 125907		3
513	A systematic comparison of community detection algorithms for measuring selective exposure in co-exposure networks. 2021 , 11, 15218		2
512	Local clustering via approximate heat kernel PageRank with subgraph sampling. 2021 , 11, 15786		
511	ma-CODE: A multi-phase approach on community detection in evolving networks. 2021 , 569, 326-343		2
510	Detect Overlapping Community Based on the Combination of Local Expansion and Label Propagation. 2021 , 14, 237		
509	Hide and Seek: Outwitting Community Detection Algorithms. 2021 , 8, 799-808		5
508	Potential-driven random walks on interconnected systems. <i>Physical Review E</i> , 2021 , 104, 024120	2.4	2
507	Detection of constant member and overlapping community from dynamic literary network. 2021 , 11, 1		
506	Selecting Clustering Algorithms for IBD Mapping.		0
505	A new metric to compare local community detection algorithms in social networks using geodesic distance. 1		0
504	Identifying Protein Complexes With Clear Module Structure Using Pairwise Constraints in Protein Interaction Networks. 2021 , 12, 664786		3
503	Overlapping community detection in networks based on link partitioning and partitioning around medoids. 2021 , 16, e0255717		2
502	Connectivity Based Functional Segmentation Of The Brainstem. 2021 ,		
501	Enriching networks with edge insertion to improve community detection. 2021 , 11, 1		1
500	Detection of key figures in social networks by combining harmonic modularity with community structure-regulated network embedding. 2021 , 570, 722-743		3

499	Unconsciousness reconfigures modular brain network dynamics. 2021 , 31, 093117	1
498	Network Analysis Based on Important Node Selection and Community Detection. 2021 , 9, 2294	4
497	An improved Girvan-Newman community detection algorithm using trust-based centrality. 1	
496	Balancing topology structure and node attribute in evolutionary multi-objective community detection for attributed networks. 2021 , 227, 107169	2
495	Modularity in Biological Networks. 2021 , 12, 701331	0
494	An improved gravity model to identify influential nodes in complex networks based on k-shell method. 2021 , 227, 107198	7
493	A unified framework for effective team formation in social networks. 2021 , 177, 114886	1
492	An efficient multi-swarm elephant herding optimization for solving community detection problem in complex environment. e6590	1
491	A fast local community detection algorithm in complex networks. 1	2
490	lBLT: An effective granular computing framework for hierarchical community detection. 1	1
489	Quantum k-community detection: algorithm proposals and cross-architectural evaluation. 2021 , 20, 1	0
488	Node2vec with weak supervision on community structures. 2021 , 150, 147-154	
487	Enhancing Graph Neural Networks by a High-quality Aggregation of Beneficial Information. 2021 , 142, 20-33	2
486	Comparison of social exclusion and punishment in promoting cooperation: Who should play the leading role?. 2021 , 151, 111229	7
485	Sparsity-aware robust community detection (SPARCODE). 2021 , 187, 108147	0
484	A network embedding-enhanced Bayesian model for generalized community detection in complex networks. 2021 , 575, 306-322	1
483	Deployment of Information Diffusion for Community Detection in Online Social Networks: A Comprehensive Review. 2021 , 8, 1083-1107	3
482	Evolutionary Algorithm for overlapping community detection using a merged maximal cliques representation scheme. 2021 , 112, 107746	0

481	APAL: Adjacency Propagation Algorithm for overlapping community detection in biological networks. 2021 , 579, 574-590	2
480	A fast variable neighborhood search approach for multi-objective community detection. 2021 , 112, 107838	1
479	Detecting covert communities in multi-layer networks: A network embedding approach. 2021 , 124, 467-479	1
478	PLDLS: A novel parallel label diffusion and label Selection-based community detection algorithm based on Spark in social networks. 2021 , 183, 115377	7
477	ACSIMCD: A 2-phase framework for detecting meaningful communities in dynamic social networks. 2021 , 125, 399-420	1
476	Community-based k-shell decomposition for identifying influential spreaders. 2021 , 120, 108130	2
475	CPNSA: Cascade Prediction with Network Structure Attention. 2021 , 64-79	
474	Large-Scale Network Community Detection Using Similarity-Guided Merge and Refinement. 2021 , 9, 78538-78552	0
473	A New Novel Label Propagation Algorithm. 2021 , 39-46	
472	An Overlapping Local Community Detection Algorithm Based on Node Transitivity and Modularity Density. 2021 , 484-498	
471	VIKING: Adversarial Attack on Network Embeddings via Supervised Network Poisoning. 2021 , 103-115	
470	Disjoint and Overlapping Community Detection in Small-World Networks Leveraging Mean Path Length. 2021 , 1-13	1
469	Balanced Weighted Label Propagation. 2021 , 1-12	0
468	Fuzzy Community Detection Based on Elite Symbiotic Organisms Search and Node Neighborhood Information. 2021 , 1-1	0
467	Community detection in dynamic networks: a comprehensive and comparative review using external and internal criteria. 2021 , 12, 217-230	0
466	Where the Local Search Affects Best in an Immune Algorithm. 2021 , 99-114	1
465	Identification of Network Topology Variations Based on Spectral Entropy. 2021 , PP,	4
464	HiDeF: identifying persistent structures in multiscale 'omics data. 2021 , 22, 21	11

463	Bayesian Stochastic Blockmodeling. 2019 , 289-332	21
462	Different Approaches to Community Detection. 2019 , 105-119	10
461	Label Propagation for Clustering. 2019 , 121-150	2
460	Framework for Fast Identification of Community Structures in Large-Scale Social Networks. 2010 , 149-175	5
459	Encyclopedia of Social Network Analysis and Mining. 2014 , 573-588	4
458	Encyclopedia of Social Network Analysis and Mining. 2014 , 404-414	20
457	Encyclopedia of Social Network Analysis and Mining. 2017 , 1-11	1
456	Encyclopedia of Social Network Analysis and Mining. 2017 , 1-10	4
455	Encyclopedia of Social Network Analysis and Mining. 2018 , 161-171	1
454	Encyclopedia of Social Network Analysis and Mining. 2018 , 891-907	1
453	A Greedy Heuristic for Crossing-Angle Maximization. 2018 , 286-299	4
452	Exploring Partially Observed Networks with Nonparametric Bandits. 2019 , 158-168	1
451	In Pursuit of Social Capital: Upgrading Social Circle Through Edge Rewiring. 2019 , 207-222	3
450	Exorcising the Demon: Angel, Efficient Node-Centric Community Discovery. 2020 , 152-163	2
449	Evaluating the Community Structures from Network Images Using Neural Networks. 2020 , 866-878	1
448	A Differential Evolution-Based Approach for Community Detection in Multilayer Networks with Attributes. 2020 , 250-265	1
447	Community Detection Algorithm Using Hypergraph Modularity. 2021 , 152-163	3
446	Local Community Detection Algorithm with Self-defining Source Nodes. 2021 , 200-210	2

445	Community Detection in Bipartite Networks Using Random Walks. 2014 , 157-165	10
444	The Bridge Edge Label Propagation for Overlapping Community Detection in Social Networks. 2014 , 97-102	1
443	A Methodology for Generating Time-Varying Complex Networks with Community Structure. 2014 , 344-359	0
442	Modularity Maximization Adjusted by Neural Networks. 2014 , 287-294	1
441	Considerations About Multistep Community Detection. 2014 , 549-561	2
440	On the Evaluation Potential of Quality Functions in Community Detection for Different Contexts. 2016 , 111-125	8
439	Improving Network Community Structure with Link Prediction Ranking. 2016 , 145-158	3
438	Detecting Overlapping Community in Social Networks Based on Fuzzy Membership Degree. 2016 , 99-110	2
437	Comparison of Linear Modularization Criteria Using the Relational Formalism, an Approach to Easily Identify Resolution Limit. 2017 , 101-120	2
436	Clustering Evolving Networks. 2016 , 280-329	18
435	Community Detection in Dynamic Attributed Graphs. 2016 , 329-344	2
434	Battlespace Mobile/Ad Hoc Communication Networks: Performance, Vulnerability and Resilience. 2018 , 303-314	2
433	Three-Way Decision Community Detection Algorithm Based on Local Group Information. 2017 , 171-182	2
432	An Enhanced Particle Swarm Optimization Based on Physarum Model for Community Detection. 2017 , 99-108	1
431	Attributed Graph Clustering with Unimodal Normalized Cut. 2017 , 601-616	11
430	Local Lanczos Spectral Approximation for Community Detection. 2017 , 651-667	12
429	Fluid Communities: A Competitive, Scalable and Diverse Community Detection Algorithm. 2018 , 229-240	22
428	Detecting Community Structure in Dynamic Social Networks Using the Concept of Leadership. 2018 , 97-118	10

427	Optimal Modularity in Complex Contagion. 2018 , 97-107	3
426	A Genetic Algorithm for Community Detection in Attributed Graphs. 2018 , 159-170	7
425	Finding Community Structure Based on Subgraph Similarity. 2009 , 73-81	13
424	Bottleneck Attack Strategies on Complex Communication Networks. 2010 , 418-425	1
423	Social Based Layouts for the Increase of Locality in Graph Operations. 2011 , 558-569	4
422	FRINGE: A New Approach to the Detection of Overlapping Communities in Graphs. 2011 , 638-653	5
421	Qualitative Comparison of Community Detection Algorithms. 2011 , 265-279	31
420	Bi-Objective Community Detection (BOCD) in Networks Using Genetic Algorithm. 2011 , 5-15	14
419	Communities Unfolding in Multislice Networks. 2011 , 187-195	15
418	Community Structure: An Introduction. 2013 , 1-17	2
417	Active Semi-supervised Community Detection Algorithm with Label Propagation. 2013 , 324-338	10
416	Fast Community Detection. 2013 , 404-418	0
415	Force-Directed Layout Community Detection. 2013 , 419-427	4
414	Three-Way Decision Based Overlapping Community Detection. 2013 , 279-290	4
413	An Improved Parallel Hybrid Seed Expansion (PHSE) Method for Detecting Highly Overlapping Communities in Social Networks. 2013 , 385-396	2
412	Generating Random Hyperbolic Graphs in Subquadratic Time. 2015 , 467-478	15
411	EgoClustering: Overlapping Community Detection via Merged Friendship-Groups. 2013 , 1-20	5
410	Detecting Communities in Massive Networks Efficiently with Flexible Resolution. 2013 , 373-392	3

409	Overlapping Community Discovery Methods: A Survey. 2014 , 105-125	25
408	Voronoi Diagram-Based Geometric Approach for Social Network Analysis. 2014 , 359-369	2
407	A Comparative Analysis of Community Detection Algorithms on Social Networks. 2019 , 287-298	3
406	Latent Feature Representation for Cohesive Community Detection Based on Convolutional Auto-Encoder. 2019 , 380-394	0
405	Multi-objective clustering technique based on k-nodes update policy and similarity matrix for mining communities in social networks. 2017 , 486, 1-24	11
404	Label propagation algorithm based on node importance. 2020 , 551, 124137	11
403	The impact of digital contact tracing on the SARS-CoV-2 pandemic - a comprehensive modelling study.	5
402	MONET: a toolbox integrating top-performing methods for network modularisation.	1
401	Network modularity controls the speed of information diffusion. <i>Physical Review E</i> , 2020 , 102, 052316	2.4 4
400	A framework for the construction of generative models for mesoscale structure in multilayer networks. 2020 , 2,	11
399	SIG-CLA: A Significant Community Detection based on Cellular Learning Automata. 2020 ,	4
398	An extended distributed learning automata based algorithm for solving the community detection problem in social networks. 2017 ,	8
397	Density Peaks Based Clustering Algorithm for Overlapping Community Detection. 2016 ,	1
396	Community leader and transition probability based LPA. 2020 , 34, 2050253	1
395	Node Trust: an effective method to detect non-overlapping community in social networks. 2021 , 35, 2150036	1
394	Communities Found by Users -- not Algorithms. 2016 ,	5
393	Even central users do not always drive information diffusion. 2019 , 62, 61-67	31
392	Sentinel Nodes Identification for Infectious Disease Surveillance on Temporal Social Networks. 2019 ,	3

391	Noise-Enhanced Community Detection. 2020 ,	6
390	Graph Generators. 2020 , 53, 1-30	8
389	Network Embedding for Community Detection in Attributed Networks. 2020 , 14, 1-25	21
388	Average Sensitivity of Spectral Clustering. 2020 ,	1
387	A Review of Gamified Fitness Tracker Apps and Future Directions. 2020 ,	3
386	Genetic Algorithms Approach to Community Detection. 2010 , 117, 703-705	8
385	Community landscapes: an integrative approach to determine overlapping network module hierarchy, identify key nodes and predict network dynamics. 2010 , 5, e12528	139
384	Deciphering network community structure by surprise. 2011 , 6, e24195	64
383	Network selection: a method for ranked lists selection. 2012 , 7, e43678	3
382	Extracting tag hierarchies. 2013 , 8, e84133	17
381	Community structure and the evolution of interdisciplinarity in Slovenia's scientific collaboration network. 2014 , 9, e94429	44
380	Identifying and characterizing key nodes among communities based on electrical-circuit networks. 2014 , 9, e97021	5
379	Exploring function prediction in protein interaction networks via clustering methods. 2014 , 9, e99755	11
378	Community Size Effects on Epidemic Spreading in Multiplex Social Networks. 2016 , 11, e0152021	33
377	Link-Prediction Enhanced Consensus Clustering for Complex Networks. 2016 , 11, e0153384	20
376	Clustering Scientific Publications Based on Citation Relations: A Systematic Comparison of Different Methods. 2016 , 11, e0154404	63
375	Detecting Community Structure by Using a Constrained Label Propagation Algorithm. 2016 , 11, e0155320	20
374	Locating Structural Centers: A Density-Based Clustering Method for Community Detection. 2017 , 12, e0169355	24

373	Analysis of the communities of an urban mobile phone network. 2017 , 12, e0174198	14
372	Exploring the roles of cannot-link constraint in community detection via Multi-variance Mixed Gaussian Generative Model. 2017 , 12, e0178029	7
371	Community detection in dynamic networks via adaptive label propagation. 2017 , 12, e0188655	16
370	Predicting species emergence in simulated complex pre-biotic networks. 2018 , 13, e0192871	7
369	Finding large diverse communities on networks. 2020 , 13, 2576-2589	4
368	Community Detection Algorithm based on Centrality and Node Closeness in Scale-Free Networks. 2014 , 29, 234-244	3
367	Community Detection in Scale-Free Networks using Edge Weight and Modularity Optimization Method. 2015 , 30, 84-95	2
366	High-Modularity Network Generation Model Based on the Multilayer Network. 2017 , 32, B-H42_1-11	2
365	A Simple Acceleration Method for the Louvain Algorithm. 2016 , 8, 207-218	18
364	A Fast Method of Detecting Overlapping Community in Network Based on LFM. 825-834	2
363	Trading Communities, the Networked Structure of International Relations and the Kantian Peace.	1
362	Disease Module Identification Based on Representation Learning of Complex Networks Integrated From GWAS, eQTL Summaries, and Human Interactome. 2020 , 8, 418	6
361	Efficient Greedy Algorithms for Influence Maximization in Social Networks. 2014 , 10, 471-482	3
360	An Efficient Approach for Community Detection in Complex Social Networks Based on Elephant Swarm Optimization Algorithm. 2017 , 1062-1075	4
359	A new network structure entropy based on maximum flow. 2014 , 63, 060504	4
358	Evaluating influential spreaders in complex networks by extension of degree. 2015 , 64, 088901	4
357	Deconvoluting simulated metagenomes: the performance of hard- and soft- clustering algorithms applied to metagenomic chromosome conformation capture (3C). 2016 , 4, e2676	10
356	Community detection in social networks by incorporating the preferential selection. 2021 , 9,	

355	Key Node Discovery Algorithm Based on Multiple Relationships and Multiple Features in Social Networks. 2021 , 2021, 1-12		0
354	Opinion Dynamic Modeling of News Perception. 2021 , 6,		0
353	TSCDA: A novel greedy approach for community discovery in networks.		
352	A New Edge Betweenness Measure Using a Game Theoretical Approach: An Application to Hierarchical Community Detection. 2021 , 9, 2666		0
351	X-Mark: a benchmark for node-attributed community discovery algorithms. 2021 , 11, 1		1
350	Ranking-Based Community Detection for Social Networks. 2022 , 292-300		0
349	Systematic comparison of graph embedding methods in practical tasks. <i>Physical Review E</i> , 2021 , 104, 044315	2.4	1
348	Social Network Community Detection by Combining Self-Organizing Maps and Genetic Algorithms. 2021 , 2021, 1-14		
347	Evaluating Network Threshold Selection for Structural and Functional Brain Connectomes.		0
346	Comparing Fuzzy Algorithms on Overlapping Communities in Networks. 2010 , 269-276		
345	Computing an Aggregate Edge-Weight Function for Clustering Graphs with Multiple Edge Types. 2010 , 25-35		4
344	Protein Function Prediction by Spectral Clustering of Protein Interaction Network. 2011 , 108-117		
343	Multi-resolution density modularity for finding community structure in complex networks. 2012 , 61, 148902		5
342	An Enhanced Community Detection Algorithm Using Modularity in Large Networks. 2012 , 13, 75-82		2
341	Community Structure and Diffusion Dynamics on Networks. 2013 , 73-92		
340	Exploring Complex Drawings via Edge Stratification. 2013 , 304-315		1
339	Graph Clustering by Maximizing Statistical Association Measures. 2013 , 56-67		
338	Multiscale Community Detection in Networks with Heterogeneous Degree Distributions. 2013 , 45-71		

337 DPE for Network Generation. **2014**, 113-141

336 Encyclopedia of Social Network Analysis and Mining. **2014**, 517-525

1

335 Community Detection. **2014**, 11-47

334 A Community Detection Algorithm Based on Cooperative Game. **2014**, 04, 38-50

333 A Parallel and Scalable Framework for Non-overlapping Community Detection Algorithms. **2014**, 115-126

332 Optimizing a Hierarchical Community Structure of a Complex Network. **2014**, 3-14

0

331 Generating Large-Scale Heterogeneous Graphs for Benchmarking. **2014**, 113-128

2

330 Betweenness versus Linerank. **2014**, 424-433

329 Encyclopedia of Social Network Analysis and Mining. **2014**, 214-220

1

328 Relative Validity Criteria for Community Mining Algorithms. **2014**, 1562-1576

1

327 An Improved Community Partition Algorithm Integrating Mutual Information. **2014**, 9,

326 A Novel Algorithm Infomap-SA of Detecting Communities in Complex Networks. **2015**,

2

325 Link Quality Prediction via a Neighborhood-Based Nonnegative Matrix Factorization Model for Wireless Sensor Networks. **2015**, 2015, 1-8

0

324 Bayesian Ridge-Regularized Covariance Selection with Community Behavior in Latent Gaussian Graphical Models. **2015**, 207-216

323 Transmission of Energy. **2016**, 45-83

322 Complex Networks. **2016**, 13-43

321 Community Detection in Networks with Less Significant Community Structure. **2016**, 65-80

0

320 On Statistical Characteristics of Real-Life Knowledge Graphs. **2016**, 37-49

1

- 319 Incorporation of Social Features in the Naming Game for Community Detection. **2016**, 119-131
- 318 A Novel Approach for Discovering Local Community Structure in Networks. **2016**, 363-374
- 317 A Technique for Detecting Interaction-based Communities in Dynamic Networks. **2016**, 22, 357-362
- 316 The Nature of Social Structures. **2017**, 1-16 1
- 315 An improved evaluating method of node spreading influence in complex network based on information spreading probability. **2017**, 66, 208901 1
- 314 Encyclopedia of Social Network Analysis and Mining. **2017**, 1-8
- 313 Encyclopedia of Social Network Analysis and Mining. **2017**, 1-15
- 312 Community Detection Under Exponential Random Graph Model: A Metaheuristic Approach. **2017**, 87-98 1
- 311 Network Community Discovery with Evolutionary Multi-objective Optimization. **2017**, 73-134
- 310 Encyclopedia of Social Network Analysis and Mining. **2017**, 1-7
- 309 Encyclopedia of Social Network Analysis and Mining. **2017**, 1-16
- 308 Node-Centric Detection of Overlapping Communities in Social Networks. **2017**, 1-10 3
- 307 Encyclopedia of Social Network Analysis and Mining. **2017**, 1-9
- 306 Introduction. **2017**, 1-20
- 305 RETRACTED ARTICLE: Image quality tendency modeling by fusing multiple visual cues. **2020**, 79, 9643-9643
- 304 Detection of communities with Naming Game-based methods. **2017**, 12, e0182737 1
- 303 Edge Representation Learning for Community Detection in Large Scale Information Networks. **2018**, 54-72 1
- 302 Encyclopedia of Social Network Analysis and Mining. **2018**, 669-678 1

- 301 Encyclopedia of Social Network Analysis and Mining. **2018**, 351-357
- 300 Encyclopedia of Social Network Analysis and Mining. **2018**, 322-330
- 299 Finding Overlapping Communities by Increasing the Determinacy of SLPA in Complex Networks. **2018**, 111-122 1
- 298 Encyclopedia of Social Network Analysis and Mining. **2018**, 826-834
- 297 A Discrete Black Hole Optimization Algorithm for Efficient Community Detection in Social Networks. **2018**, 133-153
- 296 Encyclopedia of Social Network Analysis and Mining. **2018**, 1435-1450
- 295 A similarity based agglomerative clustering algorithm in networks. **2018**,
- 294 A Novel Hybrid Algorithm for Overlapping Community Detection in Social Network Using Community Forest Model and Nash Equilibrium. **2019**, 491-500
- 293 Overlapping Community Detection Algorithm Based on Spectral and Fuzzy C-Means Clustering. **2019**, 487-497
- 292 An Overlapping Community Detection Algorithm Based on Triangle Coarsening and Dynamic Distance. **2019**, 285-300
- 291 Modeling the Co-evolving Polarization of Opinion and News Propagation Structure in Social Media. **2019**, 314-326
- 290 A Palliative Care Simulator and Visualization Framework. **2019**, 317-327
- 289 A New Multi-objective Evolution Model for Community Detection in Multi-layer Networks. **2019**, 197-208 2
- 288 Using Synthetic Networks for Parameter Tuning in Community Detection. **2019**, 1-15 1
- 287 Non-negative Matrix Factorization with Community Kernel for Dynamic Community Detection. **2019**, 778-792
- 286 Encyclopedia of Big Data Technologies. **2019**, 841-848
- 285 Searching for Network Modules. **2020**, 564-585
- 284 Computing node clustering coefficients securely. **2019**,

- 283 Community Finding with Applications on Phylogenetic Networks. **2020**, 1935-1953 1
- 282 Overlapping community detection algorithm based on improved KNN. **2019**, 1-8
- 281 Refining modules to determine functionally significant clusters in molecular networks.
- 280 Novel Edge and Density Metrics for Link Cohesion. **2020**, 52-63
- 279 Community-Aware Content Diffusion: Embeddednes and Permeability. **2020**, 362-371
- 278 Deep Reinforcement Learning for Task-Driven Discovery of Incomplete Networks. **2020**, 903-914
- 277 Impact of Network Topology on Efficiency of Proximity Measures for Community Detection. **2020**, 188-197 3
- 276 CDIA: A Feasible Community Detection Algorithm Based on Influential Nodes in Complex Networks. **2020**, 930-937
- 275 Metrics Matter in Community Detection. **2020**, 164-175 1
- 274 Overlapping Community Detection Using Multi-objective Approach and Rough Clustering. **2020**, 416-431 1
- 273 A Proposal for a Benchmark Generator of Weakly Connected Directed Graphs. **2020**, 08, 18-34
- 272 Detection Model of Communication Network Community Structure based on Spectral Method. **2020**,
- 271 Direction-optimizing label propagation and its application to community detection. **2020**, 0
- 270 Identifying persistent structures in multiscale 'omics data. **2020**,
- 269 Community Fabric: Visualizing communities and structure in dynamic networks. 147387162110560
- 268 The machinery of the weight-based fusion model for community detection in node-attributed social networks. **2021**, 11, 1 0
- 267 Theory of preference modelling for communities in scale-free networks. **2021**, 6,
- 266 Global and local community memberships for estimating spreading capability of nodes in social networks. **2021**, 6, 84

265	Modularity-based representation learning for networks. 2020 , 29, 128901	1
264	Overlapping Community Detection Based on Membership Degree Propagation. 2020 , 23,	3
263	Local hypergraph clustering using capacity releasing diffusion. 2020 , 15, e0243485	
262	Using Preference Intensity for Detecting Network Communities. 2021 , 137-151	0
261	Opinion Dynamic Modeling of Fake News Perception. 2021 , 370-381	0
260	Detecting the number of clusters in a network. 2021 , 8,	1
259	Proximity, Communities, and Attributes in Social Network Visualisation. 2020 ,	
258	Stimulation Index of Cascading Transmission in Information Diffusion over Social Networks. 2021 , 469-481	1
257	Evaluating community detection algorithms for progressively evolving graphs. 2021 , 8,	6
256	Community Detection in Static and Dynamic Social Networks. 2020 ,	
255	Local community detection based on higher-order structure and edge information. 2022 , 587, 126513	2
254	Fast Algorithm for Distance Dynamics-Based Community Detection. 2020 , 213-226	
253	Population Learning Based Memetic Algorithm for Community Detection in Complex Networks. 2021 , 275-288	2
252	A Comparative Study of Community Detection Techniques for Large Evolving Graphs. 2020 , 368-384	
251	DSCAN: Distributed Structural Graph Clustering for Billion-Edge Graphs. 2020 , 38-54	4
250	A Scalable Unsupervised Framework for Comparing Graph Embeddings. 2020 , 52-67	0
249	Uncovering Hidden Block Structure for Clustering. 2020 , 140-155	2
248	Addressing the Resolution Limit and the Field of View Limit in Community Mining. 2020 , 210-222	1

- 247 A Community Detection Method Based on the Subspace Similarity of Nodes in Complex Networks. **2020**, 105-120
- 246 Improved Multilevel Algorithm to Detect Communities in Flight Networks. **2020**, 573-587
- 245 Fast One-to-Many Reliability Estimation for Uncertain Graphs. **2020**, 106-121
- 244 Regularized Spectral Clustering With Entropy Perturbation. **2020**, 1-1 1
- 243 Overlapping Community Detection Method Based on Network Representation Learning and Density Peaks. **2020**, 8, 226506-226514
- 242 Influence Maximization Based on Community Closeness in Social Networks. **2020**, 142-156
- 241 . **2020**, 1-1 0
- 240 Community Detection in Complex Networks Using Algorithms Based on K-Means and Entropy. **2020**, 241-251
- 239 Large-scale graph generation: Recent results of the SPP 1736 [Part II. **2020**, 62, 135-144
- 238 DynComm. **2021**, 12, 0-0
- 237 A node-based index for clustering validation of graph data. 1
- 236 A Network Generator for Covert Network Structures. **2021**, 584, 387-387
- 235 Quantifying dissimilarities between heterogeneous networks with community structure. **2021**, 588, 126574 0
- 234 Community enhancement network embedding based on edge reweighting preprocessing. **2020**, 2020, 103403 0
- 233 Examining the Distribution, Modularity, and Community Structure in Article Networks for Systematic Reviews. **2015**, 2015, 1927-36 4
- 232 Label Propagation Algorithm Joint Multilayer Neighborhood Overlap and Historic Label Similarity for Community Detection. **2021**, 1-9 0
- 231 Epidemic dynamics on metapopulation networks with node2vec mobility. **2021**, 534, 110960 2
- 230 Graph Community Infomax. **2022**, 16, 1-21

229	Edge Clustering Coefficient based Label Initialization for Label Propagation Algorithm to Detect Community Structures in Complex Networks. 2021 ,	
228	Scalable Community Detection in the Degree-Corrected Stochastic Block Model. 2021 ,	
227	Community detection in complex network by network embedding and density clustering. 2021 , 1-12	
226	Multisway -spectral graph cuts on Grassmann manifolds.. 2022 , 111, 791-829	1
225	Improving the stability of label propagation algorithm by propagating from low-significance nodes for community detection in social networks. 1	1
224	A novel method of spectral clustering in attributed networks by constructing parameter-free affinity matrix. 1	12
223	Bees colonies for terrorist communities evolution detection. 2022 , 12, 1	0
222	Modeling Transitivity in Local Structure Graph Models. 1	
221	The Effect of Local and Global Interventions on Epidemic Spreading. 2021 , 18,	0
220	Finding Central Vertices and Community Structure via Extended Density Peaks-Based Clustering. 2021 , 12, 501	
219	Higher-Order Truss Decomposition in Graphs. 2021 , 1-1	
218	Community Detection Using Semilocal Topological Features and Label Propagation Algorithm. 2021 , 255-266	
217	On the Statistical Significance of a Community Structure. 2021 , 1-1	
216	Performance Evaluation of Adversarial Attacks on Whole-Graph Embedding Models. 2021 , 219-236	2
215	Dissecting Graph Measure Performance for Node Clustering in LFR Parameter Space. 2022 , 328-341	1
214	Community Detection by Resistance Distance: Automation and Benchmark Testing. 2022 , 309-320	1
213	Identifying Multiple Influential Spreaders in Complex Networks by Considering the Dispersion of Nodes. 2022 , 9,	0
212	Network representation learning based on community-aware and adaptive random walk for overlapping community detection. 1	1

211	Synwalk: community detection via random walk modelling. 1	1
210	When Less Is More: Systematic Analysis of Cascade-Based Community Detection. 2022 , 16, 1-22	
209	Identification of Key Nodes Based on Integrating of Global and Local Information. 2020 ,	0
208	Beetle Antennae Search Algorithm for Community Detection in Complex Network. 2020 ,	0
207	A Literature Survey on Label Propagation for Community Detection. 2021 ,	2
206	Prediction of link evolution using community detection in social network. 1	2
205	Metapopulation models imply non-Poissonian statistics of interevent times. 2022 , 4,	
204	MINC-NRL: An Information-Based Approach for Community Detection. 2022 , 15, 20	2
203	Factoring Small World Networks. 2022 , 438-450	
202	From Mean-Field to 'Complex Topologies: Network Effects on the 'Algorithmic Bias Model. 2022 , 329-340	0
201	Link Predictability Classes in 'Complex Networks. 2022 , 376-387	1
200	Local community detection with hints. 1	2
199	A k-Mean Classification Study of Eight Community Detection Algorithms: Application to Synthetic Social Network Datasets. 2022 , 557-572	
198	Community detection combining topology and attribute information. 2022 , 64, 537	1
197	A fast community detection algorithm using a local and multi-level label diffusion method in social networks. 1-34	0
196	Selecting Informative Features for Post-hoc Community Explanation. 2022 , 297-308	1
195	Degree-targeted cascades in modular, degree-heterogeneous networks. 2022 , 4,	
194	The Infinity Mirror Test for Graph Models. 2022 , 1-1	

193	How minimizing conflicts could lead to polarization on social media: An agent-based model investigation.. 2022 , 17, e0263184	2
192	Community detection via network node vector label propagation. 2022 , 593, 126931	0
191	A novel potential edge weight method for identifying influential nodes in complex networks based on neighborhood and position. 2022 , 60, 101591	0
190	Detecting Network Communities Via Greedy Expanding Based on Local Superiority Index.	
189	A Neighbour-Similarity Based Community Discovery Algorithm.	1
188	Improving Togetherness Using Structural Entropy. 2022 , 85-98	0
187	A Multi-Label Propagation Algorithm With the Double-Layer Filtering Strategy for Overlapping Community Detection. 2022 , 10, 33037-33047	0
186	Social Network Analysis of Two Networks: Adolescent School Network and Bitcoin Trader Network.	
185	NOCD: a new overlapping community detection algorithm based on improved KNN. 1	0
184	Multiple Ant Colony Algorithm Combining Community Relationship Network.. 2022 , 1-16	1
183	Predicting stimulation index of information transmissions by local structural features in social networks. 2022 , 12, 1	
182	A New Evolutionary Model Based on Cellular Learning Automata and Chaos Theory. 1	0
181	Escape velocity centrality: escape influence-based key nodes identification in complex networks. 1	0
180	TSCDA: a dynamic two-stage community discovery approach. 2022 , 12, 1	
179	Community Detection Based on Node Influence and Similarity of Nodes. 2022 , 10, 970	
178	Characterizing the reputation of evaluators using vectors in the object feature space. 2022 , 117136	
177	Overlapping community detection in networks based on Neutrosophic theory. 2022 , 127359	0
176	PMCDM: Privacy-preserving multiresolution community detection in multiplex networks. 2022 , 244, 108542	1

- 175 Disintegrating constant communities in complex networks. **2022**, 61, 101634 ○
- 174 Influence percolation method for overlapping community detection. **2022**, 596, 127103 ○
- 173 An algorithm for network community structure determination by surprise. **2022**, 595, 127063 ○
- 172 A novel relevance-based information interaction model for community detection in complex networks. **2022**, 196, 116607 ○
- 171 Single-particle optimization for network embedding preserving both local and global information. **2022**, 71, 101069 ○
- 170 The evolving network model with community size and distance preferences. **2022**, 596, 127112 ○
- 169 Towards scaling community detection on distributed-memory heterogeneous systems. **2022**, 111, 102898 ○
- 168 A Novel Triangle Count-Based Influence Maximization Method on Social Networks. **2021**, 12, 1-17 1
- 167 A novel knowledge-based multi-population framework for studying opinion dynamics of migrated individuals. **2021**,
- 166 Parallel Planar Approximation for Large Networks. **2021**,
- 165 Incremental methods for community detection in both fully and growing dynamic networks. **2021**, 13, 220-250 1
- 164 Progressive Graph Partitioning Based on Information Diffusion. **2021**, ○
- 163 Edge intelligence-enabled dynamic overlapping community discovery and evolution prediction in social media data streams. ○
- 162 Community Detection Based on Density Peak Clustering Model and Multiple Attribute Decision-Making Strategy TOPSIS. **2021**, 2021, 1-18 2
- 161 A Modular Framework for Centrality and Clustering in Complex Networks. **2022**, 10, 40001-40026
- 160 A Novel Cutting Double k-Clique Spanning Tree Method for Coalition Detection from Brain Functional Networks. **2022**, 83-95
- 159 Overlapping communities detection based on cluster-ability optimization. **2022**,
- 158 Clustering as a dual problem to colouring. **2022**, 41, 1

- 157 Quadratic Optimization based Clique Expansion for overlapping community detection. **2022**, 108760 ○
- 156 Table_1.XLSX. **2020**,
- 155 Table_2.XLSX. **2020**,
- 154 Graph Neural Network Encoding for Community Detection in Attribute Networks. **2021**, PP, 2
- 153 Community Detection Based on Fish School Effect. **2022**, 10, 48523-48538 ○
- 152 OUP accepted manuscript.
- 151 An Information-Theoretic Approach for Detecting Community Structure Based on Network Representation. **2022**, 12, 4203
- 150 A social network analysis of two networks: Adolescent school network and Bitcoin trader network. **2022**, 100065 1
- 149 Robustness modularity in complex networks. *Physical Review E*, **2022**, 105, 2.4 ○
- 148 Evolution of Cooperation in Signed Networks Under a Cheating Strategy. **2021**,
- 147 Label Propagation Community Detection Algorithm Based on Density Peak Optimization. **2022**, 2022, 1-12
- 146 Network Extraction and Analysis of Character Relationships in Chinese Literary Works. **2022**, 2022, 1-10 ○
- 145 SSPCO: A new particle propagation model for community detection in complex network. ○
- 144 A potential mechanism for low tolerance feedback loops in social media flagging systems. **2022**, 17, e0268270
- 143 Multi-step locally expansion detection method using dispersed seeds for overlapping community. **2022**, 47, 02008
- 142 Machine-Learning Based Objective Function Selection for Community Detection. **2022**, 135-152
- 141 A Community Detection Algorithm Based on Correlation Analysis of Connection Pattern. **2022**, ○
- 140 Dynamic Local Community Detection Algorithms. **2022**,

- 139 DMCS : Density Modularity based Community Search. **2022**, 0
- 138 Detecting network communities via greedy expanding based on local superiority index. **2022**, 127722 1
- 137 A Graph-Cut-Based Approach to Community Detection in Networks. **2022**, 12, 6218 2
- 136 EXPRESS: Multimarket Membership Mapping. 002224372211104 0
- 135 An exact method for influence maximization based on deterministic linear threshold model.
- 134 OCSM : Finding overlapping cohesive subgraphs with minimum degree. **2022**, 607, 585-602 0
- 133 Differentiated graph regularized non-negative matrix factorization for semi-supervised community detection. **2022**, 604, 127692
- 132 Importance of Numerical Implementation and Clustering Analysis in Force-Directed Algorithms for Accurate Community Detection. **2022**, 431, 127310
- 131 Community detection using Local Group Assimilation. **2022**, 206, 117794
- 130 A neighbour-similarity based community discovery algorithm. **2022**, 206, 117822
- 129 A Multiagent Memetic Optimization Algorithm Based on Temporal Asymptotic Surprise in Complex Networks to Reveal the Structure of the Dynamic Community. **2022**, 2022, 1-23
- 128 A review of clique-based overlapping community detection algorithms.
- 127 A Model to Generate Benchmark Network with Community Structure. **2023**, 235-244
- 126 Identification of Metropolitan Area Boundaries Based on Comprehensive Spatial Linkages of Cities: A Case Study of the Beijing-Tianjin-Hebei Region. **2022**, 11, 396 0
- 125 Explainability in Graph Data Science: Interpretability, replicability, and reproducibility of community detection. **2022**, 39, 25-39
- 124 LapEFCM: overlapping community detection using laplacian eigenmaps and fuzzy C-means clustering.
- 123 Link predictability classes in large node-attributed networks. **2022**, 12,
- 122 GraphReformCD: Graph Reformulation for Effective Community Detection in Real-World Graphs. **2022**,

121	Querying Maximum Quasi-independent Set by Pay-and-Recycle. 2022,	
120	Social Isolation Detection in Palliative Care using Social Network Analysis. 2022,	1
119	Graph Embedding Based on Feature Propagation for Community Detection. 2022,	
118	Evaluating node embeddings of complex networks. 2022, 10,	1
117	20 years of network community detection. 2022, 18, 848-850	2
116	Online influence maximization in the absence of network structure. 2022, 109654	0
115	GHOC: A generative model for hybrid-order community detection.	
114	Map equation centrality: community-aware centrality based on the map equation. 2022, 7,	2
113	DAC: Descendant-aware clustering algorithm for network-based topic emergence prediction. 2022, 16, 101320	
112	Evolutionary multiobjective overlapping community detection based on similarity matrix and node correction. 2022, 127, 109397	0
111	Community detection in complex network based on an improved random algorithm using local and global network information. 2022, 206, 103492	
110	Functional rich clubs emerging from the diffusion geometry of complex networks. 2022, 4,	0
109	Community detection in weighted networks using probabilistic generative model.	0
108	LUEM : Local User Engagement Maximization in Networks. 2022, 255, 109788	0
107	HoSIM: Higher-order Structural Importance based method for multiple local community detection. 2022, 256, 109853	0
106	Properties and Performance of the ABCDe Random Graph Model with Community Structure. 2022, 30, 100348	3
105	Adaptive Seed Expansion Based on 'Composite Similarity for 'Community Detection in 'Attributed Networks. 2022, 214-227	0
104	Identifying Influential Nodes for Smart Enterprises Using Community Structure With Integrated Feature Ranking. 2022, 1-10	0

- 103 An Attention-Based Multiobjective Optimization Evolutionary Algorithm for Community Detection in Attributed Networks. **2022**, 271-285 ○
- 102 Federated Clique Percolation for Overlapping Community Detection on Attributed Networks. **2022**, 252-266 ○
- 101 Graph Regularized Nonnegative Matrix Factorization for Community Detection in Attributed Networks. **2022**, 1-14 8
- 100 Federated Multi-label Propagation Based on Neighbor Node Influence for Community Detection on Attributed Networks. **2022**, 484-498 ○
- 99 Attributed Network Embedding Based on Attributed-Subgraph-Based Random Walk for Community Detection. **2022**, 199-213 ○
- 98 Kernels on Attributed Networks for Community Detection. **2022**, ○
- 97 S2NMF: Information Self-Enhancement Self-Supervised Nonnegative Matrix Factorization for Recommendation. **2022**, 2022, 1-10 ○
- 96 Ranking influential nodes in complex networks with community structure. **2022**, 17, e0273610 ○
- 95 Community detection in complex networks using stacked autoencoders and crow search algorithm. ○
- 94 A multi-purposed unsupervised framework for comparing embeddings of undirected and directed graphs. 1-24 ○
- 93 Assessment of Discrete BAT-Modified (DBAT-M) Optimization Algorithm for Community Detection in Complex Network. 1
- 92 Graph neural network inspired algorithm for unsupervised network community detection. **2022**, 7, ○
- 91 On network backbone extraction for modeling online collective behavior. **2022**, 17, e0274218 ○
- 90 On The Reduction of Instability of Label Propagation Algorithm. ○
- 89 Community detection based on competitive walking network embedding method. **2022**, 2022, 093402 ○
- 88 Mitigating virus spread through dynamic control of community-based social interactions for infection rate and cost. **2022**, 12, 1
- 87 A subgraphs-density based overlapping community detection algorithm for large-scale complex networks. ○
- 86 A multi-objective evolutionary algorithm based on mixed encoding for community detection. ○

- 85 Community Detection on Proximity Networks. **2023**, 33-47 ○
- 84 An attentional-walk-based autoencoder for community detection. ○
- 83 Community detection in networks by dynamical optimal transport formulation. **2022**, 12, ○
- 82 A Novel Complex Network Community Clustering Method for Fault Diagnosis. ○
- 81 Community detection in error-prone environments based on particle cooperation and competition with distance dynamics. **2022**, 607, 128178 ○
- 80 Benchmarking and Graph Generation. **2022**, 1-8 ○
- 79 Spatial regionalization based on optimal information compression. **2022**, 5, ○
- 78 Application of a maximal-clique based community detection algorithm to gut microbiome data reveals driver microbes during influenza A virus infection. 13, ○
- 77 MERP: Motifs enhanced network embedding based on edge reweighting preprocessing. 10, ○
- 76 Multi-objective Community Detection Algorithm based on the Adaptive Mutation Operator. **2022**, ○
- 75 Graph Embedding Method Based on Biased Walking for Link Prediction. **2022**, 10, 3778 ○
- 74 Direction-Optimizing Label Propagation Framework for Structure Detection in Graphs: Design, Implementation, and Experimental Analysis. ○
- 73 Uncovering the Local Hidden Community Structure in Social Networks. ○
- 72 FIP: A fast overlapping community-based influence maximization algorithm using probability coefficient of global diffusion in social networks. **2023**, 213, 118869 1
- 71 Detecting Community Structure in Financial Markets Using the Bat Optimization Algorithm. **2022**, 13, 1-21 1
- 70 Community detection based on Beetle Swarm Optimization. **2022**, ○
- 69 Random graph generator for leader and community detection in networks. ○
- 68 Cluster-preserving sampling algorithm for large-scale graphs. **2023**, 66, ○

- 67 Community detection algorithms for recommendation systems: techniques and metrics. ○
- 66 Network community detection and clustering with random walks. **2022**, 4, ○
- 65 Overlapping community detection with adaptive density peaks clustering and iterative partition strategy. **2023**, 213, 119213 ○
- 64 A Community Detection Algorithm Fusing Node Similarity and Label Propagation. **2022**, 94-107 ○
- 63 Genetic Algorithm with a Novel Leiden-based Mutation Operator for Community Detection. **2022**, 252-265 ○
- 62 On the stability of citation networks. **2023**, 610, 128399 ○
- 61 Cluster Affiliation Model for Local Community Detection. **2022**, ○
- 60 Modularity of the ABCD random graph model with community structure. **2022**, 10, 3
- 59 ShareTrace: Contact Tracing with the Actor Model. **2022**, ○
- 58 A variance-aware multiobjective Louvain-like method for community detection in multiplex networks. **2022**, 10, ○
- 57 Detecting hierarchical organization of pervasive communities by modular decomposition of Markov chain. **2022**, 12, ○
- 56 Clinical subtyping using community detection: Limited utility?. ○
- 55 Towards explainable community finding. **2022**, 7, ○
- 54 Community structure detection in networks based on Tabu search. 1-11 ○
- 53 Toward random walk-based clustering of variable-order networks. 1-19 ○
- 52 High-Speed Railway Access Pattern and Spatial Overlap Characteristics of the Yellow River Basin Urban Agglomeration. **2023**, 12, 3 ○
- 51 IMDCS:influence maximization with type-diversity by leveraging community structure. ○
- 50 Density and node closeness based clustering method for community detection. **2022**, 1-14 ○

- 49 Modularity, balance, and frustration in student social networks: The role of negative relationships in communities. **2022**, 17, e0278647 ○
- 48 A spectral method to detect community structure based on Coulomb matrix. **2023**, 13, ○
- 47 An improved label propagation algorithm based on community core node and label importance for community detection in sparse network. ○
- 46 Overlapping Community Discovery Algorithm Based on Three-Level Neighbor Node Influence. **2023**, 335-344 ○
- 45 Community-Aware Centrality Measures Under the Independent Cascade Model. **2023**, 588-599 ○
- 44 Comparison of deep and shallow graph representation learning algorithms for detecting modules in molecular networks. **2022**, ○
- 43 Modularity of the ABCD Random Graph Model with Community Structure. **2023**, 3-15 ○
- 42 A memetic algorithm for finding multiple subgraphs that optimally cover an input network. **2023**, 18, e0280506 ○
- 41 Local community detection based on influence maximization in dynamic networks. ○
- 40 Outliers in the ABCD Random Graph Model with Community Structure (ABCD+o). **2023**, 163-174 ○
- 39 Automatic Detection of Multilevel Communities: Scalable, Selective and Resolution-Limit-Free. **2023**, 13, 1774 1
- 38 Discovering Entities Similarities in Biological Networks Using a Hybrid Immune Algorithm. **2023**, 10, 18 ○
- 37 Embedding-aided network dismantling. **2023**, 5, ○
- 36 A Four-Stage Algorithm for Community Detection Based on Label Propagation and Game Theory in Social Networks. **2023**, 4, 255-269 ○
- 35 Multipolar social systems: Measuring polarization beyond dichotomous contexts. **2023**, 169, 113244 1
- 34 Network Refinement: Denoising complex networks for better community detection. **2023**, 617, 128681 ○
- 33 GenCAT: Generating attributed graphs with controlled relationships between classes, attributes, and topology. **2023**, 115, 102195 ○
- 32 Extending bootstrap AMG for clustering of attributed graphs. **2023**, 447, 127904 ○

- 31 Deep embedded clustering with distribution consistency preservation for attributed networks. **2023**, 139, 109469 ○
- 30 Statistical power, accuracy, reproducibility and robustness of a graph clusterability test. ○
- 29 Effective and efficient core computation in signed networks. **2023**, 634, 290-307 ○
- 28 Algorithms for Large-Scale Network Analysis and the NetworKit Toolkit. **2022**, 3-20 ○
- 27 A Self-adaptive Two-Stage Local Expansion Algorithm for Community Detection on Complex Networks. **2022**, 215-230 ○
- 26 Effective Resistance Based Weight Thresholding for Community Detection. **2022**, 14-23 ○
- 25 Detecting communities in complex networks using triangles and modularity density. **2023**, 613, 128504 ○
- 24 A local community detection algorithm based on potential community exploration. 11, ○
- 23 A hyperbolic approach for learning communities on graphs. **2023**, 37, 1090-1124 ○
- 22 Influential nodes identification in complex networks: a comprehensive literature review. **2023**, 12, 1 ○
- 21 Multiplex reconstruction with partial information. **2023**, 107, ○
- 20 Community Detection in Large and Complex Networks Using Semi-Local Similarity Measure. **2023**, 81-98 ○
- 19 Photo Semantic Understanding and Retargeting by a Noise-Robust Regularized Topic Model. **2023**, 16, 3495-3505 ○
- 18 A Multiagent Reinforcement Learning algorithm to solve the Community Detection Problem. **2022**, 19, 87-100 ○
- 17 A Generalized Modularity for Computing Community Structure in Fully Signed Networks. **2023**, 2023, 1-20 ○
- 16 Detecting Communities in Complex Networks Using an Adaptive Genetic Algorithm and Node Similarity-Based Encoding. **2023**, 2023, 1-22 ○
- 15 Multi-source localization on complex networks based on community detection. **2023**, 141, 60001 ○
- 14 Graph attention network via node similarity for link prediction. **2023**, 96, ○

- 13 Optimal discrete resource allocation on metapopulation networks for suppressing spatial spread of epidemic. **2023**, 169, 113293
- 12 A Constrained Louvain Algorithm with a Novel Modularity. **2023**, 13, 4045
- 11 Identification of Key Actor Nodes: A Centrality Measure Ranking Aggregation Approach. **2022**,
- 10 Visit Planner: A Personalized Mobile Trip Design Application based on a Hybrid Recommendation Model.
- 9 DC-GAN with Feature Attention for Single Image Dehazing.
- 8 Community Structure in Transcriptional Regulatory Networks of Yeast Species. **2023**, 38-49
- 7 Random search immune algorithm for community detection.
- 6 Overlapping communities detection through weighted graph community games. **2023**, 18, e0283857
- 5 An autoencoder considering multi-order and structural-role similarity for community detection in attributed networks.
- 4 Comparative study between quality measurement functions of a community distribution in a complex network. **2023**, 220, 632-638
- 3 Multi-aspect Diffusion Network Inference. **2023**,
- 2 Overlapping community detection algorithm based on similarity of node relationship.
- 1 LSS: A locality-based structure system to evaluate the spreader's importance in social complex networks. **2023**, 228, 120326