Chan Keith

List of Publications by Year
in descending order

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125 papers	2,466 citations	186265 28 h-index	243625 44 g-index
127 all docs	127 docs citations	127 times ranked	2211 citing authors

#	Article	IF	Citations
1	Attribute Clustering for Grouping, Selection, and Classification of Gene Expression Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2005, 2, 83-101.	3.0	159
2	Predicting Protein-Protein Interactions from Primary Protein Sequences Using a Novel Multi-Scale Local Feature Representation Scheme and the Random Forest. PLoS ONE, 2015, 10, e0125811.	2.5	136
3	ILNCSIM: improved lncRNA functional similarity calculation model. Oncotarget, 2016, 7, 25902-25914.	1.8	122
4	FMLNCSIM: fuzzy measure-based lncRNA functional similarity calculation model. Oncotarget, 2016, 7, 45948-45958.	1.8	103
5	Pair programming productivity: Noviceâ€“novice vs. expertâ€“expert. International Journal of Human Computer Studies, 2006, 64, 915-925.	5.6	89
6	Costs and benefits of ISO 9000 series: a practical study. International Journal of Quality and Reliability Management, 1999, 16, 675-691.	2.0	82
7	Fuzzy Clustering in a Complex Network Based on Content Relevance and Link Structures. IEEE Transactions on Fuzzy Systems, 2016, 24, 456-470.	9.8	70
8	Discovering public sentiment in social media for predicting stock movement of publicly listed companies. Information Systems, 2017, 69, 81-92.	3.6	70
9	Public Sentiment Analysis in Twitter Data for Prediction of a Company's Stock Price Movements. , 2014, , .		63
10	Tensor Distance Based Multilinear Locality-Preserved Maximum Information Embedding. IEEE Transactions on Neural Networks, 2010, 21, 1848-1854.	4.2	60
11	Mining changes in association rules: a fuzzy approach. Fuzzy Sets and Systems, 2005, 149, 87-104.	2.7	54
12	An improved sequence-based prediction protocol for protein-protein interactions using amino acids substitution matrix and rotation forest ensemble classifiers. Neurocomputing, 2017, 228, 277-282.	5.9	54
13	Efficient Range Query Processing in Peer-to-Peer Systems. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 78-91.	5.7	52
14	Composition of Resource-Service Chain for Cloud Manufacturing. IEEE Transactions on Industrial Informatics, 2016, 12, 211-219.	11.3	52
15	APACS: a system for the automatic analysis and classification of conceptual patterns. Computational Intelligence, 1990, 6, 119-131.	3.2	50
16	Information fusion based smart home control system and its application. IEEE Transactions on Consumer Electronics, 2008, 54, 1157-1165.	3.6	49
17	Utilizing Both Topological and Attribute Information for Protein Complex Identification in PPI Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 780-792.	3.0	44
18	Handling the assembly line balancing problem in the clothing industry using a genetic algorithm. International Journal of Clothing Science and Technology, 1998, 10, 21-37.	1.1	42

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19	A new fuzzy approach to improve fashion product development. Computers in Industry, 2006, 57, 82-92.	9.9	42
20	Large-scale prediction of drug-target interactions from deep representations. , 2016, , .		42
21	An effective algorithm for mining interesting quantitative association rules. , 1997, , .		39
22	Application of artificial neural networks to the prediction of sewing performance of fabrics. International Journal of Clothing Science and Technology, 2007, 19, 291-318.	1.1	39
23	Contextual Correlation Preserving Multiview Featured Graph Clustering. IEEE Transactions on Cybernetics, 2020, 50, 4318-4331.	9.5	37
24	The Effect of Pairs in Program Design Tasks. IEEE Transactions on Software Engineering, 2008, 34, 197-211.	5.6	33
25	Staying-alive path planning with energy optimization for mobile robots. Expert Systems With Applications, 2012, 39, 3559-3571.	7.6	33
26	Extracting Coevolutionary Features from Protein Sequences for Predicting Protein-Protein Interactions. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 155-166.	3.0	33
27	Rescuing Troubled Software Projects by Team Transformation: A Case Study With an ERP Project. IEEE Transactions on Engineering Management, 2008, 55, 171-184.	3.5	32
28	EvoArch: An evolutionary algorithm for architectural layout design. CAD Computer Aided Design, 2009, 41, 649-667.	2.7	32
29	MISAGA: An Algorithm for Mining Interesting Subgraphs in Attributed Graphs. IEEE Transactions on Cybernetics, 2018, 48, 1369-1382.	9.5	32
30	Discovering Fuzzy Structural Patterns for Graph Analytics. IEEE Transactions on Fuzzy Systems, 2018, 26, 2785-2796.	9.8	31
31	A High-Throughput MAC Protocol for Wireless Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2008, 7, 135-145.	9.2	29
32	Developing a competitive edge in electronic markets via institutional and social based quality signaling mechanisms. Information and Management, 2014, 51, 532-540.	6.5	28
33	Fuzzy Feature Extraction for Multichannel EEG Classification. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 267-279.	3.8	25
34	A Fuzzy Logic Approach for Opinion Mining on Large Scale Twitter Data. , 2014, , .		24
35	Discovering Variable-Length Patterns in Protein Sequences for Protein-Protein Interaction Prediction. IEEE Transactions on Nanobioscience, 2015, 14, 409-416.	3.3	24
36	A density-based clustering approach for identifying overlapping protein complexes with functional preferences. BMC Bioinformatics, 2015, 16, 174.	2.6	24

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37	Evolutionary Graph Clustering for Protein Complex Identification. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 892-904.	3.0	23
38	Semi-supervised manifold ordinal regression for image ranking. , 2011, , .		22
39	Hybrid Manifold Embedding. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2295-2302.	11.3	21
40	Learning Representation of Molecules in Association Network for Predicting Intermolecular Associations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2546-2554.	3.0	20
41	Learning Latent Factors for Community Identification and Summarization. IEEE Access, 2018, 6, 30137-30148.	4.2	17
42	Incremental Fuzzy Mining of Gene Expression Data for Gene Function Prediction. IEEE Transactions on Biomedical Engineering, 2011, 58, 1246-1252.	4.2	16
43	Evolutionary community detection in social networks. , 2014, , .		16
44	Corporate Communication Network and Stock Price Movements: Insights From Data Mining. IEEE Transactions on Computational Social Systems, 2018, 5, 391-402.	4.4	16
45	Dimensionality reduction for heterogeneous dataset in rushes editing. Pattern Recognition, 2009, 42, 229-242.	8.1	15
46	What Strikes the Strings of Your Heart?â€“Multi-Label Dimensionality Reduction for Music Emotion Analysis via Brain Imaging. IEEE Transactions on Autonomous Mental Development, 2015, 7, 176-188.	1.6	15
47	Inferring Gene Regulatory Networks From Expression Data by Discovering Fuzzy Dependency Relationships. IEEE Transactions on Fuzzy Systems, 2008, 16, 455-465.	9.8	14
48	Tensor distance based multilinear globality preserving embedding: A unified tensor based dimensionality reduction framework for image and video classification. Expert Systems With Applications, 2012, 39, 10500-10511.	7.6	14
49	A Novel Approach for Discovering Overlapping Clusters in Gene Expression Data. IEEE Transactions on Biomedical Engineering, 2009, 56, 1803-1809.	4.2	13
50	EvoMD: An Algorithm for Evolutionary Molecular Design. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 987-1003.	3.0	13
51	Trusted Virtual Infrastructure Bootstrapping for On Demand Services. , 2012, , .		13
52	Efficiently predicting large-scale protein-protein interactions using MapReduce. Computational Biology and Chemistry, 2017, 69, 202-206.	2.3	13
53	AN EFFECTIVE DATA MINING TECHNIQUE FOR RECONSTRUCTING GENE REGULATORY NETWORKS FROM TIME SERIES EXPRESSION DATA. Journal of Bioinformatics and Computational Biology, 2007, 05, 651-668.	0.8	12
54	UPSEC: An Algorithm for Classifying Unaligned Protein Sequences into Functional Families. Journal of Computational Biology, 2008, 15, 431-443.	1.6	12

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55	Discovering Functional Interdependence Relationship in PPI Networks for Protein Complex Identification. IEEE Transactions on Biomedical Engineering, 2012, 59, 899-908.	4.2	12
56	A Feature Extraction Method for Multivariate Time Series Classification Using Temporal Patterns. Lecture Notes in Computer Science, 2015, , 409-421.	1.3	12
57	A Road Map for Implementing eXtreme Programming. Lecture Notes in Computer Science, 2006, , 474-481.	1.3	11
58	Tensor-based locally maximum margin classifier for image and video classification. Computer Vision and Image Understanding, 2011, 115, 300-309.	4.7	11
59	CLUSTERING AND RE-CLUSTERING FOR PATTERN DISCOVERY IN GENE EXPRESSION DATA. Journal of Bioinformatics and Computational Biology, 2005, 03, 281-301.	0.8	9
60	Distributed Sequence Alignment Applications for the Public Computing Architecture. IEEE Transactions on Nanobioscience, 2008, 7, 35-43.	3.3	9
61	A Model-Based Multivariate Time Series Clustering Algorithm. Lecture Notes in Computer Science, 2014, , 805-817.	1.3	9
62	Rushes video summarization using audio-visual information and sequence alignment. , 2008, , .		9
63	Integrating Process and Project Management for Multi-Site Software Development. Annals of Software Engineering, 2002, 14, 115-143.	0.5	8
64	Capability Maturity Model and SAP. International Journal of Enterprise Information Systems, 2005, 1, 69-95.	1.0	8
65	Measuring Boundedness for Protein Complex Identification in PPI Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 967-979.	3.0	8
66	Discovering High-Order Patterns of Gene Expression Levels. Journal of Computational Biology, 2008, 15, 625-637.	1.6	7
67	Pattern discovery for large mixed-mode database. , 2010, , .		7
68	Nonlinear dimensionality reduction with hybrid distance for trajectory representation of dynamic texture. Signal Processing, 2010, 90, 2375-2395.	3.7	6
69	Topology-Aware Energy Efficient Task Assignment for Collaborative In-Network Processing in Distributed Sensor Systems. International Federation for Information Processing, 2008, , 201-211.	0.4	6
70	Automating the knowledge acquisition process in the construction of medical expert systems. Artificial Intelligence in Medicine, 1990, 2, 267-292.	6.5	5
71	Hardware/software optimization for array & pointer boundary checking against buffer overflow attacks. Journal of Parallel and Distributed Computing, 2006, 66, 1129-1136.	4.1	5
72	An Iterative Data Mining Approach for Mining Overlapping Coexpression Patterns in Noisy Gene Expression Data. IEEE Transactions on Nanobioscience, 2009, 8, 252-258.	3.3	5

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73	A disk based stream oriented approach for storing big data. , 2013, , .		5
74	Clustering in Networks with Multi-Modality Attributes. , 2018, , .		5
75	<title>Evolutionary approach for discovering changing patterns in historical data</title>. , 2002, 4730, 398.		4
76	Topology Aware Task Allocation and Scheduling for Real-Time Data Fusion Applications in Networked Embedded Sensor Systems. , 2008, , .		4
77	A Unified Humanâ€“Computer Interaction Requirements Analysis Framework for Complex Socio-technical Systems. International Journal of Human-Computer Interaction, 2009, 26, 1-21.	4.8	4
78	Supervised manifold learning for image and video classification. , 2010, , .		4
79	Discovering Interesting Molecular Substructures for Molecular Classification. IEEE Transactions on Nanobioscience, 2010, 9, 77-89.	3.3	4
80	Unsupervised fuzzy pattern discovery in gene expression data. BMC Bioinformatics, 2011, 12, S5.	2.6	4
81	Neighborhood preserving ordinal regression. , 2012, , .		4
82	A fast big data collection system using MapReduce framework. , 2014, , .		4
83	Using Aligned Ontology Model to Convert Cultural Heritage Resources into Semantic Web. , 2014, , .		4
84	Correction to "Attribute Clustering for Grouping, Selection, and Classification of Gene Expression Data". IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2007, 4, 157-157.	3.0	3
85	A Graph Mining Algorithm for Classifying Chemical Compounds. , 2008, , .		3
86	Using Data Mining for Dynamic Level Design in Games. , 2008, , 628-637.		3
87	Multilinear Isometric Embedding for visual pattern analysis. , 2009, , .		3
88	An Optimal Algorithm towards Successive Location Privacy in Sensor Networks with Dynamic Programming. IEICE Transactions on Information and Systems, 2010, E93-D, 531-533.	0.7	3
89	An unsupervised attribute clustering algorithm for unsupervised feature selection. , 2015, , .		3
90	Pair Programming: Issues and Challenges. , 2010, , 143-163.		3

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91	Software tools for ISO 9000 certification. Managerial Auditing Journal, 1999, 14, 51-57.	3.0	2
92	Evolutionary Discovery of Fuzzy Concepts in Data. Brain and Mind, 2003, 4, 253-268.	0.6	2
93	A Proxy-based Mobile Group Membership Protocol for Large Scale and Highly Dynamic Groups. , 2006, , .		2
94	MAGMA: An Algorithm for Mining Multi-level Patterns in Genomic Data. , 2007, , .		2
95	Multiple video trajectories representation using double-layer isometric feature mapping. , 2008, , .		2
96	Analyzing web layout structures using graph mining. , 2008, , .		2
97	Towards Successive Privacy Protection in Sensor Networks. , 2008, , .		2
98	A GRAPH-BASED ALGORITHM FOR MINING MULTI-LEVEL PATTERNS IN GENOMIC DATA. Journal of Bioinformatics and Computational Biology, 2010, 08, 789-807.	0.8	2
99	Discovering Drug-Protein Interactions Based on their Fingerprints. , 2011, , .		2
100	An effective approach to identify gene-gene interactions for complex quantitative traits using generalized fuzzy accuracy. , 2016, , .		2
101	A novel secure multicast scheme in mobile Internet. Central South University, 2005, 12, 720-725.	0.5	1
102	A protocol for partitionable group membership service in mobile Internet. Wireless Communications and Mobile Computing, 2005, 5, 773-792.	1.2	1
103	Programming Task Demands. , 2006, , .		1
104	A Fuzzy Data Mining Technique for the Reconstruction of Gene Regulatory Networks from Time Series Expression Data. , 2006, , .		1
105	An Energy-Efficient Framework for Multirate Query in Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	1
106	A Fault-Tolerant Group Communication Protocol in Large Scale and Highly Dynamic Mobile Next-Generation Networks. IEEE Transactions on Computers, 2007, 56, 80-94.	3.4	1
107	Discovering Interesting Motif-Sets for Multi-Class Protein Sequence Classification. Journal of Computational Biology, 2010, 17, 733-743.	1.6	1
108	Learning Latent Factors in Linked Multi-modality Data. Lecture Notes in Computer Science, 2018, , 214-224.	1.3	1

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109	Software Process Fusion: Uniting Pair Programming and Solo Programming Processes. Lecture Notes in Computer Science, 2006, , 115-123.	1.3	1
110	<title>Effect of interferometric noise in fiber Bragg grating sensors using tunable laser sources</title>. , 1998, 3330, 272.		0
111	A novel group communication protocol using the RingNet hierarchy in mobile Internet. International Journal of Parallel, Emergent and Distributed Systems, 2005, 20, 253-280.	1.0	0
112	A self-organizable topology maintenance protocol for mobile group communications in mobile next-generation networks. Computer Communications, 2006, 29, 1730-1743.	5.1	0
113	An Effective Data Mining Technique for Classifying Unaligned Protein Sequences into Functional Families. , 2006, , .		0
114	Guest Editorial: Introduction to the Special Issue on Machine Learning for Microarray Bioinformatics. Journal of Signal Processing Systems, 2008, 50, 263-265.	2.1	0
115	Software Process Fusion: Exploring process relationships. , 2008, , .		0
116	Dimensionality Reduction for Descriptor Generation in Rushes Editing. , 2008, , .		0
117	An Effective Data Mining Technique for the Multi-Class Protein Sequence Classification. , 2008, , .		0
118	Mining Fuzzy Association Patterns in Gene Expression Data for Gene Function Prediction. , 2008, , .		0
119	An effective evolutionary algorithm for discrete-valued data clustering. , 2008, , .		0
120	Bidirectional visible neighborhood preserving embedding. , 2009, , .		0
121	Special issue on selected papers from IEEE DMF 2008. Knowledge and Information Systems, 2010, 24, 339-340.	3.2	0
122	Adapting CakeDB to Integrate High-Pressure Big Data Streams with Low-Pressure Systems. , 2013, , .		0
123	A Paralleled Big Data Algorithm with MapReduce Framework for Mining Twitter Data. , 2014, , .		0
124	A new information-theoretic approach to detect gene-gene interactions in case-control studies. , 2015, , .		0
125	Mining Gene Expression Patterns for the Discovery of Overlapping Clusters. , 2008, , 117-128.		0