

# Keith C C Chan

## List of Publications by Year in Descending Order

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

63

papers

1,250

citations

20

h-index

34

g-index

73

ext. papers

1,468

ext. citations

3.8

avg, IF

4.44

L-index

#	Paper	IF	Citations
63	Discovery of Spatio-Temporal Patterns in Multivariate Spatial Time Series. <i>ACM/IMS Transactions on Data Science</i> , <b>2020</b> , 1, 1-22	1.2	0
62	Fuzzy Feature Extraction for Multichannel EEG Classification. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2018</b> , 10, 267-279	3	18
61	Measuring Boundedness for Protein Complex Identification in PPI Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2018</b> ,	3	6
60	A density-based clustering approach for identifying overlapping protein complexes with functional preferences. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 174	3.6	21
59	Predicting protein-protein interactions from primary protein sequences using a novel multi-scale local feature representation scheme and the random forest. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125811	3.7	96
58	A Feature Extraction Method for Multivariate Time Series Classification Using Temporal Patterns. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 409-421	0.9	8
57	A Model-Based Multivariate Time Series Clustering Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 805-817	0.9	5
56	Staying-alive path planning with energy optimization for mobile robots. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 3559-3571	7.8	25
55	Discovering functional interdependence relationship in PPI networks for protein complex identification. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 899-908	5	10
54	Neighborhood preserving ordinal regression <b>2012</b> ,		2
53	Incremental fuzzy mining of gene expression data for gene function prediction. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 1246-52	5	11
52	Unsupervised fuzzy pattern discovery in gene expression data. <i>BMC Bioinformatics</i> , <b>2011</b> , 12 Suppl 5, S5	3.6	3
51	EvoMD: an algorithm for evolutionary molecular design. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2011</b> , 8, 987-1003	3	5
50	Discovering interesting motif-sets for multi-class protein sequence classification. <i>Journal of Computational Biology</i> , <b>2010</b> , 17, 733-43	1.7	1
49	A graph-based algorithm for mining multi-level patterns in genomic data. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2010</b> , 8, 789-807	1	1
48	Discovering interesting molecular substructures for molecular classification. <i>IEEE Transactions on Nanobioscience</i> , <b>2010</b> , 9, 77-89	3.4	2
47	Tensor distance based multilinear locality-preserved maximum information embedding. <i>IEEE Transactions on Neural Networks</i> , <b>2010</b> , 21, 1848-54		53

46	Efficient Range Query Processing in Peer-to-Peer Systems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2009</b> , 21, 78-91	4.2	35
45	A Unified Human-Computer Interaction Requirements Analysis Framework for Complex Socio-technical Systems. <i>International Journal of Human-Computer Interaction</i> , <b>2009</b> , 26, 1-21	3.6	1
44	A novel approach for discovering overlapping clusters in gene expression data. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1803-9	5	12
43	Dimensionality reduction for heterogeneous dataset in rushes editing. <i>Pattern Recognition</i> , <b>2009</b> , 42, 229-242	7.7	13
42	An iterative data mining approach for mining overlapping coexpression patterns in noisy gene expression data. <i>IEEE Transactions on Nanobioscience</i> , <b>2009</b> , 8, 252-8	3.4	3
41	. <i>IEEE Transactions on Engineering Management</i> , <b>2008</b> , 55, 171-184	2.6	25
40	Information fusion based smart home control system and its application. <i>IEEE Transactions on Consumer Electronics</i> , <b>2008</b> , 54, 1157-1165	4.8	37
39	The Effect of Pairs in Program Design Tasks. <i>IEEE Transactions on Software Engineering</i> , <b>2008</b> , 34, 197-213	3.5	20
38	A Graph Mining Algorithm for Classifying Chemical Compounds <b>2008</b> ,		3
37	Using Data Mining for Dynamic Level Design in Games <b>2008</b> , 628-637		1
36	Distributed sequence alignment applications for the public computing architecture. <i>IEEE Transactions on Nanobioscience</i> , <b>2008</b> , 7, 35-43	3.4	8
35	Multiple video trajectories representation using double-layer isometric feature mapping <b>2008</b> ,		1
34	Inferring Gene Regulatory Networks From Expression Data by Discovering Fuzzy Dependency Relationships. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2008</b> , 16, 455-465	8.3	10
33	Topology Aware Task Allocation and Scheduling for Real-Time Data Fusion Applications in Networked Embedded Sensor Systems <b>2008</b> ,		3
32	Analyzing web layout structures using graph mining <b>2008</b> ,		1
31	A High-Throughput MAC Protocol for Wireless Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 135-145	9.6	18
30	UPSEC: an algorithm for classifying unaligned protein sequences into functional families. <i>Journal of Computational Biology</i> , <b>2008</b> , 15, 431-43	1.7	10
29	Discovering high-order patterns of gene expression levels. <i>Journal of Computational Biology</i> , <b>2008</b> , 15, 625-37	1.7	5

28	Mining Gene Expression Patterns for the Discovery of Overlapping Clusters <b>2008</b> , 117-128		
27	An Approach for Determining Evolutionary Distance in Network-Based Phylogenetic Analysis <b>2008</b> , 38-49		1
26	TopEVM: Using Co-occurrence and Topology Patterns of Enzymes in Metabolic Networks to Construct Phylogenetic Trees. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 225-236	0.9	3
25	An effective data mining technique for reconstructing gene regulatory networks from time series expression data. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2007</b> , 5, 651-68	1	11
24	An Energy-Efficient Framework for Multirate Query in Wireless Sensor Networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2007</b> , 2007, 1	3.2	1
23	A new fuzzy approach to improve fashion product development. <i>Computers in Industry</i> , <b>2006</b> , 57, 82-92	11.6	36
22	A Road Map for Implementing eXtreme Programming. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 474-481	0.9	6
21	An evolutionary clustering algorithm for gene expression microarray data analysis. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2006</b> , 10, 296-314	15.6	73
20	A fuzzy approach to partitioning continuous attributes for classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2006</b> , 18, 715-719	4.2	42
19	Software Process Fusion: Uniting Pair Programming and Solo Programming Processes. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 115-123	0.9	
18	Attribute clustering for grouping, selection, and classification of gene expression data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2005</b> , 2, 83-101	3	121
17	Mining changes in association rules: a fuzzy approach. <i>Fuzzy Sets and Systems</i> , <b>2005</b> , 149, 87-104	3.7	40
16	A novel secure multicast scheme in mobile Internet. <i>Central South University</i> , <b>2005</b> , 12, 720-725		1
15	A protocol for partitionable group membership service in mobile Internet. <i>Wireless Communications and Mobile Computing</i> , <b>2005</b> , 5, 773-792	1.9	0
14	Clustering and re-clustering for pattern discovery in gene expression data. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2005</b> , 3, 281-301	1	5
13	Evolutionary Discovery of Fuzzy Concepts in Data. <i>Brain and Mind</i> , <b>2003</b> , 4, 253-268		2
12	Mining fuzzy association rules in a bank-account database. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2003</b> , 11, 238-248	8.3	49
11	When Does a Pair Outperform Two Individuals?. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 225-233	0.9	18

10	. <i>IEEE Transactions on Engineering Management</i> , <b>2002</b> , 49, 173-180	2.6	21
9	Integrating Process and Project Management for Multi-Site Software Development. <i>Annals of Software Engineering</i> , <b>2002</b> , 14, 115-143		7
8	Evolutionary approach for discovering changing patterns in historical data <b>2002</b> , 4730, 398		3
7	Mining Fuzzy Association Rules in a Database Containing Relational and Transactional Data. <i>Studies in Fuzziness and Soft Computing</i> , <b>2001</b> , 95-114	0.7	6
6	Effect of interferometric noise in fiber Bragg grating sensors using tunable laser sources <b>1998</b> , 3330, 272		
5	Radar tracking for air surveillance in a stressful environment using a fuzzy-gain filter. <i>IEEE Transactions on Fuzzy Systems</i> , <b>1997</b> , 5, 80-89	8.3	26
4	Mining fuzzy association rules <b>1997</b> ,		84
3	Generating fuzzy rules for target tracking using a steady-state genetic algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , <b>1997</b> , 1, 189-200	15.6	21
2	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>1995</b> , 17, 641-651	13.3	156
1	APACS: a system for the automatic analysis and classification of conceptual patterns. <i>Computational Intelligence</i> , <b>1990</b> , 6, 119-131	2.5	42