Eamonn Keogh

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

165	14,407	57	119
papers	citations	h-index	g-index
174	17,892 ext. citations	3.3	6.83
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
165	Introducing the contrast profile: a novel time series primitive that allows real world classification. Data Mining and Knowledge Discovery, 2022, 36, 877-915	5.6	
164	Qute: Query by Text Search for Time Series Data. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 412-427	0.4	
163	Matrix Profile IX: Admissible Time Series Motif Discovery With Missing Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 33, 2616-2626	4.2	3
162	Time series motifs discovery under DTW allows more robust discovery of conserved structure. <i>Data Mining and Knowledge Discovery</i> , 2021 , 35, 863-910	5.6	3
161	Matrix profile goes MAD: variable-length motif and discord discovery in data series. <i>Data Mining and Knowledge Discovery</i> , 2020 , 34, 1022-1071	5.6	19
160	An ultra-fast time series distance measure to allow data mining in more complex real-world deployments. <i>Data Mining and Knowledge Discovery</i> , 2020 , 34, 1104-1135	5.6	4
159	The Swiss army knife of time series data mining: ten useful things you can do with the matrix profile and ten lines of code. <i>Data Mining and Knowledge Discovery</i> , 2020 , 34, 949-979	5.6	6
158	Features or Shape? Tackling the False Dichotomy of Time Series Classification 2020, 442-450		5
157	Introducing time series snippets: a new primitive for summarizing long time series. <i>Data Mining and Knowledge Discovery</i> , 2020 , 34, 1713-1743	5.6	2
156	Matrix Profile XXII: Exact Discovery of Time Series Motifs Under DTW 2020,		3
155	MERLIN: Parameter-Free Discovery of Arbitrary Length Anomalies in Massive Time Series Archives 2020 ,		6
154	Natura: Towards Conversational Analytics for Comparing and Contrasting Time Series 2020,		2
153	Fitbit for Chickens? 2020 ,		3
152	Putting the Human in the Time Series Analytics Loop 2019 ,		5
151	Super-Efficient Cross-Correlation (SEC-C): A Fast Matched Filtering Code Suitable for Desktop Computers. <i>Seismological Research Letters</i> , 2019 , 90, 322-334	3	15
150	Introducing time series chains: a new primitive for time series data mining. <i>Knowledge and Information Systems</i> , 2019 , 60, 1135-1161	2.4	9
149	Online Amnestic DTW to allow Real-Time Golden Batch Monitoring 2019 ,		3

148	Matrix Profile XVI: Efficient and Effective Labeling of Massive Time Series Archives 2019,		3
147	Matrix Profile XVIII: Time Series Mining in the Face of Fast Moving Streams using a Learned Approximate Matrix Profile 2019 ,		1
146	Matrix Profile XV: Exploiting Time Series Consensus Motifs to Find Structure in Time Series Sets 2019 ,		4
145	Matrix Profile XIX: Time Series Semantic Motifs: A New Primitive for Finding Higher-Level Structure in Time Series 2019 ,		3
144	The UCR time series archive. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019 , 6, 1293-1305	7	155
143	Matrix Profile XIV 2019 ,		12
142	Domain agnostic online semantic segmentation for multi-dimensional time series. <i>Data Mining and Knowledge Discovery</i> , 2019 , 33, 96-130	5.6	14
141	Optimizing dynamic time warping window width for time series data mining applications. <i>Data Mining and Knowledge Discovery</i> , 2018 , 32, 1074-1120	5.6	30
140	Exploiting a novel algorithm and GPUs to break the ten quadrillion pairwise comparisons barrier for time series motifs and joins. <i>Knowledge and Information Systems</i> , 2018 , 54, 203-236	2.4	15
139	Speeding up similarity search under dynamic time warping by pruning unpromising alignments. Data Mining and Knowledge Discovery, 2018 , 32, 988-1016	5.6	35
138	Time series joins, motifs, discords and shapelets: a unifying view that exploits the matrix profile. <i>Data Mining and Knowledge Discovery</i> , 2018 , 32, 83-123	5.6	49
137	Accelerating Time Series Searching with Large Uniform Scaling 2018 , 234-242		4
136	VALMOD 2018 ,		12
135	Matrix Profile XIII: Time Series Snippets: A New Primitive for Time Series Data Mining 2018,		12
134	Matrix Profile XI: SCRIMP++: Time Series Motif Discovery at Interactive Speeds 2018,		26
133	Matrix Profile XII: MPdist: A Novel Time Series Distance Measure to Allow Data Mining in More Challenging Scenarios 2018 ,		9
132	Matrix Profile X 2018 ,		36
131	Reliable early classification of time series based on discriminating the classes over time. <i>Data Mining and Knowledge Discovery</i> , 2017 , 31, 233-263	5.6	38

130	Generalizing DTW to the multi-dimensional case requires an adaptive approach. <i>Data Mining and Knowledge Discovery</i> , 2017 , 31, 1-31	5.6	83
129	Searching Time Series with Invariance to Large Amounts of Uniform Scaling 2017,		2
128	Matrix Profile V 2017 ,		17
127	The great time series classification bake off: a review and experimental evaluation of recent algorithmic advances. <i>Data Mining and Knowledge Discovery</i> , 2017 , 31, 606-660	5.6	468
126	Matrix Profile VII: Time Series Chains: A New Primitive for Time Series Data Mining (Best Student Paper Award) 2017 ,		11
125	Matrix Profile VIII: Domain Agnostic Online Semantic Segmentation at Superhuman Performance Levels 2017 ,		18
124	Matrix profile IV. Proceedings of the VLDB Endowment, 2017, 10, 1802-1812	3.1	12
123	2017,		8
122	Generating Synthetic Time Series to Augment Sparse Datasets 2017 ,		37
121	Semi-Supervision Dramatically Improves Time Series Clustering under Dynamic Time Warping 2016 ,		19
120	Classification of streaming time series under more realistic assumptions. <i>Data Mining and Knowledge Discovery</i> , 2016 , 30, 403-437	5.6	14
119	Accelerating the discovery of unsupervised-shapelets. <i>Data Mining and Knowledge Discovery</i> , 2016 , 30, 243-281	5.6	13
118	Faster and more accurate classification of time series by exploiting a novel dynamic time warping averaging algorithm. <i>Knowledge and Information Systems</i> , 2016 , 47, 1-26	2.4	69
117	Matrix Profile I: All Pairs Similarity Joins for Time Series: A Unifying View That Includes Motifs, Discords and Shapelets 2016 ,		156
116	Matrix Profile III: The Matrix Profile Allows Visualization of Salient Subsequences in Massive Time Series 2016 ,		11
115	Matrix Profile II: Exploiting a Novel Algorithm and GPUs to Break the One Hundred Million Barrier for Time Series Motifs and Joins 2016 ,		73
114	Prefix and Suffix Invariant Dynamic Time Warping 2016 ,		10
113	Irrevocable-choice algorithms for sampling from a stream. <i>Data Mining and Knowledge Discovery</i> , 2016 , 30, 998-1023	5.6	1

(2013-2015)

112	A general framework for never-ending learning from time series streams. <i>Data Mining and Knowledge Discovery</i> , 2015 , 29, 1622-1664	5.6	16	
111	Discovery of Meaningful Rules in Time Series 2015 ,		41	
110	Accelerating Dynamic Time Warping Clustering with a Novel Admissible Pruning Strategy 2015,		37	
109	Establishing the provenance of historical manuscripts with a novel distance measure. <i>Pattern Analysis and Applications</i> , 2015 , 18, 313-331	2.3	6	
108	Using the minimum description length to discover the intrinsic cardinality and dimensionality of time series. <i>Data Mining and Knowledge Discovery</i> , 2015 , 29, 358-399	5.6	11	
107	On the Non-Trivial Generalization of Dynamic Time Warping to the Multi-Dimensional Case 2015 ,		35	
106	Scalable Clustering of Time Series with U-Shapelets 2015 ,		19	
105	Flying Insect Classification with Inexpensive Sensors. <i>Journal of Insect Behavior</i> , 2014 , 27, 657-677	1.1	69	
104	Beyond one billion time series: indexing and mining very large time series collections with (i)SAX2+. <i>Knowledge and Information Systems</i> , 2014 , 39, 123-151	2.4	63	
103	Flying insect detection and classification with inexpensive sensors. <i>Journal of Visualized Experiments</i> , 2014 , e52111	1.6	18	
102	Rare time series motif discovery from unbounded streams. <i>Proceedings of the VLDB Endowment</i> , 2014 , 8, 149-160	3.1	28	
101	Dynamic Time Warping Averaging of Time Series Allows Faster and More Accurate Classification 2014 ,		95	
100	A Minimum Description Length Technique for Semi-Supervised Time Series Classification. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 171-192	0.4	9	
99	Monitoring and Mining Animal Sounds in Visual Space. <i>Journal of Insect Behavior</i> , 2013 , 26, 466-493	1.1	9	
98	DTW-D 2013 ,		47	
97	Towards never-ending learning from time series streams 2013,		13	
96	Addressing Big Data Time Series. ACM Transactions on Knowledge Discovery From Data, 2013, 7, 1-31	4	43	
95	Classification of Multi-dimensional Streaming Time Series by Weighting Each Classifier's Track Record 2013 ,		17	

94	Parameter-Free Audio Motif Discovery in Large Data Archives 2013 ,		5
93	Towards a minimum description length based stopping criterion for semi-supervised time series classification 2013 ,		14
92	Experimental comparison of representation methods and distance measures for time series data. <i>Data Mining and Knowledge Discovery</i> , 2013 , 26, 275-309	5.6	458
91	Fast Shapelets: A Scalable Algorithm for Discovering Time Series Shapelets 2013,		149
90	Time Series Classification under More Realistic Assumptions 2013,		57
89	Instruction set extensions for Dynamic Time Warping 2013,		3
88	Addressing Big Data Time Series. ACM Transactions on Knowledge Discovery From Data, 2013, 7, 1-31	4	57
87	Towards Discovering the Intrinsic Cardinality and Dimensionality of Time Series Using MDL. <i>Lecture Notes in Computer Science</i> , 2013 , 184-197	0.9	1
86	Mining historical manuscripts with local color patches. <i>Knowledge and Information Systems</i> , 2012 , 30, 637-665	2.4	1
85	Searching and Mining Trillions of Time Series Subsequences under Dynamic Time Warping. <i>KDD: Proceedings</i> , 2012 , 2012, 262-270	6.8	439
84	Clustering Time Series Using Unsupervised-Shapelets 2012 ,		78
83	Mining Massive Archives of Mice Sounds with Symbolized Representations 2012,		4
82	Image Mining of Historical Manuscripts to Establish Provenance 2012,		6
81	A disk-aware algorithm for time series motif discovery. <i>Data Mining and Knowledge Discovery</i> , 2011 , 22, 73-105	5.6	18
80	Time series shapelets: a novel technique that allows accurate, interpretable and fast classification. <i>Data Mining and Knowledge Discovery</i> , 2011 , 22, 149-182	5.6	164
79	An efficient and effective similarity measure to enable data mining of petroglyphs. <i>Data Mining and Knowledge Discovery</i> , 2011 , 23, 91-127	5.6	25
78	Logical-shapelets 2011 ,		141
77	Discovering the Intrinsic Cardinality and Dimensionality of Time Series Using MDL 2011 ,		28

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76	Polishing the Right Apple: Anytime Classification Also Benefits Data Streams with Constant Arrival Times 2010 ,		5
75	iSAX 2.0: Indexing and Mining One Billion Time Series 2010 ,		96
74	Online discovery and maintenance of time series motifs 2010,		60
73	Classification of Live Moths Combining Texture, Color and Shape Primitives 2010 ,		7
72	A brief survey on sequence classification. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2010 , 12, 40-48	4.6	306
71	Mother Fugger: Mining Historical Manuscripts with Local Color Patches 2010 ,		8
70	Accelerating Dynamic Time Warping Subsequence Search with GPUs and FPGAs 2010,		68
69	Data Editing Techniques to Allow the Application of Distance-Based Outlier Detection to Streams 2010 ,		13
68	Using CAPTCHAs to Index Cultural Artifacts. Lecture Notes in Computer Science, 2010, 245-257	0.9	3
67	Autocannibalistic and Anyspace Indexing Algorithms with Applications to Sensor Data Mining 2009,		3
66	Exact Discovery of Time Series Motifs 2009 , 2009, 473-484	0.8	215
65	Augmenting the generalized hough transform to enable the mining of petroglyphs 2009,		15
64	Mining Time Series Data 2009 , 1049-1077		25
63	Supporting exact indexing of arbitrarily rotated shapes and periodic time series under Euclidean and warping distance measures. <i>VLDB Journal</i> , 2009 , 18, 611-630	3.9	78
62	iSAX: disk-aware mining and indexing of massive time series datasets. <i>Data Mining and Knowledge Discovery</i> , 2009 , 19, 24-57	5.6	45
61	Finding Time Series Motifs in Disk-Resident Data 2009 ,		22
60	Time series shapelets 2009 ,		392
59	Compression-Based Data Mining 2009 , 278-285		3

58	Making Image Retrieval and Classification More Accurate Using Time Series and Learned Constraints 2009 , 145-170		13
57	Real-Time Classification of Streaming Sensor Data 2008,		16
56	. IEEE Transactions on Multimedia, 2008 , 10, 230-239	6.6	8
55	Querying and mining of time series data. <i>Proceedings of the VLDB Endowment</i> , 2008 , 1, 1542-1552	3.1	700
54	Streaming Time Series Summarization Using User-Defined Amnesic Functions. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2008 , 20, 992-1006	4.2	42
53	iSAX 2008 ,		174
52	Efficiently finding unusual shapes in large image databases. <i>Data Mining and Knowledge Discovery</i> , 2008 , 17, 343-376	5.6	11
51	Scaling and time warping in time series querying. VLDB Journal, 2008, 17, 899-921	3.9	100
50	Converting non-parametric distance-based classification to anytime algorithms. <i>Pattern Analysis and Applications</i> , 2008 , 11, 321-336	2.3	7
49	Disk aware discord discovery: finding unusual time series in terabyte sized datasets. <i>Knowledge and Information Systems</i> , 2008 , 17, 241-262	2.4	59
48	Compression-based data mining of sequential data. Data Mining and Knowledge Discovery, 2007, 14, 99-	-1 52.6	63
47	Experiencing SAX: a novel symbolic representation of time series. <i>Data Mining and Knowledge Discovery</i> , 2007 , 15, 107-144	5.6	870
46	Efficient query filtering for streaming time series with applications to semisupervised learning of time series classifiers. <i>Knowledge and Information Systems</i> , 2007 , 11, 313-344	2.4	6
45	Detecting time series motifs under uniform scaling 2007,		71
44	Locally Constrained Support Vector Clustering 2007,		8
43	WAT: Finding Top-K Discords in Time Series Database 2007 ,		43
42	Disk Aware Discord Discovery: Finding Unusual Time Series in Terabyte Sized Datasets 2007,		28
41	Finding unusual medical time-series subsequences: algorithms and applications. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006 , 10, 429-39		43

40	Semi-supervised time series classification 2006 ,		128
39	Anytime Classification Using the Nearest Neighbor Algorithm with Applications to Stream Mining. <i>IEEE International Conference on Data Mining</i> , 2006 ,		48
38	. IEEE International Conference on Data Mining, 2006 ,		17
37	Clustering Workflow Requirements Using Compression Dissimilarity Measure 2006,		3
36	SAXually Explicit Images: Finding Unusual Shapes. <i>IEEE International Conference on Data Mining</i> , 2006 ,		41
35	Fast time series classification using numerosity reduction 2006,		255
34	A Bit Level Representation for Time Series Data Mining with Shape Based Similarity. <i>Data Mining and Knowledge Discovery</i> , 2006 , 13, 11-40	5.6	47
33	Indexing Multidimensional Time-Series. VLDB Journal, 2006, 15, 1-20	3.9	88
32	Finding the most unusual time series subsequence: algorithms and applications. <i>Knowledge and Information Systems</i> , 2006 , 11, 1-27	2.4	92
31	Efficient Discovery of Unusual Patterns in Time Series. <i>New Generation Computing</i> , 2006 , 25, 61-93	0.9	8
30	Finding Time Series Discords Based on Haar Transform. Lecture Notes in Computer Science, 2006, 31-41	0.9	29
29	Group SAX: Extending the Notion of Contrast Sets to Time Series and Multimedia Data. <i>Lecture Notes in Computer Science</i> , 2006 , 284-296	0.9	10
28	Time-series Bitmaps: a Practical Visualization Tool for Working with Large Time Series Databases 2005 ,		71
27	Mining Time Series Data 2005 , 1069-1103		27
26	A MPAA-Based Iterative Clustering Algorithm Augmented by Nearest Neighbors Search for Time-Series Data Streams. <i>Lecture Notes in Computer Science</i> , 2005 , 333-342	0.9	9
25	Exact indexing of dynamic time warping. Knowledge and Information Systems, 2005, 7, 358-386	2.4	956
24	Clustering of time-series subsequences is meaningless: implications for previous and future research. <i>Knowledge and Information Systems</i> , 2005 , 8, 154-177	2.4	207
23	Visualizing and Discovering Non-Trivial Patterns in Large Time Series Databases. <i>Information Visualization</i> , 2005 , 4, 61-82	2.4	71

22	Three Myths about Dynamic Time Warping Data Mining 2005,		167
21	A Novel Bit Level Time Series Representation with Implication of Similarity Search and Clustering. <i>Lecture Notes in Computer Science</i> , 2005 , 771-777	0.9	46
20	Making Time-series Classification More Accurate Using Learned Constraints 2004,		170
19	SEGMENTING TIME SERIES: A SURVEY AND NOVEL APPROACH. <i>Series in Machine Perception and Artificial Intelligence</i> , 2004 , 1-21	0.3	240
18	Visually mining and monitoring massive time series 2004,		75
17	Towards parameter-free data mining 2004 ,		275
16	Indexing Large Human-Motion Databases 2004 , 780-791		84
15	Probabilistic discovery of time series motifs 2003,		278
14	Clustering of streaming time series is meaningless 2003,		14
13	Efficiently Finding Arbitrarily Scaled Patterns in Massive Time Series Databases. <i>Lecture Notes in Computer Science</i> , 2003 , 253-265	0.9	11
12	On the Need for Time Series Data Mining Benchmarks: A Survey and Empirical Demonstration. <i>Data Mining and Knowledge Discovery</i> , 2003 , 7, 349-371	5.6	459
11	Indexing multi-dimensional time-series with support for multiple distance measures 2003,		197
10	A symbolic representation of time series, with implications for streaming algorithms 2003,		552
9	Exact Indexing of Dynamic Time Warping 2002 , 406-417		342
8	Locally adaptive dimensionality reduction for indexing large time series databases. <i>ACM Transactions on Database Systems</i> , 2002 , 27, 188-228	1.6	228
7	Iterative Deepening Dynamic Time Warping for Time Series 2002 ,		96
6	Finding surprising patterns in a time series database in linear time and space 2002,		179

LIST OF PUBLICATIONS

4	Dimensionality Reduction for Fast Similarity Search in Large Time Series Databases. <i>Knowledge and Information Systems</i> , 2001 , 3, 263-286	2.4	755
3	Locally adaptive dimensionality reduction for indexing large time series databases 2001,		261
2	Locally adaptive dimensionality reduction for indexing large time series databases. <i>SIGMOD Record</i> , 2001 , 30, 151-162	1.1	204
1	FINDING OR NOT FINDING RULES IN TIME SERIES. Advances in Econometrics, 175-201	0.3	2