

Ana L N Fred

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

3,239
citations

430874

18
h-index

206112

48
g-index

126
all docs

126
docs citations

126
times ranked

2867
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining multiple clusterings using evidence accumulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 835-850.	13.9	969
2	Unveiling the Biometric Potential of Finger-Based ECG Signals. Computational Intelligence and Neuroscience, 2011, 2011, 1-8.	1.7	373
3	Finding Consistent Clusters in Data Partitions. Lecture Notes in Computer Science, 2001, , 309-318.	1.3	193
4	A Review, Current Challenges, and Future Possibilities on Emotion Recognition Using Machine Learning and Physiological Signals. IEEE Access, 2019, 7, 140990-141020.	4.2	138
5	<title>A behavioral biometric system based on human-computer interaction</title>. , 2004, , .		113
6	Check Your Biosignals Here: A new dataset for off-the-person ECG biometrics. Computer Methods and Programs in Biomedicine, 2014, 113, 503-514.	4.7	82
7	Analysis of Consensus Partition in Cluster Ensemble. , 0, , .		75
8	A new cluster isolation criterion based on dissimilarity increments. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 944-958.	13.9	68
9	Novel fiducial and non-fiducial approaches to electrocardiogram-based biometric systems. IET Biometrics, 2013, 2, 64-75.	2.5	65
10	Biosignals for Everyone. IEEE Pervasive Computing, 2014, 13, 64-71.	1.3	63
11	Evidence Accumulation Clustering Based on the K-Means Algorithm. Lecture Notes in Computer Science, 2002, , 442-451.	1.3	62
12	Benchmarking of the BITalino biomedical toolkit against an established gold standard. Healthcare Technology Letters, 2019, 6, 32-36.	3.3	61
13	Finger ECG signal for user authentication: Usability and performance. , 2013, , .		58
14	One-Lead ECG-based Personal Identification Using Ziv-Merhav Cross Parsing. , 2010, , .		51
15	Off-the-person electrocardiography: performance assessment and clinical correlation. Health and Technology, 2015, 4, 309-318.	3.6	42
16	Multimodal biosignal sensor data handling for emotion recognition. , 2011, , .		41
17	Emotion Assessment Using Feature Fusion and Decision Fusion Classification Based on Physiological Data: Are We There Yet?. Sensors, 2020, 20, 4723.	3.8	36
18	Probabilistic consensus clustering using evidence accumulation. Machine Learning, 2015, 98, 331-357.	5.4	34

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19	Study and evaluation of a single differential sensor design based on electro-textile electrodes for ECG biometrics applications. , 2011, , .		30
20	Learning Pairwise Similarity for Data Clustering. , 2006, , .		29
21	One Lead ECG Based Personal Identification with Feature Subspace Ensembles. Lecture Notes in Computer Science, 2007, , 770-783.	1.3	28
22	ECG Biometrics Using Deep Learning and Relative Score Threshold Classification. Sensors, 2020, 20, 4078.	3.8	26
23	In-vehicle driver recognition based on hand ECG signals. , 2012, , .		25
24	BIT: Biosignal Igniter Toolkit. Computer Methods and Programs in Biomedicine, 2014, 115, 20-32.	4.7	23
25	ECG-based biometrics: A real time classification approach. , 2012, , .		21
26	Experimental characterization and analysis of the BITalino platforms against a reference device. , 2017, 2017, 2418-2421.		21
27	CardioWheel: ECG Biometrics on the Steering Wheel. Lecture Notes in Computer Science, 2015, , 267-270.	1.3	20
28	Partitional vs Hierarchical Clustering Using a Minimum Grammar Complexity Approach. Lecture Notes in Computer Science, 2000, , 193-202.	1.3	18
29	Performance Comparison of Low-cost Hardware Platforms Targeting Physiological Computing Applications. Procedia Technology, 2014, 17, 399-406.	1.1	18
30	Webbiometrics: User Verification Via Web Interaction. , 2007, , .		17
31	Statistical modeling of dissimilarity increments for d-dimensional data: Application in partitional clustering. Pattern Recognition, 2012, 45, 3061-3071.	8.1	17
32	Automatic detection of cyclic alternating pattern. Neural Computing and Applications, 2022, 34, 11097-11107.	5.6	17
33	Context-Aware Person Re-Identification in the Wild Via Fusion of Gait and Anthropometric Features. , 2017, , .		14
34	Pairwise Probabilistic Clustering Using Evidence Accumulation. Lecture Notes in Computer Science, 2010, , 395-404.	1.3	12
35	Biosignal-Based Multimodal Emotion Recognition in a Valence-Arousal Affective Framework Applied to Immersive Video Visualization. , 2019, 2019, 3577-3583.		11
36	A web-based platform for biosignal visualization and annotation. Multimedia Tools and Applications, 2014, 70, 433-460.	3.9	10

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37	Feature Subspace Ensembles: A Parallel Classifier Combination Scheme Using Feature Selection. , 2007, , 261-270.		10
38	Impact of sampling rate and interpolation on photoplethysmography and electrodermal activity signalsâ€™ waveform morphology and feature extraction. Neural Computing and Applications, 2023, 35, 5661-5677.	5.6	10
39	Automatic K-complex detection using Hjorth parameters and fuzzy decision. , 2010, , .		9
40	Mode Seeking Clustering by KNN and Mean Shift Evaluated. Lecture Notes in Computer Science, 2012, , 51-59.	1.3	9
41	Evaluating Template Uniqueness in ECG Biometrics. Lecture Notes in Electrical Engineering, 2016, , 111-123.	0.4	9
42	A User-Friendly Development Tool for Medical Diagnosis Based on Bayesian Networks. , 2001, , 113-118.		9
43	HiMotion: a new research resource for the study of behavior, cognition, and emotion. Multimedia Tools and Applications, 2014, 73, 345-375.	3.9	8
44	Positive and Negative Evidence Accumulation Clustering for Sensor Fusion: An Application to Heartbeat Clustering. Sensors, 2019, 19, 4635.	3.8	8
45	A Comparative Study of String Dissimilarity Measures in Structural Clustering. , 1999, , 385-394.		8
46	Computation of Substring Probabilities in Stochastic Grammars. Lecture Notes in Computer Science, 2000, , 103-114.	1.3	8
47	Automatic Detection of a Phases for CAP Classification. , 2018, , .		8
48	Ensemble Methods in the Clustering of String Patterns. , 2005, , .		7
49	A Unifying Approach to ECG Biometric Recognition Using the Wavelet Transform. Lecture Notes in Computer Science, 2013, , 53-62.	1.3	7
50	Learning Similarities from Examples Under the Evidence Accumulation Clustering Paradigm. , 2013, , 85-117.		7
51	Cluster validation using a probabilistic attributed graph. , 2008, , .		6
52	On the Scalability of Evidence Accumulation Clustering. , 2010, , .		6
53	Consensus Clustering Using Partial Evidence Accumulation. Lecture Notes in Computer Science, 2013, , 69-78.	1.3	6
54	Generic Biometry Algorithm Based on Signal Morphology Information: Application in the Electrocardiogram Signal. Advances in Intelligent Systems and Computing, 2015, , 301-310.	0.6	6

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55	Unsupervised Analysis of Morphological ECG Features for Attention Detection. Studies in Computational Intelligence, 2016, , 437-453.	0.9	6
56	A Low-Complexity R-peak Detection Algorithm with Adaptive Thresholding for Wearable Devices. , 2021, , .		6
57	Consensus Clustering with Robust Evidence Accumulation. Lecture Notes in Computer Science, 2013, , 307-320.	1.3	6
58	Clustering of sequences using a minimum grammar complexity criterion. Lecture Notes in Computer Science, 1996, , 107-116.	1.3	5
59	A User Authentication Technic Using a~Web Interaction Monitoring System. Lecture Notes in Computer Science, 2003, , 246-254.	1.3	5
60	Feature extraction for psychophysiological load assessment in unconstrained scenarios. , 2012, 2012, 4784-7.		5
61	Identifying regions of interest for discriminating Alzheimer's disease from mild cognitive impairment. , 2014, , .		5
62	Hierarchical Clustering with High Order Dissimilarities. Lecture Notes in Computer Science, 2011, , 280-293.	1.3	5
63	Collective Agents and Collective Intentionality Using the EDA Model. , 2007, , .		4
64	Daily wind power profiles determination using clustering algorithms. , 2012, , .		4
65	Electrodermal response propagation time as a potential psychophysiological marker. , 2012, 2012, 6756-9.		4
66	Semi-Supervised Consensus Clustering for ECG Pathology Classification. Lecture Notes in Computer Science, 2015, , 150-164.	1.3	4
67	A Generative Dyadic Aspect Model for Evidence Accumulation Clustering. Lecture Notes in Computer Science, 2011, , 104-116.	1.3	4
68	Towards the Development of a Thyroid Ultrasound Biometric Scheme Based on Tissue Echo-morphological Features. Communications in Computer and Information Science, 2010, , 286-298.	0.5	4
69	A MAP Approach to Evidence Accumulation Clustering. Advances in Intelligent Systems and Computing, 2015, , 85-100.	0.6	4
70	Mobile Applications for Epilepsy: Where Are We? Where Should We Go? A Systematic Review. Signals, 2022, 3, 40-65.	1.9	4
71	A Novel Technique for Fingerprint Feature Extraction Using Fixed Size Templates. , 0, , .		3
72	On Consensus Clustering Validation. Lecture Notes in Computer Science, 2010, , 385-394.	1.3	3

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73	ECG biometrics: A template selection approach. , 2014, , .		3
74	Harnessing the Power of Biosignals. Computer, 2014, 47, 74-77.	1.1	3
75	Discrimination of Alzheimerâ€™s Disease using longitudinal information. Data Mining and Knowledge Discovery, 2017, 31, 1006-1030.	3.7	3
76	Towards Continuous User Recognition by Exploring Physiological Multimodality: An Electrocardiogram (ECG) and Blood Volume Pulse (BVP) Approach. , 2018, , .		3
77	Smart-Wearables and Heart-Rate Assessment Accuracy. , 2018, , .		3
78	ScientIST: Biomedical Engineering Experiments Supported by Mobile Devices, Cloud and IoT. Signals, 2020, 1, 110-120.	1.9	3
79	Smartphone-based Content Annotation for Ground Truth Collection in Affective Computing. , 2021, , .		3
80	Consensus of Clusterings Based on High-Order Dissimilarities. , 2015, , 313-351.		3
81	Evaluation of a Context-Aware Application for Mobile Robot Control Mediated by Physiological Data: The ToBITas Case Study. Lecture Notes in Computer Science, 2014, , 147-154.	1.3	3
82	On the Distribution of Dissimilarity Increments. Lecture Notes in Computer Science, 2011, , 192-199.	1.3	3
83	k-Nearest Neighbor Classification Using Dissimilarity Increments. Lecture Notes in Computer Science, 2012, , 27-33.	1.3	3
84	Paper-Based Inkjet Electrodes. Lecture Notes in Computer Science, 2014, , 59-70.	1.3	3
85	A Wearable System for Electrodermal Activity Data Acquisition in Collective Experience Assessment. , 2020, , .		3
86	Pattern recognition in information systems. Pattern Recognition, 2002, 35, 2671-2672.	8.1	2
87	Average Cluster Consistency for Cluster Ensemble Selection. Communications in Computer and Information Science, 2011, , 133-148.	0.5	2
88	Neuroorganoleptics: Organoleptic Testing Based on Psychophysiological Sensing. Foods, 2021, 10, 1974.	4.3	2
89	Comparative Study of Medical-grade and Off-the-Person ECG Systems. , 2013, , .		2
90	Similarity Measures and Clustering of String Patterns. Combinatorial Optimization, 2003, , 155-193.	0.7	2

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91	Clustering Data with Temporal Evolution: Application to Electrophysiological Signals. Communications in Computer and Information Science, 2011, , 101-115.	0.5	2
92	Off-the-Person Electrocardiography. , 2013, , .		2
93	EmotiphAI: a biocybernetic engine for real-time biosignals acquisition in a collective setting. Neural Computing and Applications, 2023, 35, 5721-5736.	5.6	2
94	Agents and Artificial Intelligence. Communications in Computer and Information Science, 2011, , .	0.5	1
95	Constraint acquisition methods for data clustering. Intelligent Data Analysis, 2014, 18, S47-S64.	0.9	1
96	Morphological autoencoders for apnea detection in respiratory gating radiotherapy. Computer Methods and Programs in Biomedicine, 2020, 195, 105675.	4.7	1
97	Adaptive Evidence Accumulation Clustering Using the Confidence of the Objectsâ€™ Assignments. Lecture Notes in Computer Science, 2013, , 70-87.	1.3	1
98	Towards the Detection of Deception in Interactive Multimedia Environments. Lecture Notes in Computer Science, 2013, , 65-76.	1.3	1
99	Syntax-Directed Translation Schemes for Multi-Agent Systems Conversation Modelling. , 2001, , 94-100.		1
100	A Study of Embedding Methods under the Evidence Accumulation Framework. Lecture Notes in Computer Science, 2011, , 290-305.	1.3	1
101	Spectral and Time Domain Parameters for The Classification of Atrial Fibrillation. , 2015, , .		1
102	Efficient Evidence Accumulation Clustering for Large Datasets. , 2016, , .		1
103	A dissimilarity-based approach to automatic classification of biosignal modalities. Applied Soft Computing Journal, 2022, 115, 108203.	7.2	1
104	The ENN Project - A Telematics Experience in Neurology. Das ENN-Projekt - Erfahrungen mit Telematik in der Neurologie. Somnologie, 2004, 8, 3-13.	1.5	0
105	Uncertainty based classification fusion - a soft-biometrics test case. , 2008, , .		0
106	Real-Time Pervasive Monitoring System for Ambulatory Patients. , 2018, , .		0
107	EXPERIMENTAL APPARATUS FOR FINGER ECG BIOMETRICS. , 2012, , .		0
108	Dominant Set Approach to ECG Biometrics. Lecture Notes in Computer Science, 2013, , 535-542.	1.3	0

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109	Dissimilarity Increments Distribution in the Evidence Accumulation Clustering Framework. Lecture Notes in Computer Science, 2013, , 535-542.	1.3	0
110	Clustering Algorithm for Human Behavior Recognition Based on Biosignal Analysis. , 2013, , 212-224.		0
111	Learning Similarities by Accumulating Evidence in a Probabilistic Way. Lecture Notes in Computer Science, 2014, , 596-603.	1.3	0
112	Feature Extraction in Pet Images for the Diagnosis of Alzheimerâ€™s Disease. , 2014, , .		0
113	Introducing Negative Evidence in Ensemble Clustering Application in Automatic ECG Analysis. Lecture Notes in Computer Science, 2015, , 54-69.	1.3	0
114	Diagnosing Alzheimerâ€™s Disease: Automatic Extraction and Selection of Coherent Regions in FDG-PET Images. Communications in Computer and Information Science, 2015, , 101-112.	0.5	0
115	R-peak Detector Benchmarking using FieldWiz Device and Physionet Databases. , 2020, , .		0