

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

489802

18
h-index

232693

48
g-index

126
all docs

126
docs citations

126
times ranked

3258
citing authors

#	ARTICLE	IF	CITATIONS
1	EmotiphAI: a biocybernetic engine for real-time biosignals acquisition in a collective setting. <i>Neural Computing and Applications</i> , 2023, 35, 5721-5736.	3.2	2
2	Impact of sampling rate and interpolation on photoplethysmography and electrodermal activity signals waveform morphology and feature extraction. <i>Neural Computing and Applications</i> , 2023, 35, 5661-5677.	3.2	10
3	Automatic detection of cyclic alternating pattern. <i>Neural Computing and Applications</i> , 2022, 34, 11097-11107.	3.2	17
4	A dissimilarity-based approach to automatic classification of biosignal modalities. <i>Applied Soft Computing Journal</i> , 2022, 115, 108203.	4.1	1
5	Mobile Applications for Epilepsy: Where Are We? Where Should We Go? A Systematic Review. <i>Signals</i> , 2022, 3, 40-65.	1.2	4
6	A Low-Complexity R-peak Detection Algorithm with Adaptive Thresholding for Wearable Devices. , 2021, , .		6
7	Smartphone-based Content Annotation for Ground Truth Collection in Affective Computing. , 2021, , .		3
8	Neuroorganoleptics: Organoleptic Testing Based on Psychophysiological Sensing. <i>Foods</i> , 2021, 10, 1974.	1.9	2
9	ECG Biometrics Using Deep Learning and Relative Score Threshold Classification. <i>Sensors</i> , 2020, 20, 4078.	2.1	26
10	Morphological autoencoders for apnea detection in respiratory gating radiotherapy. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105675.	2.6	1
11	Emotion Assessment Using Feature Fusion and Decision Fusion Classification Based on Physiological Data: Are We There Yet?. <i>Sensors</i> , 2020, 20, 4723.	2.1	36
12	ScientIST: Biomedical Engineering Experiments Supported by Mobile Devices, Cloud and IoT. <i>Signals</i> , 2020, 1, 110-120.	1.2	3
13	A Wearable System for Electrodermal Activity Data Acquisition in Collective Experience Assessment. , 2020, , .		3
14	R-peak Detector Benchmarking using FieldWiz Device and Physionet Databases. , 2020, , .		0
15	Benchmarking of the BITalino biomedical toolkit against an established gold standard. <i>Healthcare Technology Letters</i> , 2019, 6, 32-36.	1.9	61
16	Positive and Negative Evidence Accumulation Clustering for Sensor Fusion: An Application to Heartbeat Clustering. <i>Sensors</i> , 2019, 19, 4635.	2.1	8
17	A Review, Current Challenges, and Future Possibilities on Emotion Recognition Using Machine Learning and Physiological Signals. <i>IEEE Access</i> , 2019, 7, 140990-141020.	2.6	138
18	Biosignal-Based Multimodal Emotion Recognition in a Valence-Arousal Affective Framework Applied to Immersive Video Visualization. , 2019, 2019, 3577-3583.		11

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19	Towards Continuous User Recognition by Exploring Physiological Multimodality: An Electrocardiogram (ECG) and Blood Volume Pulse (BVP) Approach. , 2018, , .		3
20	Real-Time Pervasive Monitoring System for Ambulatory Patients. , 2018, , .		0
21	Smart-Wearables and Heart-Rate Assessment Accuracy. , 2018, , .		3
22	Automatic Detection of a Phases for CAP Classification. , 2018, , .		8
23	Discrimination of Alzheimerâ€™s Disease using longitudinal information. Data Mining and Knowledge Discovery, 2017, 31, 1006-1030.	2.4	3
24	Experimental characterization and analysis of the BITalino platforms against a reference device. , 2017, 2017, 2418-2421.		21
25	Context-Aware Person Re-Identification in the Wild Via Fusion of Gait and Anthropometric Features. , 2017, , .		14
26	Evaluating Template Uniqueness in ECG Biometrics. Lecture Notes in Electrical Engineering, 2016, , 111-123.	0.3	9
27	Unsupervised Analysis of Morphological ECG Features for Attention Detection. Studies in Computational Intelligence, 2016, , 437-453.	0.7	6
28	Efficient Evidence Accumulation Clustering for Large Datasets. , 2016, , .		1
29	Generic Biometry Algorithm Based on Signal Morphology Information: Application in the Electrocardiogram Signal. Advances in Intelligent Systems and Computing, 2015, , 301-310.	0.5	6
30	Off-the-person electrocardiography: performance assessment and clinical correlation. Health and Technology, 2015, 4, 309-318.	2.1	42
31	Probabilistic consensus clustering using evidence accumulation. Machine Learning, 2015, 98, 331-357.	3.4	34
32	Consensus of Clusterings Based on High-Order Dissimilarities. , 2015, , 313-351.		3
33	Semi-Supervised Consensus Clustering for ECG Pathology Classification. Lecture Notes in Computer Science, 2015, , 150-164.	1.0	4
34	CardioWheel: ECG Biometrics on the Steering Wheel. Lecture Notes in Computer Science, 2015, , 267-270.	1.0	20
35	A MAP Approach to Evidence Accumulation Clustering. Advances in Intelligent Systems and Computing, 2015, , 85-100.	0.5	4
36	Introducing Negative Evidence in Ensemble Clustering Application in Automatic ECG Analysis. Lecture Notes in Computer Science, 2015, , 54-69.	1.0	0

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37	Diagnosing Alzheimer's Disease: Automatic Extraction and Selection of Coherent Regions in FDG-PET Images. Communications in Computer and Information Science, 2015, , 101-112.	0.4	0
38	Spectral and Time Domain Parameters for The Classification of Atrial Fibrillation. , 2015, , .		1
39	Identifying regions of interest for discriminating Alzheimer's disease from mild cognitive impairment. , 2014, , .		5
40	Constraint acquisition methods for data clustering. Intelligent Data Analysis, 2014, 18, S47-S64.	0.4	1
41	Performance Comparison of Low-cost Hardware Platforms Targeting Physiological Computing Applications. Procedia Technology, 2014, 17, 399-406.	1.1	18
42	Biosignals for Everyone. IEEE Pervasive Computing, 2014, 13, 64-71.	1.1	63
43	HiMotion: a new research resource for the study of behavior, cognition, and emotion. Multimedia Tools and Applications, 2014, 73, 345-375.	2.6	8
44	BIT: Biosignal Igniter Toolkit. Computer Methods and Programs in Biomedicine, 2014, 115, 20-32.	2.6	23
45	ECG biometrics: A template selection approach. , 2014, , .		3
46	Harnessing the Power of Biosignals. Computer, 2014, 47, 74-77.	1.2	3
47	Check Your Biosignals Here: A new dataset for off-the-person ECG biometrics. Computer Methods and Programs in Biomedicine, 2014, 113, 503-514.	2.6	82
48	A web-based platform for biosignal visualization and annotation. Multimedia Tools and Applications, 2014, 70, 433-460.	2.6	10
49	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.	1.0	3
50	Learning Similarities by Accumulating Evidence in a Probabilistic Way. Lecture Notes in Computer Science, 2014, , 596-603.	1.0	0
51	Paper-Based Inkjet Electrodes. Lecture Notes in Computer Science, 2014, , 59-70.	1.0	3
52	Feature Extraction in Pet Images for the Diagnosis of Alzheimer's Disease. , 2014, , .		0
53	Novel fiducial and non-fiducial approaches to electrocardiogram-based biometric systems. IET Biometrics, 2013, 2, 64-75.	1.6	65
54	A Unifying Approach to ECG Biometric Recognition Using the Wavelet Transform. Lecture Notes in Computer Science, 2013, , 53-62.	1.0	7

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55	Consensus Clustering Using Partial Evidence Accumulation. Lecture Notes in Computer Science, 2013, , 69-78.	1.0	6
56	Finger ECG signal for user authentication: Usability and performance. , 2013, , .		58
57	Learning Similarities from Examples Under the Evidence Accumulation Clustering Paradigm. , 2013, , 85-117.		7
58	Adaptive Evidence Accumulation Clustering Using the Confidence of the Objectsâ€™ Assignments. Lecture Notes in Computer Science, 2013, , 70-87.	1.0	1
59	Towards the Detection of Deception in Interactive Multimedia Environments. Lecture Notes in Computer Science, 2013, , 65-76.	1.0	1
60	Consensus Clustering with Robust Evidence Accumulation. Lecture Notes in Computer Science, 2013, , 307-320.	1.0	6
61	Comparative Study of Medical-grade and Off-the-Person ECG Systems. , 2013, , .		2
62	Dominant Set Approach to ECG Biometrics. Lecture Notes in Computer Science, 2013, , 535-542.	1.0	0
63	Off-the-Person Electrocardiography. , 2013, , .		2
64	Dissimilarity Increments Distribution in the Evidence Accumulation Clustering Framework. Lecture Notes in Computer Science, 2013, , 535-542.	1.0	0
65	Clustering Algorithm for Human Behavior Recognition Based on Biosignal Analysis. , 2013, , 212-224.		0
66	Daily wind power profiles determination using clustering algorithms. , 2012, , .		4
67	Feature extraction for psychophysiological load assessment in unconstrained scenarios. , 2012, 2012, 4784-7.		5
68	ECG-based biometrics: A real time classification approach. , 2012, , .		21
69	Mode Seeking Clustering by KNN and Mean Shift Evaluated. Lecture Notes in Computer Science, 2012, , 51-59.	1.0	9
70	Electrodermal response propagation time as a potential psychophysiological marker. , 2012, 2012, 6756-9.		4
71	In-vehicle driver recognition based on hand ECG signals. , 2012, , .		25
72	Statistical modeling of dissimilarity increments for d-dimensional data: Application in partitional clustering. Pattern Recognition, 2012, 45, 3061-3071.	5.1	17

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73	k-Nearest Neighbor Classification Using Dissimilarity Increments. Lecture Notes in Computer Science, 2012, , 27-33.	1.0	3
74	EXPERIMENTAL APPARATUS FOR FINGER ECG BIOMETRICS. , 2012, , .		0
75	Unveiling the Biometric Potential of Finger-Based ECG Signals. Computational Intelligence and Neuroscience, 2011, 2011, 1-8.	1.1	373
76	Average Cluster Consistency for Cluster Ensemble Selection. Communications in Computer and Information Science, 2011, , 133-148.	0.4	2
77	Study and evaluation of a single differential sensor design based on electro-textile electrodes for ECG biometrics applications. , 2011, , .		30
78	Agents and Artificial Intelligence. Communications in Computer and Information Science, 2011, , .	0.4	1
79	Multimodal biosignal sensor data handling for emotion recognition. , 2011, , .		41
80	On the Distribution of Dissimilarity Increments. Lecture Notes in Computer Science, 2011, , 192-199.	1.0	3
81	Hierarchical Clustering with High Order Dissimilarities. Lecture Notes in Computer Science, 2011, , 280-293.	1.0	5
82	A Generative Dyadic Aspect Model for Evidence Accumulation Clustering. Lecture Notes in Computer Science, 2011, , 104-116.	1.0	4
83	Clustering Data with Temporal Evolution: Application to Electrophysiological Signals. Communications in Computer and Information Science, 2011, , 101-115.	0.4	2
84	A Study of Embedding Methods under the Evidence Accumulation Framework. Lecture Notes in Computer Science, 2011, , 290-305.	1.0	1
85	One-Lead ECG-based Personal Identification Using Ziv-Merhav Cross Parsing. , 2010, , .		51
86	Automatic K-complex detection using Hjorth parameters and fuzzy decision. , 2010, , .		9
87	On Consensus Clustering Validation. Lecture Notes in Computer Science, 2010, , 385-394.	1.0	3
88	On the Scalability of Evidence Accumulation Clustering. , 2010, , .		6
89	Pairwise Probabilistic Clustering Using Evidence Accumulation. Lecture Notes in Computer Science, 2010, , 395-404.	1.0	12
90	Towards the Development of a Thyroid Ultrasound Biometric Scheme Based on Tissue Echo-morphological Features. Communications in Computer and Information Science, 2010, , 286-298.	0.4	4

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91	Cluster validation using a probabilistic attributed graph. , 2008, , .		6
92	Uncertainty based classification fusion - a soft-biometrics test case. , 2008, , .		0
93	One Lead ECG Based Personal Identification with Feature Subspace Ensembles. Lecture Notes in Computer Science, 2007, , 770-783.	1.0	28
94	Webbiometrics: User Verification Via Web Interaction. , 2007, , .		17
95	Collective Agents and Collective Intentionality Using the EDA Model. , 2007, , .		4
96	Feature Subspace Ensembles: A Parallel Classifier Combination Scheme Using Feature Selection. , 2007, , 261-270.		10
97	Learning Pairwise Similarity for Data Clustering. , 2006, , .		29
98	Ensemble Methods in the Clustering of String Patterns. , 2005, , .		7
99	Combining multiple clusterings using evidence accumulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 835-850.	9.7	969
100	<title>A behavioral biometric system based on human-computer interaction</title>. , 2004, , .		113
101	The ENN Project - A Telematics Experience in Neurology. Das ENN-Projekt - Erfahrungen mit Telematik in der Neurologie. Somnologie, 2004, 8, 3-13.	0.9	0
102	A new cluster isolation criterion based on dissimilarity increments. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 944-958.	9.7	68
103	A User Authentication Technic Using a~Web Interaction Monitoring System. Lecture Notes in Computer Science, 2003, , 246-254.	1.0	5
104	Similarity Measures and Clustering of String Patterns. Combinatorial Optimization, 2003, , 155-193.	0.7	2
105	Pattern recognition in information systems. Pattern Recognition, 2002, 35, 2671-2672.	5.1	2
106	Evidence Accumulation Clustering Based on the K-Means Algorithm. Lecture Notes in Computer Science, 2002, , 442-451.	1.0	62
107	Finding Consistent Clusters in Data Partitions. Lecture Notes in Computer Science, 2001, , 309-318.	1.0	193
108	A User-Friendly Development Tool for Medical Diagnosis Based on Bayesian Networks. , 2001, , 113-118.		9

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109	Syntax-Directed Translation Schemes for Multi-Agent Systems Conversation Modelling. , 2001, , 94-100.		1
110	Partitional vs Hierarchical Clustering Using a Minimum Grammar Complexity Approach. Lecture Notes in Computer Science, 2000, , 193-202.	1.0	18
111	Computation of Substring Probabilities in Stochastic Grammars. Lecture Notes in Computer Science, 2000, , 103-114.	1.0	8
112	A Comparative Study of String Dissimilarity Measures in Structural Clustering. , 1999, , 385-394.		8
113	Clustering of sequences using a minimum grammar complexity criterion. Lecture Notes in Computer Science, 1996, , 107-116.	1.0	5
114	Analysis of Consensus Partition in Cluster Ensemble. , 0, , .		75
115	A Novel Technique for Fingerprint Feature Extraction Using Fixed Size Templates. , 0, , .		3