

Antonio ArtÃ©s RodrÃ©-guez

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

2,172
citations

218381

26
h-index

288905

40
g-index

139
all docs

139
docs citations

139
times ranked

2387
citing authors

#	ARTICLE	IF	CITATIONS
1	Multinomial Sampling of Latent Variables for Hierarchical Change-Point Detection. <i>Journal of Signal Processing Systems</i> , 2022, 94, 215-227.	1.4	3
2	Medical Data Wrangling With Sequential Variational Autoencoders. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2737-2745.	3.9	4
3	Real-world feasibility and acceptability of real-time suicide risk monitoring via smartphones: A 6-month follow-up cohort. <i>Journal of Psychiatric Research</i> , 2022, 149, 145-154.	1.5	10
4	Social media and smartphone app use predicts maintenance of physical activity during Covid-19 enforced isolation in psychiatric outpatients. <i>Molecular Psychiatry</i> , 2021, 26, 3920-3930.	4.1	17
5	Psychiatric Profiles of eHealth Users Evaluated Using Data Mining Techniques: Cohort Study. <i>JMIR Mental Health</i> , 2021, 8, e17116.	1.7	3
6	Predicting Emotional States Using Behavioral Markers Derived From Passively Sensed Data: Data-Driven Machine Learning Approach. <i>JMIR MHealth and UHealth</i> , 2021, 9, e24465.	1.8	20
7	Patients at high risk of suicide before and during a COVID-19 lockdown: ecological momentary assessment study. <i>BJPsych Open</i> , 2021, 7, e82.	0.3	9
8	Change-point detection in hierarchical circadian models. <i>Pattern Recognition</i> , 2021, 113, 107820.	5.1	6
9	Disturbed sleep as a clinical marker of wish to die: A smartphone monitoring study over three months of observation. <i>Journal of Affective Disorders</i> , 2021, 286, 330-337.	2.0	5
10	Use of Ecological Momentary Assessment Through a Passive Smartphone-Based App (eB2) by Patients With Schizophrenia: Acceptability Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e26548.	2.1	10
11	Shift in Social Media App Usage During COVID-19 Lockdown and Clinical Anxiety Symptoms: Machine Learning-Based Ecological Momentary Assessment Study. <i>JMIR Mental Health</i> , 2021, 8, e30833.	1.7	7
12	Assessment of Variability in Irregularly Sampled Time Series: Applications to Mental Healthcare. <i>Mathematics</i> , 2021, 9, 71.	1.1	1
13	Actigraphic recording of motor activity in depressed inpatients: a novel computational approach to prediction of clinical course and hospital discharge. <i>Scientific Reports</i> , 2020, 10, 17286.	1.6	4
14	Universal mental health screening with a focus on suicidal behaviour using smartphones in a Mexican rural community: protocol for the SMART-SCREEN population-based survey. <i>BMJ Open</i> , 2020, 10, e035041.	0.8	9
15	Multinomial Sampling for Hierarchical Change-Point Detection. , 2020, , .		0
16	Real-Time Ventricular Cancellation in Unipolar Atrial Fibrillation Electrograms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 789.	2.0	1
17	Ecological Momentary Assessment for Monitoring Risk of Suicide Behavior. <i>Current Topics in Behavioral Neurosciences</i> , 2020, 46, 229-245.	0.8	9
18	A Probabilistic Patient Scheduling Model with Time Variable Slots. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-10.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Modeling Phone Call Durations via Switching Poisson Processes with Applications in Mental Health. , 2020, , .		0
20	Smartphone-based ecological momentary assessment (EMA) in psychiatric patients and student controls: A real-world feasibility study. Journal of Affective Disorders, 2020, 274, 733-741.	2.0	52
21	Study protocol of a randomised clinical trial testing whether metacognitive training can improve insight and clinical outcomes in schizophrenia. BMC Psychiatry, 2020, 20, 30.	1.1	6
22	Onset of schizophrenia diagnoses in a large clinical cohort. Scientific Reports, 2019, 9, 9865.	1.6	16
23	Combining mobile-health (mHealth) and artificial intelligence (AI) methods to avoid suicide attempts: the Smartcrises study protocol. BMC Psychiatry, 2019, 19, 277.	1.1	49
24	Assessment of e-Social Activity in Psychiatric Patients. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2247-2256.	3.9	8
25	Deep Sequential Models for Suicidal Ideation From Multiple Source Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2286-2293.	3.9	11
26	Hierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 143-155.	3.9	22
27	Feature Extraction of Galvanic Skin Responses by Nonnegative Sparse Deconvolution. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1385-1394.	3.9	43
28	Real-Time Rotational Activity Detection in Atrial Fibrillation. Frontiers in Physiology, 2018, 9, 208.	1.3	24
29	Combining Continuous Smartphone Native Sensors Data Capture and Unsupervised Data Mining Techniques for Behavioral Changes Detection: A Case Series of the Evidence-Based Behavior (eB2) Study. JMIR MHealth and UHealth, 2018, 6, e197.	1.8	42
30	User profiles of an electronic mental health tool for ecological momentary assessment: MEMind. International Journal of Methods in Psychiatric Research, 2017, 26, .	1.1	54
31	Active Sensing in Human Activity Recognition. Lecture Notes in Computer Science, 2017, , 157-166.	1.0	0
32	A hierarchical algorithm for causality discovery among atrial fibrillation electrograms. , 2016, , .		3
33	Human Activity Recognition by Combining a Small Number of Classifiers. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1342-1351.	3.9	31
34	Smelly parallel MCMC chains. , 2015, , .		6
35	Blind analysis of atrial fibrillation electrograms: A sparsity-aware formulation. Integrated Computer-Aided Engineering, 2015, 22, 71-85.	2.5	11
36	Discriminative spectral learning of hidden markov models for human activity recognition. , 2015, , .		4

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37	Target detection for low cost uncooled MWIR cameras based on empirical mode decomposition. Infrared Physics and Technology, 2014, 63, 222-231.	1.3	4
38	A novel feature extraction technique for human activity recognition. , 2014, , .		7
39	Orthogonal MCMC algorithms. , 2014, , .		6
40	Structured sparse-low rank matrix factorization for the EEG inverse problem. , 2014, , .		0
41	An Automated Screening System for Tuberculosis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 855-862.	3.9	19
42	A regularized matrix factorization approach to induce structured sparse-low-rank solutions in the EEG inverse problem. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	6
43	A Configurable and Low-Power Mixed Signal SoC for Portable ECG Monitoring Applications. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 257-267.	2.7	214
44	Objective diagnosis of ADHD using IMUs. Medical Engineering and Physics, 2014, 36, 922-926.	0.8	45
45	Noise cancellation in IR video based on empirical mode decomposition. Proceedings of SPIE, 2013, , .	0.8	0
46	Energy impact in the design space exploration of loop buffer schemes in embedded systems. , 2013, , .		0
47	Survey of Low-Energy Techniques for Instruction Memory Organisations in Embedded Systems. Journal of Signal Processing Systems, 2013, 70, 1-19.	1.4	10
48	Design Space Exploration of Distributed Loop Buffer Architectures with Incompatible Loop-Nest Organisations in Embedded Systems. Journal of Signal Processing Systems, 2013, 72, 69-85.	1.4	1
49	Cross-products LASSO. , 2013, , .		8
50	Design exploration of a NVM based hybrid instruction memory organization for embedded platforms. Design Automation for Embedded Systems, 2013, 17, 459-483.	0.7	2
51	Power Impact of Loop Buffer Schemes for Biomedical Wireless Sensor Nodes. Sensors, 2012, 12, 15088-15118.	2.1	2
52	A Hold-out method to correct PCA variance inflation. , 2012, , .		0
53	Information-Theoretic Linear Feature Extraction Based on Kernel Density Estimators: A Review. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1180-1189.	3.3	9
54	Long term human activity recognition with automatic orientation estimation. , 2012, , .		1

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55	IMOSIM: Exploration tool for Instruction Memory Organisations based on accurate cycle-level energy modelling. , 2012, , .		1
56	Sparse spectral analysis of atrial fibrillation electrograms. , 2012, , .		10
57	Algorithms for maximum-likelihood bandwidth selection in kernel density estimators. Pattern Recognition Letters, 2012, 33, 1717-1724.	2.6	17
58	Structured sparsity regularization approach to the EEG inverse problem. , 2012, , .		1
59	Machine learning and data mining: strategies for hypothesis generation. Molecular Psychiatry, 2012, 17, 956-959.	4.1	71
60	Human activity recognition using inertial sensors with invariance to sensor orientation. , 2012, , .		10
61	Novel fast random search clustering algorithm for mixing matrix identification in MIMO linear blind inverse problems with sparse inputs. Neurocomputing, 2012, 87, 62-78.	3.5	3
62	Run-time self-tuning banked loop buffer architecture for power optimization of dynamic workload applications. , 2011, , .		2
63	Extended Input Space Support Vector Machine. IEEE Transactions on Neural Networks, 2011, 22, 158-163.	4.8	2
64	Distinguishing the relevant features of frequent suicide attempters. Journal of Psychiatric Research, 2011, 45, 619-625.	1.5	65
65	Improving the accuracy of suicide attempter classification. Artificial Intelligence in Medicine, 2011, 52, 165-168.	3.8	16
66	Improving sale performance prediction using support vector machines. Expert Systems With Applications, 2011, 38, 5129-5132.	4.4	11
67	Fast Background Elimination in Fluorescence Microbiology Images: Comparison of Four Algorithms. International Federation for Information Processing, 2011, , 285-290.	0.4	0
68	Nucleotide variation in central nervous system genes among male suicide attempters. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2010, 153B, 208-213.	1.1	13
69	New initiatives for imagery transmission over a tactical data link. A case study: JPEG2000 compressed images transmitted in a Link-16 network. method and results. , 2010, , .		6
70	Individual identification using personality traits. Journal of Network and Computer Applications, 2010, 33, 293-299.	5.8	5
71	Stability of childhood anxiety disorder diagnoses: a follow-up naturalistic study in psychiatric care. European Child and Adolescent Psychiatry, 2010, 19, 395-403.	2.8	28
72	Bayesian joint recovery of correlated signals in Distributed Compressed Sensing. , 2010, , .		2

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73	[2010] Energy Efficiency Using Loop Buffer based Instruction Memory Organizations. , 2010, , .		0
74	Sensing matrix optimization in Distributed Compressed Sensing. , 2009, , .		4
75	Optimal Sensor Selection in Binary Heterogeneous Sensor Networks. IEEE Transactions on Signal Processing, 2009, 57, 1577-1587.	3.2	18
76	A simulated annealing approach to speaker segmentation in audio databases. Engineering Applications of Artificial Intelligence, 2008, 21, 499-508.	4.3	1
77	Patterns of mental health service utilization in a general hospital and outpatient mental health facilities. European Archives of Psychiatry and Clinical Neuroscience, 2008, 258, 117-123.	1.8	14
78	Compressive sensing detection of stochastic signals. , 2008, , .		9
79	On the uncertainty in sequential hypothesis testing. , 2008, , .		8
80	A Sequential Monte Carlo Method for Target Tracking in an Asynchronous Wireless Sensor Network. , 2007, , .		14
81	Optimal Sensor Selection in Heterogeneous Sensor Networks. , 2007, , .		1
82	A New Cost Function for Binary Classification Problems Based on the Distributions of the Soft Output for Each Class. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
83	Variables associated with familial suicide attempts in a sample of suicide attempters. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2007, 31, 1312-1316.	2.5	29
84	Real-time tracking and identification on an intelligent IR-based surveillance system. , 2007, , .		0
85	Therapeutic Drug Monitoring of Kidney Transplant Recipients Using Profiled Support Vector Machines. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 359-372.	3.3	10
86	Differentiation of ventricular and supraventricular tachycardias based on the analysis of the first postpacing interval after sequential anti-tachycardia pacing in implantable cardioverter-defibrillator patients. Heart Rhythm, 2007, 4, 316-322.	0.3	16
87	Maximization of Mutual Information for Supervised Linear Feature Extraction. IEEE Transactions on Neural Networks, 2007, 18, 1433-1441.	4.8	72
88	Diagnostic stability and evolution of bipolar disorder in clinical practice: a prospective cohort study. Acta Psychiatrica Scandinavica, 2007, 115, 473-480.	2.2	45
89	Particle Filtering Algorithms for Tracking a Maneuvering Target Using a Network of Wireless Dynamic Sensors. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	6
90	Packet Combining Over Rayleigh Channels using Signal-to-Noise Ratio Information and Detection by the Maximum A-Posteriori Criterion. , 2006, , .		1

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91	Using Data Mining to Explore Complex Clinical Decisions. Journal of Clinical Psychiatry, 2006, 67, 1124-1132.	1.1	52
92	Support Vector Regression for the simultaneous learning of a multivariate function and its derivatives. Neurocomputing, 2005, 69, 42-61.	3.5	37
93	Convergence of the IRWLS Procedure to the Support Vector Machine Solution. Neural Computation, 2005, 17, 7-18.	1.3	43
94	Learning a function and its derivative forcing the support vector expansion. IEEE Signal Processing Letters, 2005, 12, 194-197.	2.1	4
95	Adaptively Combined LMS and Logistic Equalizers. IEEE Signal Processing Letters, 2004, 11, 777-779.	2.1	4
96	Special Issue on Learning: Advances in Multimedia Communications, Information Processing, and Education. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2004, 34, 381-382.	3.3	0
97	Advantages of Unbiased Support Vector Classifiers for Data Mining Applications. Journal of Signal Processing Systems, 2004, 37, 223-235.	1.0	4
98	Support Vector Method for Robust ARMA System Identification. IEEE Transactions on Signal Processing, 2004, 52, 155-164.	3.2	116
99	A Gaussian Mixture Based Maximization of Mutual Information for Supervised Feature Extraction. Lecture Notes in Computer Science, 2004, , 271-278.	1.0	6
100	Empirical risk minimization for support vector classifiers. IEEE Transactions on Neural Networks, 2003, 14, 296-303.	4.8	39
101	A robust support vector algorithm for nonparametric spectral analysis. IEEE Signal Processing Letters, 2003, 10, 320-323.	2.1	33
102	A new algorithm for rhythm discrimination in cardioverter defibrillators based on the initial voltage changes of the ventricular electrogram. Europace, 2003, 5, 77-82.	0.7	5
103	Cyclosporine concentration prediction using clustering and support vector regression methods. Electronics Letters, 2002, 38, 568.	0.5	12
104	Multi-dimensional Function Approximation and Regression Estimation. Lecture Notes in Computer Science, 2002, , 757-762.	1.0	44
105	Discriminating between supraventricular and ventricular tachycardias from EGM onset analysis. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 16-26.	1.1	30
106	Support vector black-box interpretation in ventricular arrhythmia discrimination. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 27-35.	1.1	10
107	Automatic Discrimination Between Supraventricular and Ventricular Tachycardia Using a Multilayer Perceptron in Implantable Cardioverter Defibrillators. PACE - Pacing and Clinical Electrophysiology, 2002, 25, 1599-1604.	0.5	6
108	Puncturing Multi-class Support Vector Machines. Lecture Notes in Computer Science, 2002, , 751-756.	1.0	4

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109	Support Vector Robust Algorithms for Non-parametric Spectral Analysis. Lecture Notes in Computer Science, 2002, , 1100-1105.	1.0	1
110	Support Vector Method for ARMA System Identification: A Robust Cost Interpretation. Lecture Notes in Computer Science, 2002, , 1106-1111.	1.0	1
111	SVC-based equalizer for burst TDMA transmissions. Signal Processing, 2001, 81, 1681-1693.	2.1	31
112	GCMAC-based predistortion for digital modulations. IEEE Transactions on Communications, 2001, 49, 1679-1689.	4.9	11
113	Weighted least squares training of support vector classifiers leading to compact and adaptive schemes. IEEE Transactions on Neural Networks, 2001, 12, 1047-1059.	4.8	71
114	Multi-iteration wavelet zero-tree coding for image compression. Signal Processing, 2000, 80, 1281-1287.	2.1	13
115	Fourier analysis of the generalized CMAC neural network. Neural Networks, 1998, 11, 391-396.	3.3	13
116	Generalizing CMAC architecture and training. IEEE Transactions on Neural Networks, 1998, 9, 1509-1514.	4.8	89
117	Sparse deconvolution using adaptive mixed-Gaussian models. Signal Processing, 1996, 54, 161-172.	2.1	17
118	Wiener extrapolation of sequences and the expectation-maximization algorithm. IEEE Signal Processing Letters, 1996, 3, 260-262.	2.1	0
119	Recurrent radial basis function networks for optimal symbol-by-symbol equalization. Signal Processing, 1994, 40, 53-63.	2.1	38
120	Adaptive iterative algorithms for spiky deconvolution. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 1462-1466.	2.0	17
121	Support vector classifier with hyperbolic tangent penalty function. , 0, , .		9
122	Deconvolution and causality for 1:1 arrhythmia discrimination in dual chamber defibrillator. , 0, , .		0
123	Supervised-PCA and SVM classifiers for object detection in infrared images. , 0, , .		9
124	Support vector machine for the simultaneous approximation of a function and its derivative. , 0, , .		0
125	Decentralized detection in sensor networks using range information. , 0, , .		7
126	Target location estimation in sensor networks using range information. , 0, , .		18

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127	Decentralized Detection In Dense Sensor Networks With Censored Transmissions. , 0, , .		1
128	Monte Carlo Algorithms for Tracking a Maneuvering Target using a Network of Mobile Sensors. , 0, , .		6
129	A Monte Carlo Method for Joint Node Location and Maneuvering Target Tracking in a Sensor Network. , 0, , .		3
130	Distributed Hypothesis Testing Using Local Learning Based Classifiers. , 0, , .		1
131	A Fixed-Point Algorithm for Finding the Optimal Covariance Matrix in Kernel Density Modeling. , 0, , .		1