

Antonio ArtÃ©s RodrÃ©-guez

List of Publications by Year in descending order

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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	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
2	Support Vector Method for Robust ARMA System Identification. IEEE Transactions on Signal Processing, 2004, 52, 155-164.	3.2	116
3	Generalizing CMAC architecture and training. IEEE Transactions on Neural Networks, 1998, 9, 1509-1514.	4.8	89
4	Maximization of Mutual Information for Supervised Linear Feature Extraction. IEEE Transactions on Neural Networks, 2007, 18, 1433-1441.	4.8	72
5	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
6	Machine learning and data mining: strategies for hypothesis generation. Molecular Psychiatry, 2012, 17, 956-959.	4.1	71
7	Distinguishing the relevant features of frequent suicide attempters. Journal of Psychiatric Research, 2011, 45, 619-625.	1.5	65
8	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
9	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
10	Using Data Mining to Explore Complex Clinical Decisions. Journal of Clinical Psychiatry, 2006, 67, 1124-1132.	1.1	52
11	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
12	Diagnostic stability and evolution of bipolar disorder in clinical practice: a prospective cohort study. Acta Psychiatrica Scandinavica, 2007, 115, 473-480.	2.2	45
13	Objective diagnosis of ADHD using IMUs. Medical Engineering and Physics, 2014, 36, 922-926.	0.8	45
14	Multi-dimensional Function Approximation and Regression Estimation. Lecture Notes in Computer Science, 2002, , 757-762.	1.0	44
15	Convergence of the IRWLS Procedure to the Support Vector Machine Solution. Neural Computation, 2005, 17, 7-18.	1.3	43
16	Feature Extraction of Galvanic Skin Responses by Nonnegative Sparse Deconvolution. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1385-1394.	3.9	43
17	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
18	Empirical risk minimization for support vector classifiers. IEEE Transactions on Neural Networks, 2003, 14, 296-303.	4.8	39

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19	Recurrent radial basis function networks for optimal symbol-by-symbol equalization. <i>Signal Processing</i> , 1994, 40, 53-63.	2.1	38
20	Support Vector Regression for the simultaneous learning of a multivariate function and its derivatives. <i>Neurocomputing</i> , 2005, 69, 42-61.	3.5	37
21	A robust support vector algorithm for nonparametric spectral analysis. <i>IEEE Signal Processing Letters</i> , 2003, 10, 320-323.	2.1	33
22	SVC-based equalizer for burst TDMA transmissions. <i>Signal Processing</i> , 2001, 81, 1681-1693.	2.1	31
23	Human Activity Recognition by Combining a Small Number of Classifiers. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1342-1351.	3.9	31
24	Discriminating between supraventricular and ventricular tachycardias from EGM onset analysis. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2002, 21, 16-26.	1.1	30
25	Variables associated with familial suicide attempts in a sample of suicide attempters. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2007, 31, 1312-1316.	2.5	29
26	Stability of childhood anxiety disorder diagnoses: a follow-up naturalistic study in psychiatric care. <i>European Child and Adolescent Psychiatry</i> , 2010, 19, 395-403.	2.8	28
27	Real-Time Rotational Activity Detection in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018, 9, 208.	1.3	24
28	Hierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 143-155.	3.9	22
29	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
30	An Automated Screening System for Tuberculosis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 855-862.	3.9	19
31	Target location estimation in sensor networks using range information. , 0, , .		18
32	Optimal Sensor Selection in Binary Heterogeneous Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2009, 57, 1577-1587.	3.2	18
33	Adaptive iterative algorithms for spiky deconvolution. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1990, 38, 1462-1466.	2.0	17
34	Sparse deconvolution using adaptive mixed-Gaussian models. <i>Signal Processing</i> , 1996, 54, 161-172.	2.1	17
35	Algorithms for maximum-likelihood bandwidth selection in kernel density estimators. <i>Pattern Recognition Letters</i> , 2012, 33, 1717-1724.	2.6	17
36	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

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37	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. <i>Heart Rhythm</i> , 2007, 4, 316-322.	0.3	16
38	Improving the accuracy of suicide attempter classification. <i>Artificial Intelligence in Medicine</i> , 2011, 52, 165-168.	3.8	16
39	Onset of schizophrenia diagnoses in a large clinical cohort. <i>Scientific Reports</i> , 2019, 9, 9865.	1.6	16
40	A Sequential Monte Carlo Method for Target Tracking in an Asynchronous Wireless Sensor Network. , 2007, , .		14
41	Patterns of mental health service utilization in a general hospital and outpatient mental health facilities. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2008, 258, 117-123.	1.8	14
42	Fourier analysis of the generalized CMAC neural network. <i>Neural Networks</i> , 1998, 11, 391-396.	3.3	13
43	Multi-iteration wavelet zero-tree coding for image compression. <i>Signal Processing</i> , 2000, 80, 1281-1287.	2.1	13
44	Nucleotide variation in central nervous system genes among male suicide attempters. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2010, 153B, 208-213.	1.1	13
45	Cyclosporine concentration prediction using clustering and support vector regression methods. <i>Electronics Letters</i> , 2002, 38, 568.	0.5	12
46	GCMAC-based predistortion for digital modulations. <i>IEEE Transactions on Communications</i> , 2001, 49, 1679-1689.	4.9	11
47	Improving sale performance prediction using support vector machines. <i>Expert Systems With Applications</i> , 2011, 38, 5129-5132.	4.4	11
48	Blind analysis of atrial fibrillation electrograms: A sparsity-aware formulation. <i>Integrated Computer-Aided Engineering</i> , 2015, 22, 71-85.	2.5	11
49	Deep Sequential Models for Suicidal Ideation From Multiple Source Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2286-2293.	3.9	11
50	Support vector black-box interpretation in ventricular arrhythmia discrimination. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2002, 21, 27-35.	1.1	10
51	Therapeutic Drug Monitoring of Kidney Transplant Recipients Using Profiled Support Vector Machines. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007, 37, 359-372.	3.3	10
52	Sparse spectral analysis of atrial fibrillation electrograms. , 2012, , .		10
53	Human activity recognition using inertial sensors with invariance to sensor orientation. , 2012, , .		10
54	Survey of Low-Energy Techniques for Instruction Memory Organisations in Embedded Systems. <i>Journal of Signal Processing Systems</i> , 2013, 70, 1-19.	1.4	10

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55	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
56	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
57	Support vector classifier with hyperbolic tangent penalty function. , 0, , .		9
58	Supervised-PCA and SVM classifiers for object detection in infrared images. , 0, , .		9
59	Compressive sensing detection of stochastic signals. , 2008, , .		9
60	Information-Theoretic Linear Feature Extraction Based on Kernel Density Estimators: A Review. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 1180-1189.	3.3	9
61	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
62	Ecological Momentary Assessment for Monitoring Risk of Suicide Behavior. <i>Current Topics in Behavioral Neurosciences</i> , 2020, 46, 229-245.	0.8	9
63	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
64	On the uncertainty in sequential hypothesis testing. , 2008, , .		8
65	Cross-products LASSO. , 2013, , .		8
66	Assessment of e-Social Activity in Psychiatric Patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2247-2256.	3.9	8
67	Decentralized detection in sensor networks using range information. , 0, , .		7
68	A novel feature extraction technique for human activity recognition. , 2014, , .		7
69	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
70	Automatic Discrimination Between Supraventricular and Ventricular Tachycardia Using a Multilayer Perceptron in Implantable Cardioverter Defibrillators. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 1599-1604.	0.5	6
71	A Gaussian Mixture Based Maximization of Mutual Information for Supervised Feature Extraction. <i>Lecture Notes in Computer Science</i> , 2004, , 271-278.	1.0	6
72	Monte Carlo Algorithms for Tracking a Maneuvering Target using a Network of Mobile Sensors. , 0, , .		6

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73	Particle Filtering Algorithms for Tracking a Maneuvering Target Using a Network of Wireless Dynamic Sensors. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006, 2006, 1.	1.0	6
74	New initiatives for imagery transmission over a tactical data link. A case study: JPEG2000 compressed images transmitted in a Link-16 network. <i>method and results.</i> , 2010, , .		6
75	Orthogonal MCMC algorithms. , 2014, , .		6
76	A regularized matrix factorization approach to induce structured sparse-low-rank solutions in the EEG inverse problem. <i>Eurasip Journal on Advances in Signal Processing</i> , 2014, 2014, .	1.0	6
77	Smelly parallel MCMC chains. , 2015, , .		6
78	A Probabilistic Patient Scheduling Model with Time Variable Slots. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-10.	0.7	6
79	Change-point detection in hierarchical circadian models. <i>Pattern Recognition</i> , 2021, 113, 107820.	5.1	6
80	Study protocol of a randomised clinical trial testing whether metacognitive training can improve insight and clinical outcomes in schizophrenia. <i>BMC Psychiatry</i> , 2020, 20, 30.	1.1	6
81	A new algorithm for rhythm discrimination in cardioverter defibrillators based on the initial voltage changes of the ventricular electrogram. <i>Europace</i> , 2003, 5, 77-82.	0.7	5
82	Individual identification using personality traits. <i>Journal of Network and Computer Applications</i> , 2010, 33, 293-299.	5.8	5
83	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
84	Adaptively Combined LMS and Logistic Equalizers. <i>IEEE Signal Processing Letters</i> , 2004, 11, 777-779.	2.1	4
85	Advantages of Unbiased Support Vector Classifiers for Data Mining Applications. <i>Journal of Signal Processing Systems</i> , 2004, 37, 223-235.	1.0	4
86	Learning a function and its derivative forcing the support vector expansion. <i>IEEE Signal Processing Letters</i> , 2005, 12, 194-197.	2.1	4
87	Sensing matrix optimization in Distributed Compressed Sensing. , 2009, , .		4
88	Target detection for low cost uncooled MWIR cameras based on empirical mode decomposition. <i>Infrared Physics and Technology</i> , 2014, 63, 222-231.	1.3	4
89	Discriminative spectral learning of hidden markov models for human activity recognition. , 2015, , .		4
90	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

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91	Puncturing Multi-class Support Vector Machines. Lecture Notes in Computer Science, 2002, , 751-756.	1.0	4
92	Medical Data Wrangling With Sequential Variational Autoencoders. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2737-2745.	3.9	4
93	A Monte Carlo Method for Joint Node Location and Maneuvering Target Tracking in a Sensor Network. , 0, , .		3
94	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
95	A hierarchical algorithm for causality discovery among atrial fibrillation electrograms. , 2016, , .		3
96	Psychiatric Profiles of eHealth Users Evaluated Using Data Mining Techniques: Cohort Study. JMIR Mental Health, 2021, 8, e17116.	1.7	3
97	Multinomial Sampling of Latent Variables for Hierarchical Change-Point Detection. Journal of Signal Processing Systems, 2022, 94, 215-227.	1.4	3
98	Bayesian joint recovery of correlated signals in Distributed Compressed Sensing. , 2010, , .		2
99	Run-time self-tuning banked loop buffer architecture for power optimization of dynamic workload applications. , 2011, , .		2
100	Extended Input Space Support Vector Machine. IEEE Transactions on Neural Networks, 2011, 22, 158-163.	4.8	2
101	Power Impact of Loop Buffer Schemes for Biomedical Wireless Sensor Nodes. Sensors, 2012, 12, 15088-15118.	2.1	2
102	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
103	Decentralized Detection In Dense Sensor Networks With Censored Transmissions. , 0, , .		1
104	Distributed Hypothesis Testing Using Local Learning Based Classifiers. , 0, , .		1
105	A Fixed-Point Algorithm for Finding the Optimal Covariance Matrix in Kernel Density Modeling. , 0, , .		1
106	Packet Combining Over Rayleigh Channels using Signal-to-Noise Ratio Information and Detection by the Maximum A-Posteriori Criterion. , 2006, , .		1
107	Optimal Sensor Selection in Heterogeneous Sensor Networks. , 2007, , .		1
108	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

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109	A simulated annealing approach to speaker segmentation in audio databases. Engineering Applications of Artificial Intelligence, 2008, 21, 499-508.	4.3	1
110	Long term human activity recognition with automatic orientation estimation. , 2012, , .		1
111	IMOSIM: Exploration tool for Instruction Memory Organisations based on accurate cycle-level energy modelling. , 2012, , .		1
112	Structured sparsity regularization approach to the EEG inverse problem. , 2012, , .		1
113	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
114	Real-Time Ventricular Cancellation in Unipolar Atrial Fibrillation Electrograms. Frontiers in Bioengineering and Biotechnology, 2020, 8, 789.	2.0	1
115	Support Vector Robust Algorithms for Non- parametric Spectral Analysis. Lecture Notes in Computer Science, 2002, , 1100-1105.	1.0	1
116	Support Vector Method for ARMA System Identification: A Robust Cost Interpretation. Lecture Notes in Computer Science, 2002, , 1106-1111.	1.0	1
117	Assessment of Variability in Irregularly Sampled Time Series: Applications to Mental Healthcare. Mathematics, 2021, 9, 71.	1.1	1
118	Wiener extrapolation of sequences and the expectation-maximization algorithm. IEEE Signal Processing Letters, 1996, 3, 260-262.	2.1	0
119	Deconvolution and causality for 1:1 arrhythmia discrimination in dual chamber defibrillator. , 0, , .		0
120	Support vector machine for the simultaneous approximation of a function and its derivative. , 0, , .		0
121	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
122	Real-time tracking and identification on an intelligent IR-based surveillance system. , 2007, , .		0
123	[2010] Energy Efficiency Using Loop Buffer based Instruction Memory Organizations. , 2010, , .		0
124	A Hold-out method to correct PCA variance inflation. , 2012, , .		0
125	Noise cancellation in IR video based on empirical mode decomposition. Proceedings of SPIE, 2013, , .	0.8	0
126	Energy impact in the design space exploration of loop buffer schemes in embedded systems. , 2013, , .		0

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127	Structured sparse-low rank matrix factorization for the EEG inverse problem. , 2014, , .		0
128	Multinomial Sampling for Hierarchical Change-Point Detection. , 2020, , .		0
129	Modeling Phone Call Durations via Switching Poisson Processes with Applications in Mental Health. , 2020, , .		0
130	Fast Background Elimination in Fluorescence Microbiology Images: Comparison of Four Algorithms. International Federation for Information Processing, 2011, , 285-290.	0.4	0
131	Active Sensing in Human Activity Recognition. Lecture Notes in Computer Science, 2017, , 157-166.	1.0	0