

# Amin Zollanvari

## List of Publications by Year in descending order

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66  
papers

847  
citations

430874

18  
h-index

526287

27  
g-index

66  
all docs

66  
docs citations

66  
times ranked

656  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Deep Learning Model Selection for P300-Based Brain-Computer Interfaces. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2744-2756.	9.3	24
2	Confidence Level Estimation for Advanced Decision-Making in Transformer Short-circuit Fault Diagnosis. IEEE Transactions on Industry Applications, 2022, 58, 233-241.	4.9	6
3	A Bootstrapping Solution for Effective Interpretation of Transformer Winding Frequency Response. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	8
4	An Ensemble of Convolutional Neural Networks for Zero-Calibration ERP-Based BCIs. , 2022, , .		1
5	A New Diagnostic Technique for Reliable Decision-Making on Transformer FRA Data in Interturn Short-Circuit Condition. IEEE Transactions on Industrial Informatics, 2021, 17, 3020-3031.	11.3	19
6	Transformer Fault Prognosis Using Deep Recurrent Neural Network Over Vibration Signals. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	60
7	Deep Transfer Learning for Subject-Independent ERP-based BCIs. , 2021, , .		0
8	Data Augmentation for P300-based Brain-Computer Interfaces Using Generative Adversarial Networks. , 2021, , .		6
9	Complex Encoding. , 2021, , .		6
10	Bias correction for linear discriminant analysis. Pattern Recognition Letters, 2021, 151, 41-47.	4.2	3
11	High Voltage Insulators Condition Analysis using Convolutional Neural Network. , 2021, , .		3
12	Remote Monitoring of Outdoor High Voltage Insulator using Deep Learning-based Image Processing. , 2021, , .		1
13	An Ensemble CNN for Subject-Independent Classification of Motor Imagery-based EEG. , 2021, 2021, 319-324.		5
14	Accurate Surface Condition Classification of High Voltage Insulators based on Deep Convolutional Neural Networks. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 2126-2133.	2.9	13
15	A Theoretical Analysis of the Peaking Phenomenon in Classification. Journal of Classification, 2020, 37, 421-434.	2.2	13
16	A New Transformer FRA Test Setup for Advanced Interpretation and Winding Short-circuit Prediction. , 2020, , .		3
17	A Brute-Force CNN Model Selection for Accurate Classification of Sensorimotor Rhythms in BCIs. IEEE Access, 2020, 8, 101014-101023.	4.2	14
18	Novel Spatospectral Features of ERPs Enhances Brain-Computer Interfaces. , 2019, , .		1

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19	Asymptotically Bias-Corrected Regularized Linear Discriminant Analysis for Cost-Sensitive Binary Classification. <i>IEEE Signal Processing Letters</i> , 2019, 26, 1300-1304.	3.6	4
20	Design and Optimization of a BCI-Driven Telepresence Robot Through Programming by Demonstration. <i>IEEE Access</i> , 2019, 7, 111625-111636.	4.2	10
21	A New Transformer FRA Measurement Technique to Reach Smart Interpretation for Inter-Disk Faults. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1508-1519.	4.3	45
22	Optimal Bayesian Classification With Vector Autoregressive Data Dependency. <i>IEEE Transactions on Signal Processing</i> , 2019, 67, 3073-3086.	5.3	8
23	Learning Discriminative Spatospectral Features of ERPs for Accurate Brain-Computer Interfaces. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2009-2020.	6.3	26
24	Edge-Aware Spatial Denoising Filtering Based on a Psychological Model of Stimulus Similarity. <i>IEEE Access</i> , 2018, 6, 3433-3447.	4.2	2
25	Transformer Fault Condition Prognosis Using Vibration Signals Over Cloud Environment. <i>IEEE Access</i> , 2018, 6, 9862-9874.	4.2	75
26	A new vibration analysis approach for transformer fault prognosis over cloud environment. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 100, 104-116.	5.5	30
27	Predictive Meta-analysis of Multiple Microarray Datasets: An Application to Classification of Malignant Gliomas. , 2018, , .		0
28	Optimal Bayesian Classification When the Training Observations are Serially Dependent. , 2018, , .		1
29	SNP by SNP by environment interaction network of alcoholism. <i>BMC Systems Biology</i> , 2017, 11, 19.	3.0	8
30	Interpretive time-frequency analysis of genomic sequences. <i>BMC Bioinformatics</i> , 2017, 18, 154.	2.6	8
31	Nonoptimality of the Maximum-Weight Dependence Tree in Classification. <i>IEEE Signal Processing Letters</i> , 2017, 24, 71-75.	3.6	0
32	Predicting Students'™ GPA and Developing Intervention Strategies Based on Self-Regulatory Learning Behaviors. <i>IEEE Access</i> , 2017, 5, 23792-23802.	4.2	43
33	Adaptive face space models with dynamic neural priors and sparse coding. , 2017, , .		0
34	Interpretive Time-Frequency Analysis of Genomic Sequences. , 2016, , .		0
35	An efficient method to estimate the optimum regularization parameter in RLDA. <i>Bioinformatics</i> , 2016, 32, 3461-3468.	4.1	6
36	Incorporating prior knowledge induced from stochastic differential equations in the classification of stochastic observations. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2016, 2016, 2.	1.4	1

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37	High-Dimensional Statistical Learning: Roots, Justifications, and Potential Machineries. <i>Cancer Informatics</i> , 2015, 14s5, CIN.S30804.	1.9	2
38	Generalized Consistent Error Estimator of Linear Discriminant Analysis. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 2804-2814.	5.3	29
39	Bayesian prognostic model for genomic discovery in bipolar disorder. , 2014, , .		1
40	Prevalence of halitosis in children considering oral hygiene, gender and age. <i>International Journal of Dental Hygiene</i> , 2014, 12, 208-212.	1.9	37
41	Cross-validation under separate sampling: strong bias and how to correct it. <i>Bioinformatics</i> , 2014, 30, 3349-3355.	4.1	24
42	Moments and root-mean-square error of the Bayesian MMSE estimator of classification error in the Gaussian model. <i>Pattern Recognition</i> , 2014, 47, 2178-2192.	8.1	29
43	On Kolmogorov asymptotics of estimators of the misclassification error rate in linear discriminant analysis. <i>Sankhya A</i> , 2013, 75, 300-326.	0.8	1
44	Analytical study of performance of linear discriminant analysis in stochastic settings. <i>Pattern Recognition</i> , 2013, 46, 3017-3029.	8.1	10
45	Application of double asymptotics and random matrix theory in error estimation of regularized linear discriminant analysis. , 2013, , .		1
46	Effect of mixing probabilities on the bias of cross-validation under separate sampling. , 2013, , .		0
47	Classifier design given an uncertainty class of feature distributions via regularized maximum likelihood and the incorporation of biological pathway knowledge in steady-state phenotype classification. <i>Pattern Recognition</i> , 2013, 46, 2783-2797.	8.1	9
48	Temporal phenome analysis of a large electronic health record cohort enables identification of hospital-acquired complications. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, e281-e287.	4.4	25
49	Performance of linear discriminant analysis in stochastic settings. , 2013, , .		0
50	Random matrix theory in pattern classification: An application to error estimation. , 2013, , .		7
51	Reverse engineering biomolecular systems using -omic data: challenges, progress and opportunities. <i>Briefings in Bioinformatics</i> , 2012, 13, 430-445.	6.5	19
52	Exact representation of the second-order moments for resubstitution and leave-one-out error estimation for linear discriminant analysis in the univariate heteroskedastic Gaussian model. <i>Pattern Recognition</i> , 2012, 45, 908-917.	8.1	20
53	A bayesian translational framework for knowledge propagation, discovery, and integration under specific contexts. <i>AMIA Summits on Translational Science Proceedings</i> , 2012, 2012, 25-34.	0.4	0
54	An automated bayesian framework for integrative gene expression analysis and predictive medicine. <i>AMIA Summits on Translational Science Proceedings</i> , 2012, 2012, 95-104.	0.4	0

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55	Context-specific ontology integration: a bayesian approach. AMIA Summits on Translational Science Proceedings, 2012, 2012, 79-86.	0.4	2
56	The Illusion of Distribution-Free Small-Sample Classification in Genomics. Current Genomics, 2011, 12, 333-341.	1.6	42
57	Analytic Study of Performance of Error Estimators for Linear Discriminant Analysis. IEEE Transactions on Signal Processing, 2011, 59, 4238-4255.	5.3	43
58	Is the reduction of dimensionality to a small number of features always necessary in constructing predictive models for analysis of complex diseases or behaviours?. , 2011, 2011, 3573-6.		2
59	Joint Sampling Distribution Between Actual and Estimated Classification Errors for Linear Discriminant Analysis. IEEE Transactions on Information Theory, 2010, 56, 784-804.	2.4	33
60	A class of comprehensive constraints for design of PCWLSE Laguerre and FIR filters: A boost in performance. Signal Processing, 2010, 90, 1118-1130.	3.7	3
61	RMS bounds and sample size considerations for error estimation in linear discriminant analysis. , 2010, , .		0
62	A class of comprehensive constraints for the PCWLSE filter design: A boost in performance. , 2009, , .		1
63	Analysis and modeling of time-course gene-expression profiles from nanomaterial-exposed primary human epidermal keratinocytes. BMC Bioinformatics, 2009, 10, S10.	2.6	11
64	On the sampling distribution of resubstitution and leave-one-out error estimators for linear classifiers. Pattern Recognition, 2009, 42, 2705-2723.	8.1	36
65	Sample size calculation from specified RMS of the resubstitution error for linear classifiers. , 2009, , .		0
66	Complex digital Laguerre filter design with weighted least square error subject to magnitude and phase constraints. Signal Processing, 2008, 88, 796-810.	3.7	7