

Deniz Erdogmus

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	2,166 citations	29 h-index	45 g-index
80 ext. papers	2,850 ext. citations	4.5 avg, IF	5.06 L-index

#	Paper	IF	Citations
73	Improved training efficiency for retinopathy of prematurity deep learning models using comparison versus class labels. <i>Ophthalmology Science</i> , 2022 , 100122		
72	Active recursive Bayesian inference using Rényi information measures. <i>Pattern Recognition Letters</i> , 2022 , 154, 90-98	4.7	
71	Target-Related Alpha Attenuation in a Brain-Computer Interface Rapid Serial Visual Presentation Calibration.. <i>Frontiers in Human Neuroscience</i> , 2022 , 16, 882557	3.3	0
70	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. <i>Ophthalmology</i> , 2021 , 128, 1070-1076	7.3	9
69	EEG-based texture roughness classification in active tactile exploration with invariant representation learning networks. <i>Biomedical Signal Processing and Control</i> , 2021 , 67, 102507-102507	4.9	0
68	Universal Physiological Representation Learning With Soft-Disentangled Rateless Autoencoders. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 2928-2937	7.2	0
67	Stochastic Mutual Information Gradient Estimation for Dimensionality Reduction Networks. <i>Information Sciences</i> , 2021 , 570, 298-305	7.7	5
66	Learning Invariant Representations from EEG via Adversarial Inference. <i>IEEE Access</i> , 2020 , 8, 27074-27085	3.5	25
65	Plus Disease in Retinopathy of Prematurity: Convolutional Neural Network Performance Using a Combined Neural Network and Feature Extraction Approach. <i>Translational Vision Science and Technology</i> , 2020 , 9, 10	3.3	9
64	Siamese neural networks for continuous disease severity evaluation and change detection in medical imaging. <i>Npj Digital Medicine</i> , 2020 , 3, 48	15.7	31
63	Biosensor prediction of aggression in youth with autism using kernel-based methods 2020 ,		3
62	Disentangled Adversarial Autoencoder for Subject-Invariant Physiological Feature Extraction. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1565-1569	3.2	6
61	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. <i>Ophthalmology Retina</i> , 2020 , 4, 1016-1021	3.8	4
60	SSVEP BCI and Eye Tracking Use by Individuals With Late-Stage ALS and Visual Impairments. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 595890	3.3	4
59	Information Theoretic Feature Transformation Learning for Brain Interfaces. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 69-78	5	6
58	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>Ophthalmology Retina</i> , 2019 , 3, 444-450	3.8	31
57	Classification and comparison via neural networks. <i>Neural Networks</i> , 2019 , 118, 65-80	9.1	11

56	Predicting aggression to others in youth with autism using a wearable biosensor. <i>Autism Research</i> , 2019 , 12, 1286-1296	5.1	28
55	Adversarial Deep Learning in EEG Biometrics. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 710-714	3.2	37
54	Real-Time Deep Pose Estimation With Geodesic Loss for Image-to-Template Rigid Registration. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 470-481	11.7	27
53	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. <i>JAMA Ophthalmology</i> , 2019 ,	3.9	43
52	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. <i>JAMA Ophthalmology</i> , 2019 ,	3.9	31
51	Asymmetric Loss Functions and Deep Densely Connected Networks for Highly Imbalanced Medical Image Segmentation: Application to Multiple Sclerosis Lesion Detection. <i>IEEE Access</i> , 2019 , 7, 721-1735	3.5	73
50	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>JAMA Ophthalmology</i> , 2018 , 136, 803-810	3.9	246
49	Effects of simulated visual acuity and ocular motility impairments on SSVEP brain-computer interface performance: An experiment with Shuffle Speller. <i>Brain-Computer Interfaces</i> , 2018 , 5, 58-72	2	6
48	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. <i>British Journal of Ophthalmology</i> , 2018 ,	5.5	53
47	Auto-Context Convolutional Neural Network (Auto-Net) for Brain Extraction in Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2319-2330	11.7	113
46	INFORMATION THEORETIC FEATURE PROJECTION FOR SINGLE-TRIAL BRAIN-COMPUTER INTERFACES 2017 , 2017,		2
45	Probabilistic Simulation Framework for EEG-Based BCI Design. <i>Brain-Computer Interfaces</i> , 2016 , 3, 171-185		9
44	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. <i>JAMA Ophthalmology</i> , 2016 , 134, 651-7	3.9	68
43	Plus Disease in Retinopathy of Prematurity: Improving Diagnosis by Ranking Disease Severity and Using Quantitative Image Analysis. <i>Ophthalmology</i> , 2016 , 123, 2345-2351	7.3	43
42	Plus Disease in Retinopathy of Prematurity: A Continuous Spectrum of Vascular Abnormality as a Basis of Diagnostic Variability. <i>Ophthalmology</i> , 2016 , 123, 2338-2344	7.3	45
41	Computer-Based Image Analysis for Plus Disease Diagnosis in Retinopathy of Prematurity: Performance of the "i-ROP" System and Image Features Associated With Expert Diagnosis. <i>Translational Vision Science and Technology</i> , 2015 , 4, 5	3.3	76
40	Brain-computer interface with language model-electroencephalography fusion for locked-in syndrome. <i>Neurorehabilitation and Neural Repair</i> , 2014 , 28, 387-94	4.7	51
39	Noninvasive brain-computer interfaces for augmentative and alternative communication. <i>IEEE Reviews in Biomedical Engineering</i> , 2014 , 7, 31-49	6.4	92

38	RSVP Keyboard: An EEG Based Typing Interface. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2012 ,	1.6	61
37	2012 ,		1
36	Principal curves as skeletons of tubular objects: locally characterizing the structures of axons. <i>Neuroinformatics</i> , 2011 , 9, 181-91	3.2	59
35	A framework for rapid visual image search using single-trial brain evoked responses. <i>Neurocomputing</i> , 2011 , 74, 2041-2051	5.4	50
34	2010 ,		9
33	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information Science and Statistics</i> , 2010 , 103-140		1
32	Optimal set of EEG electrodes for rapid serial visual presentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4335-8	0.9	2
31	Self-Organizing ITL Principles for Unsupervised Learning. <i>Information Science and Statistics</i> , 2010 , 299-349		
30	Classification with EEC, Divergence Measures, and Error Bounds. <i>Information Science and Statistics</i> , 2010 , 219-261		2
29	Detecting EEG evoked responses for target image search with mixed effect models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 4988-91	0.9	2
28	Mean shift spectral clustering. <i>Pattern Recognition</i> , 2008 , 41, 1924-1938	7.7	38
27	Information Theoretic Feature Selection and Projection. <i>Studies in Computational Intelligence</i> , 2008 , 1-220.8		5
26	Information cut for clustering using a gradient descent approach. <i>Pattern Recognition</i> , 2007 , 40, 796-806	7.7	26
25	Quasi-sliding mode control strategy based on multiple-linear models. <i>Neurocomputing</i> , 2007 , 70, 960-974	5.4	18
24	Self-Consistent Locally Defined Principal Surfaces 2007 ,		14
23	A Fusion Approach for Image Triage using Single Trial ERP Detection 2007 ,		7
22	Feature extraction using information-theoretic learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 1385-92	13.3	97
21	From linear adaptive filtering to nonlinear information processing - The design and analysis of information processing systems. <i>IEEE Signal Processing Magazine</i> , 2006 , 23, 14-33	9.4	58

20	Modeling and inverse controller design for an unmanned aerial vehicle based on the self-organizing map. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 445-60		36
19	An analysis of entropy estimators for blind source separation. <i>Signal Processing</i> , 2006 , 86, 182-194	4.4	29
18	The Cauchy-Schwarz divergence and Parzen windowing: Connections to graph theory and Mercer kernels. <i>Journal of the Franklin Institute</i> , 2006 , 343, 614-629	4	49
17	Spectral feature projections that maximize Shannon mutual information with class labels. <i>Pattern Recognition</i> , 2006 , 39, 1241-1252	7.7	48
16	Some Equivalences between Kernel Methods and Information Theoretic Methods. <i>Journal of Signal Processing Systems</i> , 2006 , 45, 49-65		20
15	Zero-Entropy Minimization for Blind Extraction of Bounded Sources (BEBS). <i>Lecture Notes in Computer Science</i> , 2006 , 747-754	0.9	1
14	A mutual information extension to the matched filter. <i>Signal Processing</i> , 2005 , 85, 927-935	4.4	23
13	Vector quantization using information theoretic concepts. <i>Natural Computing</i> , 2005 , 4, 39-51	1.3	48
12	Optimizing the Cauchy-Schwarz PDF Distance for Information Theoretic, Non-parametric Clustering. <i>Lecture Notes in Computer Science</i> , 2005 , 34-45	0.9	17
11	Minimax mutual information approach for independent component analysis. <i>Neural Computation</i> , 2004 , 16, 1235-52	2.9	45
10	Lower and Upper Bounds for Misclassification Probability Based on Renyi's Information. <i>Journal of Signal Processing Systems</i> , 2004 , 37, 305-317		38
9	Image construction methods for phased array magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 306-14	5.6	16
8	Measuring the signal-to-noise ratio in magnetic resonance imaging: a caveat. <i>Signal Processing</i> , 2004 , 84, 1035-1040	4.4	19
7	Minimax Mutual Information Approach for ICA of Complex-Valued Linear Mixtures. <i>Lecture Notes in Computer Science</i> , 2004 , 311-318	0.9	1
6	Information Force Clustering Using Directed Trees. <i>Lecture Notes in Computer Science</i> , 2003 , 68-82	0.9	6
5	Stochastic error whitening algorithm for linear filter estimation with noisy data. <i>Neural Networks</i> , 2003 , 16, 873-80	9.1	7
4	SNR-optimality of sum-of-squares reconstruction for phased-array magnetic resonance imaging. <i>Journal of Magnetic Resonance</i> , 2003 , 163, 121-3	3	62
3	Blind source separation using Renyi's marginal entropies. <i>Neurocomputing</i> , 2002 , 49, 25-38	5.4	40

2	Beyond second-order statistics for learning: A pairwise interaction model for entropy estimation. <i>Natural Computing</i> , 2002 , 1, 85-108	1.3	11
1	A Neural Network Perspective to Extended Luenberger Observers. <i>Measurement and Control</i> , 2002 , 35, 10-16	1.5	7