

# Deniz Erdogmus

## List of Publications by Citations

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98  
papers

1,697  
citations

20  
h-index

39  
g-index

114  
ext. papers

2,294  
ext. citations

3.8  
avg. IF

4.97  
L-index

#	Paper	IF	Citations
98	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>JAMA Ophthalmology</i> , <b>2018</b> , 136, 803-810	3.9	246
97	The Future of Human-in-the-Loop Cyber-Physical Systems. <i>Computer</i> , <b>2013</b> , 46, 36-45	1.6	195
96	Feature extraction using information-theoretic learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1385-92	13.3	97
95	Noninvasive brain-computer interfaces for augmentative and alternative communication. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2014</b> , 7, 31-49	6.4	92
94	Asymmetric Loss Functions and Deep Densely Connected Networks for Highly Imbalanced Medical Image Segmentation: Application to Multiple Sclerosis Lesion Detection. <i>IEEE Access</i> , <b>2019</b> , 7, 721-1735	3.5	73
93	RSVP Keyboard: An EEG Based Typing Interface. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2012</b> ,	1.6	61
92	Principal curves as skeletons of tubular objects: locally characterizing the structures of axons. <i>Neuroinformatics</i> , <b>2011</b> , 9, 181-91	3.2	59
91	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. <i>British Journal of Ophthalmology</i> , <b>2018</b> ,	5.5	53
90	Brain-computer interface with language model-electroencephalography fusion for locked-in syndrome. <i>Neurorehabilitation and Neural Repair</i> , <b>2014</b> , 28, 387-94	4.7	51
89	A framework for rapid visual image search using single-trial brain evoked responses. <i>Neurocomputing</i> , <b>2011</b> , 74, 2041-2051	5.4	50
88	Plus Disease in Retinopathy of Prematurity: A Continuous Spectrum of Vascular Abnormality as a Basis of Diagnostic Variability. <i>Ophthalmology</i> , <b>2016</b> , 123, 2338-2344	7.3	45
87	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. <i>JAMA Ophthalmology</i> , <b>2019</b> ,	3.9	43
86	Plus Disease in Retinopathy of Prematurity: Improving Diagnosis by Ranking Disease Severity and Using Quantitative Image Analysis. <i>Ophthalmology</i> , <b>2016</b> , 123, 2345-2351	7.3	43
85	Adversarial Deep Learning in EEG Biometrics. <i>IEEE Signal Processing Letters</i> , <b>2019</b> , 26, 710-714	3.2	37
84	Siamese neural networks for continuous disease severity evaluation and change detection in medical imaging. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 48	15.7	31
83	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. <i>JAMA Ophthalmology</i> , <b>2019</b> ,	3.9	31
82	Predicting aggression to others in youth with autism using a wearable biosensor. <i>Autism Research</i> , <b>2019</b> , 12, 1286-1296	5.1	28

81	Real-time automatic fetal brain extraction in fetal MRI by deep learning <b>2018</b> ,		27
80	Learning Invariant Representations from EEG via Adversarial Inference. <i>IEEE Access</i> , <b>2020</b> , 8, 27074-27085	5.5	25
79	Language-Model Assisted Brain Computer Interface for Typing: A Comparison of Matrix and Rapid Serial Visual Presentation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2015</b> , 23, 910-20	4.8	23
78	Rapid image analysis using neural signals <b>2008</b> ,		17
77	FlashType <sup>TM</sup> : A Context-Aware c-VEP-Based BCI Typing Interface Using EEG Signals. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2016</b> , 10, 932-941	7.5	16
76	Decoding of multichannel EEG activity from the visual cortex in response to pseudorandom binary sequences of visual stimuli. <i>International Journal of Imaging Systems and Technology</i> , <b>2011</b> , 21, 139-147	2.5	15
75	Self-Consistent Locally Defined Principal Surfaces <b>2007</b> ,		14
74	Classification Active Learning Based on Mutual Information. <i>Entropy</i> , <b>2016</b> , 18, 51	2.8	14
73	Recursive Bayesian Coding for BCIs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2017</b> , 25, 704-714	4.8	13
72	A Probabilistic Active Learning Algorithm Based on Fisher Information Ratio. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 2023-2029	13.3	12
71	Continuous Assessment of Gait Velocity in Parkinson's Disease from Unobtrusive Measurements <b>2007</b> ,		12
70	Predicting Imminent Aggression Onset in Minimally-Verbal Youth with Autism Spectrum Disorder Using Preceding Physiological Signals. <i>International Conference on Pervasive Computing Technologies for Healthcare: [proceedings]</i> , <b>2018</b> , 2018, 201-207	1	12
69	Transfer Learning in Brain-Computer Interfaces with Adversarial Variational Autoencoders <b>2019</b> ,		11
68	Classification and comparison via neural networks. <i>Neural Networks</i> , <b>2019</b> , 118, 65-80	9.1	11
67	Comparing supervised and unsupervised approaches to emotion categorization in the human brain, body, and subjective experience. <i>Scientific Reports</i> , <b>2020</b> , 10, 20284	4.9	11
66	A Bayesian Framework for Intent Detection and Stimulation Selection in SSVEP BCIs. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 743-747	3.2	10
65	Effects of Catalytic Action and Ligand Binding on Conformational Ensembles of Adenylate Kinase. <i>Biochemistry</i> , <b>2017</b> , 56, 4559-4567	3.2	10
64	A Robust Fusion Algorithm for Sensor Failure. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 755-758	3.2	10

63	Subject-specific abnormal region detection in traumatic brain injury using sparse model selection on high dimensional diffusion data. <i>Medical Image Analysis</i> , <b>2017</b> , 37, 56-65	15.4	9
62	<b>2010</b> ,		9
61	Probabilistic Simulation Framework for EEG-Based BCI Design. <i>Brain-Computer Interfaces</i> , <b>2016</b> , 3, 171-185		9
60	The Laplacian Classifier. <i>IEEE Transactions on Signal Processing</i> , <b>2007</b> , 55, 3262-3271	4.8	8
59	HANDS: a multimodal dataset for modeling toward human grasp intent inference in prosthetic hands. <i>Intelligent Service Robotics</i> , <b>2020</b> , 13, 179-185	2.6	8
58	An Active RBSE Framework to Generate Optimal Stimulus Sequences in a BCI for Spelling. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 5381-5392	4.8	7
57	Muscle Synergy-based Grasp Classification for Robotic Hand Prosthetics <b>2017</b> , 2017, 335-338		7
56	Constrained Maximum Likelihood Estimation of Relative Abundances of Protein Conformation in a Heterogeneous Mixture from Small Angle X-Ray Scattering Intensity Measurements. <i>IEEE Transactions on Signal Processing</i> , <b>2015</b> , 63, 5383-5394	4.8	7
55	A Fusion Approach for Image Triage using Single Trial ERP Detection <b>2007</b> ,		7
54	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> , <b>2018</b> , 5, 58-72	2	6
53	Disentangled Adversarial Autoencoder for Subject-Invariant Physiological Feature Extraction. <i>IEEE Signal Processing Letters</i> , <b>2020</b> , 27, 1565-1569	3.2	6
52	Information Theoretic Feature Transformation Learning for Brain Interfaces. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 69-78	5	6
51	Code-VEP vs. Eye Tracking: A Comparison Study. <i>Brain Sciences</i> , <b>2018</b> , 8,	3.4	6
50	On Analysis of Active Querying for Recursive State Estimation. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 743-747	3.2	5
49	Transfer learning using low-dimensional subspaces for EMG-based classification of hand posture. <i>International IEEE/EMBS Conference on Neural Engineering: [proceedings]</i> , <b>2019</b> , 2019, 1097-1100	1.3	5
48	From hand-perspective visual information to grasp type probabilities <b>2019</b> ,		5
47	Manifold Learning by Preserving Distance Orders. <i>Pattern Recognition Letters</i> , <b>2014</b> , 38, 120-131	4.7	5
46	Stimuli with opponent colors and higher bit rate enable higher accuracy for C-VEP BCI <b>2015</b> ,		5

45	Time-Series Prediction of Proximal Aggression Onset in Minimally-Verbal Youth with Autism Spectrum Disorder Using Physiological Biosignals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 5745-5748</i>	0.9	5
44	Stochastic Mutual Information Gradient Estimation for Dimensionality Reduction Networks. <i>Information Sciences, 2021, 570, 298-305</i>	7.7	5
43	Principal Curve Time Warping. <i>IEEE Transactions on Signal Processing, 2009, 57, 2041-2049</i>	4.8	4
42	EEG-GNN: Graph Neural Networks for Classification of Electroencephalogram (EEG) Signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 1061-1067</i>	0.9	4
41	SSVEP BCI and Eye Tracking Use by Individuals With Late-Stage ALS and Visual Impairments. <i>Frontiers in Human Neuroscience, 2020, 14, 595890</i>	3.3	4
40	Model-Based Deep Autoencoder Networks for Nonlinear Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters, 2021, 1-5</i>	4.1	4
39	Optimal Query Selection Using Multi-Armed Bandits. <i>IEEE Signal Processing Letters, 2018, 25, 1870-1874</i>	3.2	4
38	An Event-Driven AR-Process Model for EEG-Based BCIs With Rapid Trial Sequences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 798-804</i>	4.8	3
37	Biosensor prediction of aggression in youth with autism using kernel-based methods <b>2020,</b>		3
36	Motor Cortex Mapping using Active Gaussian Processes <b>2020, 2020,</b>		3
35	An experimental and computational framework for modeling multi-muscle responses to transcranial magnetic stimulation of the human motor cortex. <i>International IEEE/EMBS Conference on Neural Engineering: [proceedings], 2019, 2019, 1122-1125</i>	1.3	2
34	INFORMATION THEORETIC FEATURE PROJECTION FOR SINGLE-TRIAL BRAIN-COMPUTER INTERFACES <b>2017, 2017,</b>		2
33	A comparison of temporal windowing schemes for single-trial ERP detection <b>2009,</b>		2
32	Signal denoising using principal curves: Application to timewarping. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008,</i>	1.6	2
31	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, 2008, 2008, 4988-91</i>	0.9	2
30	A Nonparametric Approach for Active Contours. <i>Neural Networks (IJCNN), International Joint Conference on, 2007,</i>		2
29	Disentangled Adversarial Transfer Learning for Physiological Biosignals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 422-425</i>	0.9	2
28	Change Detection and Gaussian Process Inference in Piecewise Stationary Environments Under Noisy Inputs <b>2019,</b>		2

27	Hierarchical Graphical Models for Context-Aware Hybrid Brain-Machine Interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 1964-1967	0.9	2
26	A Parametric EEG Signal Model for BCIs with Rapid-Trial Sequences. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 118-122	0.9	2
25	Minor Surfaces are Boundaries of Mode-Based Clusters. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 891-895	3.2	1
24	Computationally Efficient Exact Calculation of Kernel Density Derivatives. <i>Journal of Signal Processing Systems</i> , <b>2015</b> , 81, 321-332	1.4	1
23	Dirichlet Priors for MAP Inference of Protein Conformation Abundances from SAXS. <i>Journal of Signal Processing Systems</i> , <b>2018</b> , 90, 167-174	1.4	1
22	Utilization of temporal trial dependency in ERP based BCIs <b>2014</b> ,		1
21	<b>2012</b> ,		1
20	CONSTRAINED SPECTRAL CLUSTERING FOR IMAGE SEGMENTATION <b>2012</b> , 2013, 1-6		1
19	Detecting mild cognitive loss with continuous monitoring of medication adherence. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	1
18	Geometric structure of sum-of-rank-1 decompositions for n-dimensional order-p symmetric tensors <b>2008</b> ,		1
17	A framework to optimize protein structure from solution scattering using ADMM and an elastic subdomain network <b>2016</b> ,		1
16	An active recursive state estimation framework for brain-interfaced typing systems. <i>Brain-Computer Interfaces</i> , <b>2019</b> , 6, 149-161	2	1
15	Robust Fusion of c-VEP and Gaze <b>2019</b> , 3,		1
14	Geometric Analysis of Uncertainty Sampling for Dense Neural Network Layer. <i>IEEE Signal Processing Letters</i> , <b>2021</b> , 28, 867-871	3.2	1
13	AutoBayes: Automated Bayesian Graph Exploration for Nuisance- Robust Inference. <i>IEEE Access</i> , <b>2021</b> , 9, 39955-39972	3.5	1
12	NetCut: Real-Time DNN Inference Using Layer Removal <b>2021</b> ,		1
11	EEG-based trial-by-trial texture classification during active touch. <i>Scientific Reports</i> , <b>2020</b> , 10, 20755	4.9	0
10	EEG-based texture roughness classification in active tactile exploration with invariant representation learning networks. <i>Biomedical Signal Processing and Control</i> , <b>2021</b> , 67, 102507-102507	4.9	0

9	Synergistic Activation Patterns of Hand Muscles in Left-and Right-Hand Dominant Individuals. <i>Journal of Human Kinetics</i> , <b>2021</b> , 76, 89-100	2.6	o
8	Universal Physiological Representation Learning With Soft-Disentangled Rateless Autoencoders. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 2928-2937	7.2	o
7	Efficient TMS-Based Motor Cortex Mapping Using Gaussian Process Active Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2021</b> , 29, 1679-1689	4.8	o
6	Classifications of Dynamic EMG in Hand Gesture and Unsupervised Grasp Motion Segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 359-364	0.9	o
5	Sample Complexity of Rank Regression Using Pairwise Comparisons. <i>Pattern Recognition</i> , <b>2022</b> , 108688	7.7	o
4	Target-Related Alpha Attenuation in a Brain-Computer Interface Rapid Serial Visual Presentation Calibration.. <i>Frontiers in Human Neuroscience</i> , <b>2022</b> , 16, 882557	3.3	o
3	Nonnegative non-redundant tensor decomposition. <i>Frontiers of Mathematics in China</i> , <b>2013</b> , 8, 41-61	0.8	
2	Adaptive motion estimation schemes using maximum mutual information criterion. <i>Wireless Communications and Mobile Computing</i> , <b>2007</b> , 7, 205-215	1.9	
1	Active recursive Bayesian inference using Rényi information measures. <i>Pattern Recognition Letters</i> , <b>2022</b> , 154, 90-98	4.7	