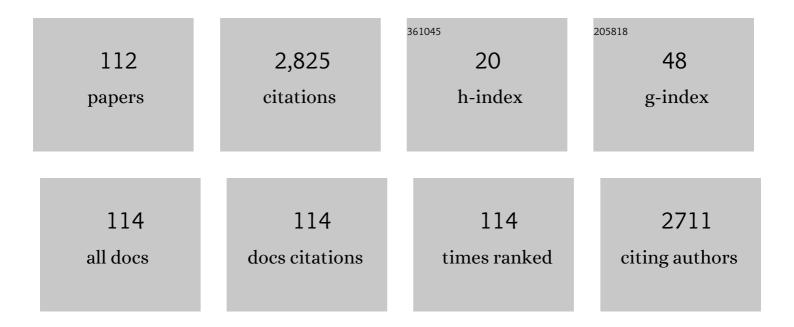
Deniz Erdogmus

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. JAMA Ophthalmology, 2018, 136, 803.	1.4	442
2	The Future of Human-in-the-Loop Cyber-Physical Systems. Computer, 2013, 46, 36-45.	1.2	265
3	Noninvasive Brain–Computer Interfaces for Augmentative and Alternative Communication. IEEE Reviews in Biomedical Engineering, 2014, 7, 31-49.	13.1	133
4	Feature extraction using information-theoretic learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1385-1392.	9.7	127
5	Asymmetric Loss Functions and Deep Densely-Connected Networks for Highly-Imbalanced Medical Image Segmentation: Application to Multiple Sclerosis Lesion Detection. IEEE Access, 2019, 7, 1721-1735.	2.6	120
6	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. British Journal of Ophthalmology, 2019, 103, 580-584.	2.1	114
7	RSVP keyboard: An EEG based typing interface. , 2012, , .		87
8	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. JAMA Ophthalmology, 2019, 137, 1022.	1.4	81
9	Principal Curves as Skeletons of Tubular Objects. Neuroinformatics, 2011, 9, 181-191.	1.5	77
10	Siamese neural networks for continuous disease severity evaluation and change detection in medical imaging. Npj Digital Medicine, 2020, 3, 48.	5.7	70
11	A framework for rapid visual image search using single-trial brain evoked responses. Neurocomputing, 2011, 74, 2041-2051.	3.5	69
12	Brain–Computer Interface With Language Model–Electroencephalography Fusion for Locked-In Syndrome. Neurorehabilitation and Neural Repair, 2014, 28, 387-394.	1.4	69
13	Plus Disease in Retinopathy of Prematurity. Ophthalmology, 2016, 123, 2338-2344.	2.5	68
14	Predicting aggression to others in youth with autism using a wearable biosensor. Autism Research, 2019, 12, 1286-1296.	2.1	64
15	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. JAMA Ophthalmology, 2019, 137, 1029.	1.4	63
16	Adversarial Deep Learning in EEG Biometrics. IEEE Signal Processing Letters, 2019, 26, 710-714.	2.1	63
17	Plus Disease in Retinopathy of Prematurity. Ophthalmology, 2016, 123, 2345-2351.	2.5	62
18	Learning Invariant Representations From EEG via Adversarial Inference. IEEE Access, 2020, 8, 27074-27085.	2.6	54

#	Article	IF	CITATIONS
19	Real-time automatic fetal brain extraction in fetal MRI by deep learning. , 2018, , .		50
20	FlashType <inline-formula> <tex-math notation="LaTeX">\$^{ext{TM}}\$</tex-math> </inline-formula> : A Context-Aware c-VEP-Based BCI Typing Interface Using EEG Signals. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 932-941.	7.3	34
21	Language-Model Assisted Brain Computer Interface for Typing: A Comparison of Matrix and Rapid Serial Visual Presentation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 910-920.	2.7	31
22	Transfer Learning in Brain-Computer Interfaces with Adversarial Variational Autoencoders. , 2019, , .		26
23	Comparing supervised and unsupervised approaches to emotion categorization in the human brain, body, and subjective experience. Scientific Reports, 2020, 10, 20284.	1.6	25
24	Rapid image analysis using neural signals. , 2008, , .		24
25	EEG-GNN: Graph Neural Networks for Classification of Electroencephalogram (EEG) Signals. , 2021, 2021, 1061-1067.		24
26	Continuous Assessment of Gait Velocity in Parkinson's Disease from Unobtrusive Measurements. , 2007, , .		20
27	Decoding of multichannel EEG activity from the visual cortex in response to pseudorandom binary sequences of visual stimuli. International Journal of Imaging Systems and Technology, 2011, 21, 139-147.	2.7	20
28	Self-Consistent Locally Defined Principal Surfaces. , 2007, , .		19
29	A Bayesian Framework for Intent Detection and Stimulation Selection in SSVEP BCIs. IEEE Signal Processing Letters, 2015, 22, 743-747.	2.1	19
30	Classification Active Learning Based on Mutual Information. Entropy, 2016, 18, 51.	1.1	19
31	Recursive Bayesian Coding for BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 704-714.	2.7	19
32	Predicting Imminent Aggression Onset in Minimally-Verbal Youth with Autism Spectrum Disorder Using Preceding Physiological Signals. , 2018, 2018, 201-207.		18
33	Classification and comparison via neural networks. Neural Networks, 2019, 118, 65-80.	3.3	18
34	Single-Examination Risk Prediction of Severe Retinopathy of Prematurity. Pediatrics, 2021, 148, .	1.0	18
35	HANDS: a multimodal dataset for modeling toward human grasp intent inference in prosthetic hands. Intelligent Service Robotics, 2020, 13, 179-185.	1.6	16
36	Disentangled Adversarial Autoencoder for Subject-Invariant Physiological Feature Extraction. IEEE Signal Processing Letters, 2020, 27, 1565-1569.	2.1	16

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#	Article	IF	CITATIONS
37	A Probabilistic Active Learning Algorithm Based on Fisher Information Ratio. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2023-2029.	9.7	15
38	Effects of simulated visual acuity and ocular motility impairments on SSVEP brain-computer interface performance: an experiment with Shuffle Speller. Brain-Computer Interfaces, 2018, 5, 58-72.	0.9	15
39	SSVEP BCI and Eye Tracking Use by Individuals With Late-Stage ALS and Visual Impairments. Frontiers in Human Neuroscience, 2020, 14, 595890.	1.0	15
40	A Robust Fusion Algorithm for Sensor Failure. IEEE Signal Processing Letters, 2013, 20, 755-758.	2.1	14
41	Piecewise linear cylinder models for 3-dimensional axon segmentation in Brainbow imagery. , 2010, , .		13
42	Effects of Catalytic Action and Ligand Binding on Conformational Ensembles of Adenylate Kinase. Biochemistry, 2017, 56, 4559-4567.	1.2	13
43	Model-Based Deep Autoencoder Networks for Nonlinear Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	13
44	Stochastic mutual information gradient estimation for dimensionality reduction networks. Information Sciences, 2021, 570, 298-305.	4.0	13
45	Probabilistic simulation framework for EEG-based BCI design. Brain-Computer Interfaces, 2016, 3, 171-185.	0.9	12
46	An Active RBSE Framework to Generate Optimal Stimulus Sequences in a BCI for Spelling. IEEE Transactions on Signal Processing, 2017, 65, 5381-5392.	3.2	12
47	Information Theoretic Feature Transformation Learning for Brain Interfaces. IEEE Transactions on Biomedical Engineering, 2020, 67, 69-78.	2.5	12
48	The Laplacian Classifier. IEEE Transactions on Signal Processing, 2007, 55, 3262-3271.	3.2	11
49	Subject-specific abnormal region detection in traumatic brain injury using sparse model selection on high dimensional diffusion data. Medical Image Analysis, 2017, 37, 56-65.	7.0	11
50	Constrained Maximum Likelihood Estimation of Relative Abundances of Protein Conformation in a Heterogeneous Mixture From Small Angle X-Ray Scattering Intensity Measurements. IEEE Transactions on Signal Processing, 2015, 63, 5383-5394.	3.2	10
51	Muscle Synergy-based Grasp Classification for Robotic Hand Prosthetics. , 2017, 2017, 335-338.		10
52	Transfer learning using low-dimensional subspaces for EMG-based classification of hand posture. , 2019, 2019, 1097-1100.		9
53	Universal Physiological Representation Learning With Soft-Disentangled Rateless Autoencoders. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2928-2937.	3.9	9
54	Signal denoising using principal curves: Application to timewarping. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	8

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#	Article	IF	CITATIONS
55	Time-Series Prediction of Proximal Aggression Onset in Minimally-Verbal Youth with Autism Spectrum Disorder Using Physiological Biosignals. , 2018, 2018, 5745-5748.		8
56	EEG-based trial-by-trial texture classification during active touch. Scientific Reports, 2020, 10, 20755.	1.6	8
57	A Fusion Approach for Image Triage using Single Trial ERP Detection. , 2007, , .		7
58	Stimuli with opponent colors and higher bit rate enable higher accuracy for C-VEP BCI. , 2015, , .		7
59	On Analysis of Active Querying for Recursive State Estimation. IEEE Signal Processing Letters, 2018, 25, 743-747.	2.1	7
60	Code-VEP vs. Eye Tracking: A Comparison Study. Brain Sciences, 2018, 8, 130.	1.1	7
61	Optimal Query Selection Using Multi-Armed Bandits. IEEE Signal Processing Letters, 2018, 25, 1870-1874.	2.1	7
62	From hand-perspective visual information to grasp type probabilities. , 2019, , .		6
63	Biosensor prediction of aggression in youth with autism using kernel-based methods. , 2020, , .		6
64	A comparison of temporal windowing schemes for single-trial ERP detection. , 2009, , .		5
65	Principal Curve Time Warping. IEEE Transactions on Signal Processing, 2009, 57, 2041-2049.	3.2	5
66	Manifold learning by preserving distance orders. Pattern Recognition Letters, 2014, 38, 120-131.	2.6	5
67	An experimental and computational framework for modeling multi-muscle responses to transcranial magnetic stimulation of the human motor cortex. , 2019, 2019, 1122-1125.		5
68	An Event-Driven AR-Process Model for EEG-Based BCIs With Rapid Trial Sequences. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 798-804.	2.7	5
69	AutoBayes: Automated Bayesian Graph Exploration for Nuisance- Robust Inference. IEEE Access, 2021, 9, 39955-39972.	2.6	5
70	On the use of generative deep neural networks to synthesize artificial multichannel EEG signals. , 2021, , .		5
71	Classifications of Dynamic EMG in Hand Gesture and Unsupervised Grasp Motion Segmentation. , 2021, 2021, 359-364.		5
72	A Nonparametric Approach for Active Contours. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	4

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#	Article	IF	CITATIONS
73	Towards End-to-End Control of a Robot Prosthetic Hand via Reinforcement Learning. , 2020, , .		4
74	Synergistic Activation Patterns of Hand Muscles in Left-and Right-Hand Dominant Individuals. Journal of Human Kinetics, 2021, 76, 89-100.	0.7	4
75	EEG-based texture roughness classification in active tactile exploration with invariant representation learning networks. Biomedical Signal Processing and Control, 2021, 67, 102507.	3.5	4
76	Motor cortex mapping using active gaussian processes. , 2020, 2020, .		4
77	Geometric structure of sum-of-rank-1 decompositions for n-dimensional order-p symmetric tensors. , 2008, , .		3
78	Hierarchical Graphical Models for Context-Aware Hybrid Brain-Machine Interfaces. , 2018, 2018, 1964-1967.		3
79	Disentangled Adversarial Transfer Learning for Physiological Biosignals. , 2020, 2020, 422-425.		3
80	Automatic Brain Image Segmentation for Evaluation of Experimental Ischemic Stroke Using Gradient vector flow and kernel annealing. Neural Networks (IJCNN), International Joint Conference on, 2007, ,	0.0	2
81	Detecting EEG evoked responses for target image search with mixed effect models. , 2008, 2008, 4988-91.		2
82	Computationally Efficient Exact Calculation of Kernel Density Derivatives. Journal of Signal Processing Systems, 2015, 81, 321-332.	1.4	2
83	Information theoretic feature projection for single-trial brain-computer interfaces. , 2017, 2017, .		2
84	A Parametric EEG Signal Model for BCIs with Rapid-Trial Sequences. , 2018, 2018, 118-122.		2
85	Change Detection and Gaussian Process Inference in Piecewise Stationary Environments Under Noisy Inputs. , 2019, , .		2
86	Robust Fusion of c-VEP and Gaze. , 2019, 3, 1-4.		2
87	NetCut: Real-Time DNN Inference Using Layer Removal. , 2021, , .		2
88	Efficient TMS-Based Motor Cortex Mapping Using Gaussian Process Active Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1679-1689.	2.7	2
89	Target-Related Alpha Attenuation in a Brain-Computer Interface Rapid Serial Visual Presentation Calibration. Frontiers in Human Neuroscience, 2022, 16, 882557.	1.0	2
90	Detecting mild cognitive loss with continuous monitoring of medication adherence. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1

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#	Article	IF	CITATIONS
91	Neural correlates of visual perception in rapid serial visual presentation paradigms. , 2012, , .		1
92	Constrained spectral clustering for image segmentation. , 2012, 2013, 1-6.		1
93	A SIFT-point distribution-based method for head pose estimation. , 2012, , .		1
94	Initial assessment of artifact filtering for RSVP Keyboard™. , 2013, , .		1
95	Utilization of temporal trial dependency in ERP based BCIs. , 2014, , .		1
96	Minor Surfaces are Boundaries of Mode-Based Clusters. IEEE Signal Processing Letters, 2015, 22, 891-895.	2.1	1
97	A framework to optimize protein structure from solution scattering using ADMM and an elastic subdomain network. , 2016, , .		1
98	Dirichlet Priors for MAP Inference of Protein Conformation Abundances from SAXS. Journal of Signal Processing Systems, 2018, 90, 167-174.	1.4	1
99	A History-based Stopping Criterion in Recursive Bayesian State Estimation. , 2019, , .		1
100	An active recursive state estimation framework for brain-interfaced typing systems. Brain-Computer Interfaces, 2019, 6, 149-161.	0.9	1
101	Geometric Analysis of Uncertainty Sampling for Dense Neural Network Layer. IEEE Signal Processing Letters, 2021, 28, 867-871.	2.1	1
102	Sample complexity of rank regression using pairwise comparisons. Pattern Recognition, 2022, 130, 108688.	5.1	1
103	Inference of Upcoming Human Grasp Using EMG During Reach-to-Grasp Movement. Frontiers in Neuroscience, 2022, 16, .	1.4	1
104	A Novel Switching Scheme Between Adaptive Information Algorithms. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
105	Adaptive motion estimation schemes using maximum mutual information criterion. Wireless Communications and Mobile Computing, 2007, 7, 205-215.	0.8	0
106	Nonnegative non-redundant tensor decomposition. Frontiers of Mathematics in China, 2013, 8, 41-61.	0.4	0
107	Target tracking via recursive Bayesian state estimation in radar networks. , 2017, , .		0

Human-in-the-Loop Prosthetic Robot Hand Control Using Particle Filters for Grasp Selection. , 2019, , .

#	Article	IF	CITATIONS
109	Dynamic System Identification For Guidance Of Stimulation Parameters In Haptic Simulation Environments. , 2019, , .		0
110	Optimal modality selection using information transfer rate for event related potential driven brain computer interfaces. , 2020, , .		0
111	Active recursive Bayesian inference using Rényi information measures. Pattern Recognition Letters, 2022, 154, 90-98.	2.6	Ο
112	Boosting Linear Logistic Regression for Single Trial ERP Detection in Rapid Serial Visual Presentation Tasks. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, ,	0.5	0