## **Deniz Erdogmus**

## List of Publications by Citations

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73
papers

2,166
citations

h-index

80
ext. papers

2,850
ext. citations

45
g-index

5.06
L-index

#	Paper	IF	Citations
73	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
72	Auto-Context Convolutional Neural Network (Auto-Net) for Brain Extraction in Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 2319-2330	11.7	113
71	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
70	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
69	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> , <b>2015</b> , 4, 5	3.3	76
68	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
67	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. <i>JAMA Ophthalmology</i> , <b>2016</b> , 134, 651-7	3.9	68
66	SNR-optimality of sum-of-squares reconstruction for phased-array magnetic resonance imaging. Journal of Magnetic Resonance, <b>2003</b> , 163, 121-3	3	62
65	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
64	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
63	From linear adaptive filtering to nonlinear information processing - The design and analysis of information processing systems. <i>IEEE Signal Processing Magazine</i> , <b>2006</b> , 23, 14-33	9.4	58
62	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
61	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
60	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
59	The Cauchy <b>B</b> chwarz divergence and Parzen windowing: Connections to graph theory and Mercer kernels. <i>Journal of the Franklin Institute</i> , <b>2006</b> , 343, 614-629	4	49
58	Spectral feature projections that maximize Shannon mutual information with class labels. <i>Pattern Recognition</i> , <b>2006</b> , 39, 1241-1252	7.7	48
57	Vector quantization using information theoretic concepts. <i>Natural Computing</i> , <b>2005</b> , 4, 39-51	1.3	48

## (2005-2004)

56	Minimax mutual information approach for independent component analysis. <i>Neural Computation</i> , <b>2004</b> , 16, 1235-52	2.9	45
55	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
54	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
53	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
52	Blind source separation using Renyi's Emarginal entropies. <i>Neurocomputing</i> , <b>2002</b> , 49, 25-38	5.4	40
51	Mean shift spectral clustering. Pattern Recognition, 2008, 41, 1924-1938	7.7	38
50	Lower and Upper Bounds for Misclassification Probability Based on Renyi's Information. <i>Journal of Signal Processing Systems</i> , <b>2004</b> , 37, 305-317		38
49	Adversarial Deep Learning in EEG Biometrics. <i>IEEE Signal Processing Letters</i> , <b>2019</b> , 26, 710-714	3.2	37
48	Modeling and inverse controller design for an unmanned aerial vehicle based on the self-organizing map. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 445-60		36
47	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>Ophthalmology Retina</i> , <b>2019</b> , 3, 444-450	3.8	31
46	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
45	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
44	An analysis of entropy estimators for blind source separation. Signal Processing, 2006, 86, 182-194	4.4	29
43	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
42	Real-Time Deep Pose Estimation With Geodesic Loss for Image-to-Template Rigid Registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 470-481	11.7	27
41	Information cut for clustering using a gradient descent approach. Pattern Recognition, 2007, 40, 796-80	16 <sub>7.7</sub>	26
40	Learning Invariant Representations from EEG via Adversarial Inference. IEEE Access, 2020, 8, 27074-270	<b>85</b> .5	25
39	A mutual information extension to the matched filter. <i>Signal Processing</i> , <b>2005</b> , 85, 927-935	4.4	23

38	Some Equivalences between Kernel Methods and Information Theoretic Methods. <i>Journal of Signal Processing Systems</i> , <b>2006</b> , 45, 49-65		20
37	Measuring the signal-to-noise ratio in magnetic resonance imaging: a caveat. <i>Signal Processing</i> , <b>2004</b> , 84, 1035-1040	4.4	19
36	Quasi-sliding mode control strategy based on multiple-linear models. <i>Neurocomputing</i> , <b>2007</b> , 70, 960-9	7 <b>4</b> 5.4	18
35	Optimizing the Cauchy-Schwarz PDF Distance for Information Theoretic, Non-parametric Clustering. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 34-45	0.9	17
34	Image construction methods for phased array magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 20, 306-14	5.6	16
33	Self-Consistent Locally Defined Principal Surfaces 2007,		14
32	Classification and comparison via neural networks. Neural Networks, 2019, 118, 65-80	9.1	11
31	Beyond second-order statistics for learning: A pairwise interaction model for entropy estimation. <i>Natural Computing</i> , <b>2002</b> , 1, 85-108	1.3	11
30	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> , <b>2020</b> , 9, 10	3.3	9
29	2010,		9
29 28		7-3	9
	<b>2010,</b> Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.		
28	2010,  Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.  Ophthalmology, 2021, 128, 1070-1076		9
28	2010,  Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.  Ophthalmology, 2021, 128, 1070-1076  Probabilistic Simulation Framework for EEG-Based BCI Design. Brain-Computer Interfaces, 2016, 3, 171-		9
28 27 26	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.  Ophthalmology, 2021, 128, 1070-1076  Probabilistic Simulation Framework for EEG-Based BCI Design. Brain-Computer Interfaces, 2016, 3, 171-  A Fusion Approach for Image Triage using Single Trial ERP Detection 2007,  Stochastic error whitening algorithm for linear filter estimation with noisy data. Neural Networks,	185	9 9 7
28 27 26 25	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.  Ophthalmology, 2021, 128, 1070-1076  Probabilistic Simulation Framework for EEG-Based BCI Design. Brain-Computer Interfaces, 2016, 3, 171-  A Fusion Approach for Image Triage using Single Trial ERP Detection 2007,  Stochastic error whitening algorithm for linear filter estimation with noisy data. Neural Networks, 2003, 16, 873-80  A Neural Network Perspective to Extended Luenberger Observers. Measurement and Control, 2002,	1 <b>85</b> 9.1	<ul><li>9</li><li>9</li><li>7</li><li>7</li></ul>
28 27 26 25 24	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale.  Ophthalmology, 2021, 128, 1070-1076  Probabilistic Simulation Framework for EEG-Based BCI Design. Brain-Computer Interfaces, 2016, 3, 171-  A Fusion Approach for Image Triage using Single Trial ERP Detection 2007,  Stochastic error whitening algorithm for linear filter estimation with noisy data. Neural Networks, 2003, 16, 873-80  A Neural Network Perspective to Extended Luenberger Observers. Measurement and Control, 2002, 35, 10-16  Effects of simulated visual acuity and ocular motility impairments on SSVEP brain-computer	9.1	<ul><li>9</li><li>7</li><li>7</li></ul>

20	Information Theoretic Feature Transformation Learning for Brain Interfaces. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 69-78	5	6
19	Information Theoretic Feature Selection and Projection. Studies in Computational Intelligence, 2008, 1-2	2 <b>2</b> 0.8	5
18	Stochastic Mutual Information Gradient Estimation for Dimensionality Reduction Networks. <i>Information Sciences</i> , <b>2021</b> , 570, 298-305	7.7	5
17	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. <i>Ophthalmology Retina</i> , <b>2020</b> , 4, 1016-1021	3.8	4
16	SSVEP BCI and Eye Tracking Use by Individuals With Late-Stage ALS and Visual Impairments. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 595890	3.3	4
15	Biosensor prediction of aggression in youth with autism using kernel-based methods 2020,		3
14	INFORMATION THEORETIC FEATURE PROJECTION FOR SINGLE-TRIAL BRAIN-COMPUTER INTERFACES <b>2017</b> , 2017,		2
13	Optimal set of EEG electrodes for rapid serial visual presentation. <i>Annual International Conference</i> of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, <b>2010</b> , 2010, 4335-8	0.9	2
12	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> , <b>2008</b> , 2008, 4988-91	0.9	2
11	Classification with EEC, Divergence Measures, and Error Bounds. <i>Information Science and Statistics</i> , <b>2010</b> , 219-261		2
10	2012,		1
10	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information Science and Statistics</i> , <b>2010</b> , 103-140		1
	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information</i>	0.9	
9	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information Science and Statistics</i> , <b>2010</b> , 103-140  Minimax Mutual Information Approach for ICA of Complex-Valued Linear Mixtures. <i>Lecture Notes in</i>	0.9	1
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9 8 7	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information Science and Statistics</i> , <b>2010</b> , 103-140  Minimax Mutual Information Approach for ICA of Complex-Valued Linear Mixtures. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 311-318  Zero-Entropy Minimization for Blind Extraction of Bounded Sources (BEBS). <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 747-754  EEG-based texture roughness classification in active tactile exploration with invariant	0.9	1 1
9 8 7 6	Adaptive Information Filtering with Error Entropy and Error Correntropy Criteria. <i>Information Science and Statistics</i> , <b>2010</b> , 103-140  Minimax Mutual Information Approach for ICA of Complex-Valued Linear Mixtures. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 311-318  Zero-Entropy Minimization for Blind Extraction of Bounded Sources (BEBS). <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 747-754  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  Universal Physiological Representation Learning With Soft-Disentangled Rateless Autoencoders.	0.9	1 1 0

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