

Justin Dauwels

List of Publications by Citations

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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.

129
papers

2,269
citations

23
h-index

44
g-index

146
ext. papers

2,996
ext. citations

4.9
avg, IF

5.24
L-index

#	Paper	IF	Citations
129	The Factor Graph Approach to Model-Based Signal Processing. <i>Proceedings of the IEEE</i> , 2007 , 95, 1295-1323	14.3	270
128	Innovative diagnostic tools for early detection of Alzheimer's disease. <i>Alzheimers and Dementia</i> , 2015 , 11, 561-78	1.2	146
127	Predicting neurosurgical outcomes in focal epilepsy patients using computational modelling. <i>Brain</i> , 2017 , 140, 319-332	11.2	131
126	Spatiotemporal Patterns in Large-Scale Traffic Speed Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 794-804	6.1	122
125	Transport of Intensity phase imaging by intensity spectrum fitting of exponentially spaced defocus planes. <i>Optics Express</i> , 2014 , 22, 10661-74	3.3	99
124	Slowing and Loss of Complexity in Alzheimer's EEG: Two Sides of the Same Coin?. <i>International Journal of Alzheimers Disease</i> , 2011 , 2011, 539621	3.7	96
123	Matrix and Tensor Based Methods for Missing Data Estimation in Large Traffic Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1816-1825	6.1	83
122	A computational study of stimulus driven epileptic seizure abatement. <i>PLoS ONE</i> , 2014 , 9, e114316	3.7	72
121	Action-Stage Emphasized Spatio-Temporal VLAD for Video Action Recognition. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	60
120	Imaging the distribution of transient viscosity after the 2016 7.1 Kumamoto earthquake. <i>Science</i> , 2017 , 356, 163-167	33.3	57
119	Optimal control based seizure abatement using patient derived connectivity. <i>Frontiers in Neuroscience</i> , 2015 , 9, 202	5.1	53
118	Semantic Cues Enhanced Multimodality Multistream CNN for Action Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1423-1437	6.4	46
117	A two-dimensional approach for lossless EEG compression. <i>Biomedical Signal Processing and Control</i> , 2011 , 6, 387-394	4.9	46
116	EPILEPTIFORM SPIKE DETECTION VIA CONVOLUTIONAL NEURAL NETWORKS. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2016 , 2016, 754-758	1.6	45
115	Structural connectivity based whole brain modelling in epilepsy. <i>Journal of Neuroscience Methods</i> , 2014 , 236, 51-7	3	36
114	Development of Expert-Level Automated Detection of Epileptiform Discharges During Electroencephalogram Interpretation. <i>JAMA Neurology</i> , 2020 , 77, 103-108	17.2	33
113	Low-dimensional models for missing data imputation in road networks 2013 ,		32

112	Automated Detection of Interictal Epileptiform Discharges from Scalp Electroencephalograms by Convolutional Neural Networks. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050030	6.2	31
111	Low-Dimensional Models for Compressed Sensing and Prediction of Large-Scale Traffic Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2949-2954	6.1	31
110	A review on microelectrode recording selection of features for machine learning in deep brain stimulation surgery for Parkinson's disease. <i>Clinical Neurophysiology</i> , 2019 , 130, 145-154	4.3	29
109	Deep learning-based classification for brain-computer interfaces 2017 ,		28
108	Montreal Cognitive Assessment as a screening instrument for cognitive impairments in schizophrenia. <i>Schizophrenia Research</i> , 2018 , 199, 58-63	3.6	27
107	Interrater Reliability of Experts in Identifying Interictal Epileptiform Discharges in Electroencephalograms. <i>JAMA Neurology</i> , 2020 , 77, 49-57	17.2	24
106	An Integrated Simulation Environment for Testing V2X Protocols and Applications. <i>Procedia Computer Science</i> , 2016 , 80, 2042-2052	1.6	22
105	Interictal epileptiform discharge characteristics underlying expert interrater agreement. <i>Clinical Neurophysiology</i> , 2017 , 128, 1994-2005	4.3	21
104	Non-verbal speech cues as objective measures for negative symptoms in patients with schizophrenia. <i>PLoS ONE</i> , 2019 , 14, e0214314	3.7	19
103	Partially coherent phase imaging with simultaneous source recovery. <i>Biomedical Optics Express</i> , 2015 , 6, 257-65	3.5	19
102	Data compression techniques for urban traffic data 2013 ,		19
101	A fast machine learning approach to facilitate the detection of interictal epileptiform discharges in the scalp electroencephalogram. <i>Journal of Neuroscience Methods</i> , 2019 , 326, 108362	3	18
100	A theta-band EEG based index for early diagnosis of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2015 , 43, 1175-84	4.3	16
99	On the synchrony of steady state visual evoked potentials and oscillatory burst events. <i>Cognitive Neurodynamics</i> , 2009 , 3, 251-61	4.2	16
98	Carbon footprinting of universities worldwide: Part I—Objective comparison by standardized metrics. <i>Environmental Sciences Europe</i> , 2021 , 33,	5	16
97	A deep Learning Scheme for Automatic Seizure Detection from Long-Term Scalp EEG 2018 ,		16
96	A model of stimulus induced epileptic spike-wave discharges 2013 ,		15
95	Wavelets on graphs with application to transportation networks 2014 ,		15

94	EEG hyperscanning study of inter-brain synchrony during cooperative and competitive interaction 2016,		14
93	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 1867-1876	6.1	14
92	Reduced-Memory Decoding of Low-Density Lattice Codes. <i>IEEE Communications Letters</i> , 2010 , 14, 659-661		13
91	Computer modelling of connectivity change suggests epileptogenesis mechanisms in idiopathic generalised epilepsy. <i>NeuroImage: Clinical</i> , 2019 , 21, 101655	5.3	12
90	Non-verbal speech analysis of interviews with schizophrenic patients 2016,		12
89	Bayesian Support Vector Regression for traffic speed prediction with error bars 2013,		12
88	Alternative Techniques of Neural Signal Processing in Neuroengineering. <i>Cognitive Computation</i> , 2015 , 7, 1-2	4.4	11
87	Life cycle energy assessment of university buildings in tropical climate. <i>Journal of Cleaner Production</i> , 2019 , 239, 117930	10.3	11
86	Merging and splitting maneuver of platoons by means of a novel PID controller 2017,		11
85	Predicting traffic speed in urban transportation subnetworks for multiple horizons 2014,		11
84	Prediction of Negative Symptoms of Schizophrenia from Emotion Related Low-Level Speech Signals 2018,		11
83	Multi-Objective Optimal Sensor Placement for Low-Pressure Gas Distribution Networks. <i>IEEE Sensors Journal</i> , 2018 , 18, 6660-6668	4	10
82	3D Human motion tracking by exemplar-based conditional particle filter. <i>Signal Processing</i> , 2015 , 110, 164-177	4.4	10
81	Sparse ACEKF for phase reconstruction. <i>Optics Express</i> , 2013 , 21, 18125-37	3.3	10
80	2012,		9
79	Automated detection of subthalamic nucleus in deep brain stimulation surgery for Parkinson's disease using microelectrode recordings and wavelet packet features. <i>Journal of Neuroscience Methods</i> , 2020 , 343, 108826	3	8
78	Pressure and flow variation in gas distribution pipeline for leak detection 2016,		8
77	Leak detection in low-pressure gas distribution networks by probabilistic methods. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 58, 69-79	4.6	8

76	Context based pedestrian intention prediction using factored latent dynamic conditional random fields 2017 ,		8
75	Extreme-Value Graphical Models With Multiple Covariates. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5734-5747	4.8	8
74	A low-power, reconfigurable smart sensor system for EEG acquisition and classification 2012 ,		8
73	Inferring Brain Networks through Graphical Models with Hidden Variables. <i>Lecture Notes in Computer Science</i> , 2012 , 194-201	0.9	8
72	Diagnostic classification of autism using resting-state fMRI data improves with full correlation functional brain connectivity compared to partial correlation. <i>Journal of Neuroscience Methods</i> , 2020 , 345, 108884	3	8
71	Effect of Subliminal Lexical Priming on the Subjective Perception of Images: A Machine Learning Approach. <i>PLoS ONE</i> , 2016 , 11, e0148332	3.7	8
70	Outlier-insensitive Kalman smoothing and marginal message passing 2016 ,		7
69	Outlier-insensitive Bayesian inference for linear inverse problems (OutIBI) with applications to space geodetic data. <i>Geophysical Journal International</i> , 2020 , 221, 334-350	2.6	7
68	Deep Reinforcement Learning for Traveling Salesman Problem with Time Windows and Rejections 2020 ,		7
67	Context Model for Pedestrian Intention Prediction Using Factored Latent-Dynamic Conditional Random Fields. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-12	6.1	6
66	On Centralized and Decentralized Architectures for Traffic Applications. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1988-1997	6.1	6
65	Copula Gaussian graphical model for discrete data 2013 ,		6
64	Tensor factorization for missing data imputation in medical questionnaires 2012 ,		6
63	Quantifying statistical interdependence, part III: $N > 2$ point processes. <i>Neural Computation</i> , 2012 , 24, 408-54	2.9	6
62	Multicell migration tracking within angiogenic networks by deep learning-based segmentation and augmented Bayesian filtering. <i>Journal of Medical Imaging</i> , 2018 , 5, 024005	2.6	6
61	Prediction of Negative Symptoms of Schizophrenia from Objective Linguistic, Acoustic and Non-verbal Conversational Cues 2018 ,		6
60	Learning to Predict Pedestrian Intention via Variational Tracking Networks 2018 ,		6
59	Variational Bayesian dynamic compressive sensing 2016 ,		5

58	Real-time sociometrics from audio-visual features for two-person dialogs 2015 ,		5
57	Real-Time Comprehensive Sociometrics for Two-Person Dialogs. <i>Lecture Notes in Computer Science</i> , 2013 , 196-208	0.9	5
56	Testbed for real-time monitoring of leak in low pressure gas pipeline 2016 ,		5
55	Humanoid co-workers: How is it like to work with a robot? 2019 ,		5
54	Dynamic Prediction of the Incident Duration Using Adaptive Feature Set. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 4019-4031	6.1	5
53	Rapid Annotation of Seizures and Interictal-ictal Continuum EEG Patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 3394-3397	0.9	5
52	. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 571-586	4.8	4
51	Handling missing data in medical questionnaires using tensor decompositions 2011 ,		4
50	Audio representations of multi-channel EEG: a new tool for diagnosis of brain disorders. <i>American Journal of Neurodegenerative Disease</i> , 2012 , 1, 292-304	2.5	4
49	. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1120-1128	8.2	4
48	Analysis of Packet drops and Channel Crowding in Vehicle Platooning using V2X communication 2018 ,		4
47	Inferring the Climate in Classrooms from Audio and Video Recordings: A Machine Learning Approach 2018 ,		4
46	GPU-Accelerated Tabu Search Algorithm for Dial-A-Ride Problem 2018 ,		4
45	Automated tracking and quantification of angiogenic vessel formation in 3D microfluidic devices. <i>PLoS ONE</i> , 2017 , 12, e0186465	3.7	3
44	FAST AND EFFICIENT REJECTION OF BACKGROUND WAVEFORMS IN INTERICTAL EEG. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2016 , 2016, 744-748	1.6	3
43	CLUSTERING OF INTERICTAL SPIKES BY DYNAMIC TIME WARPING AND AFFINITY PROPAGATION. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2016 , 2016, 749-753	1.6	3
42	Modeling Spatio-Temporal Extreme Events Using Graphical Models. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 1101-1116	4.8	3
41	Estimating travel time distributions using copula graphical lasso 2017 ,		3

40	Assessment and prediction of negative symptoms of schizophrenia from RGB+D movement signals 2017,		3
39	Travel Time Estimation Using Speed Predictions 2015,		3
38	Development of optimal stimuli in a heterogeneous model of epileptic spike-wave oscillations 2014		3
37	Extracting commuting patterns in railway networks through matrix decompositions 2014,		3
36	Modeling spatial extremes via ensemble-of-trees of pairwise copulas 2014,		3
35	Modeling Perception Errors towards Robust Decision Making in Autonomous Vehicles 2020,		3
34	The Impact of Negative Symptoms and Neurocognition on Functioning in MDD and Schizophrenia. <i>Frontiers in Psychiatry</i> , 2021 , 12, 648108	5	3
33	Bayesian detection of leaks in gas distribution networks 2016,		3
32	Pedestrians' Acceptance of Personal Mobility Devices on the Shared Path: A Structural Equation Modelling Approach 2019,		3
31	A User Study of a Humanoid Robot as a Social Mediator for Two-Person Conversations. <i>International Journal of Social Robotics</i> , 2020 , 12, 1031-1044	4	3
30	Efficient Stochastic Subgradient Descent Algorithms for High-dimensional Semi-sparse Graphical Model Selection 2019,		2
29	A Generic GPU-Accelerated Framework for the Dial-A-Ride Problem. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-16	6.1	2
28	Spatio-temporal graphical models for extreme events 2014,		2
27	Computational synchronization of microarray data with application to <i>Plasmodium falciparum</i> . <i>Proteome Science</i> , 2012 , 10 Suppl 1, S10	2.6	2
26	Development of a simulation platform to implement vehicle routing algorithms for large scale fleet management systems 2017,		2
25	Compressed prediction of large-scale urban traffic 2014,		2
24	Graphical models for localization of the seizure focus from interictal intracranial EEG 2011,		2
23	Predicting Real-World Functioning in Schizophrenia: The Relative Contributions of Neurocognition, Functional Capacity, and Negative Symptoms. <i>Frontiers in Psychiatry</i> , 2021 , 12, 639536	5	2

22	Variational bayes learning of time-varying graphical models 2016 ,		2
21	Predicting the duration of non-recurring road incidents by cluster-specific models 2016 ,		2
20	Machine learning method to ensure robust decision-making of AVs 2019 ,		2
19	Towards a data-driven behavioral approach to prediction of insider-threat 2018 ,		2
18	Automatic Verbal Analysis of Interviews with Schizophrenic Patients 2018 ,		2
17	Multi-atomic Annealing Heuristic for the Dial-a-ride Problem 2018 ,		2
16	Factored Latent-Dynamic Conditional Random Fields for single and multi-label sequence modeling. <i>Pattern Recognition</i> , 2022 , 122, 108236	7.7	2
15	Water ingress detection in low-pressure gas pipelines using vibration sensors 2017 ,		1
14	Estimation of travel time from taxi GPS data 2017 ,		1
13	Variational Bayes learning of multiscale graphical models 2015 ,		1
12	Extreme-value graphical models with multiple covariates 2014 ,		1
11	Comparison of different Bayesian methods for estimating error bars with incident duration prediction. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 1-17	3.2	1
10	. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 6468-6482	4.8	1
9	Solving Time-dependent Dial-a-ride Problem using Greedy Ant Colony Optimization 2018 ,		1
8	CLASSIFIER CASCADE TO AID IN DETECTION OF EPILEPTIFORM TRANSIENTS IN INTERICTAL EEG. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2018 , 2018, 970-974	1.6	1
7	Carbon Footprinting of Universities Worldwide Part II: First Quantification of Complete Embodied Impacts of Two Campuses in Germany and Singapore. <i>Sustainability</i> , 2022 , 14, 3865	3.6	1
6	Reply: Computer models to inform epilepsy surgery strategies: prediction of postoperative outcome. <i>Brain</i> , 2017 , 140, e31	11.2	0
5	. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 219-234	2.6	0

4	Comparative study of emotion recognition and theory of mind between major depressive disorder and schizophrenia. <i>Journal of Affective Disorders</i> , 2021 , 295, 1445-1448	6.6	o
3	The effects of cell asynchrony on time-series data: an analysis on gene expression level of <i>Plasmodium falciparum</i> . <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5224-7	0.9	
2	Computational Approaches for Diagnosis and Monitoring of Epilepsy from Scalp EEG 2022 , 1-31		
1	Rapid annotation of seizures and interictal-ictal-injury continuum EEG patterns. <i>Journal of Neuroscience Methods</i> , 2021 , 347, 108956	3	