

Justin Dauwels

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.

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	Computational Approaches for Diagnosis and Monitoring of Epilepsy from Scalp EEG 2022 , 1-31		
128	Factored Latent-Dynamic Conditional Random Fields for single and multi-label sequence modeling. <i>Pattern Recognition</i> , 2022 , 122, 108236	7.7	2
127	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
126	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
125	Carbon footprinting of universities worldwide: Part I Objective comparison by standardized metrics. <i>Environmental Sciences Europe</i> , 2021 , 33,	5	16
124	The Impact of Negative Symptoms and Neurocognition on Functioning in MDD and Schizophrenia. <i>Frontiers in Psychiatry</i> , 2021 , 12, 648108	5	3
123	Rapid annotation of seizures and interictal-ictal-injury continuum EEG patterns. <i>Journal of Neuroscience Methods</i> , 2021 , 347, 108956	3	
122	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	0
121	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
120	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
119	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
118	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
117	Modeling Perception Errors towards Robust Decision Making in Autonomous Vehicles 2020 ,		3
116	Development of Expert-Level Automated Detection of Epileptiform Discharges During Electroencephalogram Interpretation. <i>JAMA Neurology</i> , 2020 , 77, 103-108	17.2	33
115	Interrater Reliability of Experts in Identifying Interictal Epileptiform Discharges in Electroencephalograms. <i>JAMA Neurology</i> , 2020 , 77, 49-57	17.2	24
114	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
113	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

112	Deep Reinforcement Learning for Traveling Salesman Problem with Time Windows and Rejections 2020 ,		7
111	. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 219-234	2.6	0
110	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
109	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 1867-1876	6.1	14
108	Computer modelling of connectivity change suggests epileptogenesis mechanisms in idiopathic generalised epilepsy. <i>NeuroImage: Clinical</i> , 2019 , 21, 101655	5.3	12
107	Efficient Stochastic Subgradient Descent Algorithms for High-dimensional Semi-sparse Graphical Model Selection 2019 ,		2
106	Non-verbal speech cues as objective measures for negative symptoms in patients with schizophrenia. <i>PLoS ONE</i> , 2019 , 14, e0214314	3.7	19
105	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
104	Life cycle energy assessment of university buildings in tropical climate. <i>Journal of Cleaner Production</i> , 2019 , 239, 117930	10.3	11
103	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
102	Humanoid co-workers: How is it like to work with a robot? 2019 ,		5
101	Machine learning method to ensure robust decision-making of AVs 2019 ,		2
100	. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 6468-6482	4.8	1
99	Pedestrians' Acceptance of Personal Mobility Devices on the Shared Path: A Structural Equation Modelling Approach 2019 ,		3
98	. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1120-1128	8.2	4
97	Action-Stage Emphasized Spatio-Temporal VLAD for Video Action Recognition. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	60
96	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
95	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

94	Montreal Cognitive Assessment as a screening instrument for cognitive impairments in schizophrenia. <i>Schizophrenia Research</i> , 2018 , 199, 58-63	3.6	27
93	Multi-Objective Optimal Sensor Placement for Low-Pressure Gas Distribution Networks. <i>IEEE Sensors Journal</i> , 2018 , 18, 6660-6668	4	10
92	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
91	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
90	Analysis of Packet drops and Channel Crowding in Vehicle Platooning using V2X communication 2018 ,		4
89	Prediction of Negative Symptoms of Schizophrenia from Objective Linguistic, Acoustic and Non-verbal Conversational Cues 2018 ,		6
88	A deep Learning Scheme for Automatic Seizure Detection from Long-Term Scalp EEG 2018 ,		16
87	Inferring the Climate in Classrooms from Audio and Video Recordings: A Machine Learning Approach 2018 ,		4
86	Towards a data-driven behavioral approach to prediction of insider-threat 2018 ,		2
85	Automatic Verbal Analysis of Interviews with Schizophrenic Patients 2018 ,		2
84	Solving Time-dependent Dial-a-ride Problem using Greedy Ant Colony Optimization 2018 ,		1
83	Learning to Predict Pedestrian Intention via Variational Tracking Networks 2018 ,		6
82	GPU-Accelerated Tabu Search Algorithm for Dial-A-Ride Problem 2018 ,		4
81	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
80	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
79	Multi-atomic Annealing Heuristic for the Dial-a-ride Problem 2018 ,		2
78	Prediction of Negative Symptoms of Schizophrenia from Emotion Related Low-Level Speech Signals 2018 ,		11
77	Imaging the distribution of transient viscosity after the 2016 7.1 Kumamoto earthquake. <i>Science</i> , 2017 , 356, 163-167	33.3	57

76	Predicting neurosurgical outcomes in focal epilepsy patients using computational modelling. <i>Brain</i> , 2017 , 140, 319-332	11.2	131
75	Automated tracking and quantification of angiogenic vessel formation in 3D microfluidic devices. <i>PLoS ONE</i> , 2017 , 12, e0186465	3.7	3
74	Water ingress detection in low-pressure gas pipelines using vibration sensors 2017 ,		1
73	Interictal epileptiform discharge characteristics underlying expert interrater agreement. <i>Clinical Neurophysiology</i> , 2017 , 128, 1994-2005	4.3	21
72	Reply: Computer models to inform epilepsy surgery strategies: prediction of postoperative outcome. <i>Brain</i> , 2017 , 140, e31	11.2	0
71	. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 571-586	4.8	4
70	Estimation of travel time from taxi GPS data 2017 ,		1
69	Deep learning-based classification for brain-computer interfaces 2017 ,		28
68	Estimating travel time distributions using copula graphical lasso 2017 ,		3
67	Development of a simulation platform to implement vehicle routing algorithms for large scale fleet management systems 2017 ,		2
66	Assessment and prediction of negative symptoms of schizophrenia from RGB+D movement signals 2017 ,		3
65	Merging and splitting maneuver of platoons by means of a novel PID controller 2017 ,		11
64	Context based pedestrian intention prediction using factored latent dynamic conditional random fields 2017 ,		8
63	Variational Bayesian dynamic compressive sensing 2016 ,		5
62	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
61	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
60	Pressure and flow variation in gas distribution pipeline for leak detection 2016 ,		8
59	Outlier-insensitive Kalman smoothing and marginal message passing 2016 ,		7

58	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
57	Non-verbal speech analysis of interviews with schizophrenic patients 2016 ,		12
56	On Centralized and Decentralized Architectures for Traffic Applications. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1988-1997	6.1	6
55	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
54	Modeling Spatio-Temporal Extreme Events Using Graphical Models. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 1101-1116	4.8	3
53	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
52	Bayesian detection of leaks in gas distribution networks 2016 ,		3
51	Variational bayes learning of time-varying graphical models 2016 ,		2
50	EEG hyperscanning study of inter-brain synchrony during cooperative and competitive interaction 2016 ,		14
49	Testbed for real-time monitoring of leak in low pressure gas pipeline 2016 ,		5
48	Predicting the duration of non-recurring road incidents by cluster-specific models 2016 ,		2
47	An Integrated Simulation Environment for Testing V2X Protocols and Applications. <i>Procedia Computer Science</i> , 2016 , 80, 2042-2052	1.6	22
46	Alternative Techniques of Neural Signal Processing in Neuroengineering. <i>Cognitive Computation</i> , 2015 , 7, 1-2	4.4	11
45	Partially coherent phase imaging with simultaneous source recovery. <i>Biomedical Optics Express</i> , 2015 , 6, 257-65	3.5	19
44	Innovative diagnostic tools for early detection of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2015 , 11, 561-78	1.2	146
43	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
42	Optimal control based seizure abatement using patient derived connectivity. <i>Frontiers in Neuroscience</i> , 2015 , 9, 202	5.1	53
41	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

40	Real-time sociometrics from audio-visual features for two-person dialogs 2015 ,		5
39	Variational Bayes learning of multiscale graphical models 2015 ,		1
38	Travel Time Estimation Using Speed Predictions 2015 ,		3
37	3D Human motion tracking by exemplar-based conditional particle filter. <i>Signal Processing</i> , 2015 , 110, 164-177	4.4	10
36	Structural connectivity based whole brain modelling in epilepsy. <i>Journal of Neuroscience Methods</i> , 2014 , 236, 51-7	3	36
35	Spatio-temporal graphical models for extreme events 2014 ,		2
34	Spatiotemporal Patterns in Large-Scale Traffic Speed Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 794-804	6.1	122
33	Development of optimal stimuli in a heterogeneous model of epileptic spike-wave oscillations 2014 ,		3
32	Compressed prediction of large-scale urban traffic 2014 ,		2
31	Extracting commuting patterns in railway networks through matrix decompositions 2014 ,		3
30	Predicting traffic speed in urban transportation subnetworks for multiple horizons 2014 ,		11
29	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
28	Extreme-Value Graphical Models With Multiple Covariates. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5734-5747	4.8	8
27	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	
26	Wavelets on graphs with application to transportation networks 2014 ,		15
25	Extreme-value graphical models with multiple covariates 2014 ,		1
24	Modeling spatial extremes via ensemble-of-trees of pairwise copulas 2014 ,		3
23	A computational study of stimulus driven epileptic seizure abatement. <i>PLoS ONE</i> , 2014 , 9, e114316	3.7	72

22	A model of stimulus induced epileptic spike-wave discharges 2013 ,		15
21	Bayesian Support Vector Regression for traffic speed prediction with error bars 2013 ,		12
20	Data compression techniques for urban traffic data 2013 ,		19
19	Sparse ACEKF for phase reconstruction. <i>Optics Express</i> , 2013 , 21, 18125-37	3.3	10
18	Low-dimensional models for missing data imputation in road networks 2013 ,		32
17	Copula Gaussian graphical model for discrete data 2013 ,		6
16	Real-Time Comprehensive Sociometrics for Two-Person Dialogs. <i>Lecture Notes in Computer Science</i> , 2013 , 196-208	0.9	5
15	Computational synchronization of microarray data with application to Plasmodium falciparum. <i>Proteome Science</i> , 2012 , 10 Suppl 1, S10	2.6	2
14	2012 ,		9
13	A low-power, reconfigurable smart sensor system for EEG acquisition and classification 2012 ,		8
12	Tensor factorization for missing data imputation in medical questionnaires 2012 ,		6
11	Quantifying statistical interdependence, part III: $N > 2$ point processes. <i>Neural Computation</i> , 2012 , 24, 408-54	2.9	6
10	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
9	Inferring Brain Networks through Graphical Models with Hidden Variables. <i>Lecture Notes in Computer Science</i> , 2012 , 194-201	0.9	8
8	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
7	A two-dimensional approach for lossless EEG compression. <i>Biomedical Signal Processing and Control</i> , 2011 , 6, 387-394	4.9	46
6	Graphical models for localization of the seizure focus from interictal intracranial EEG 2011 ,		2
5	Handling missing data in medical questionnaires using tensor decompositions 2011 ,		4

4	Reduced-Memory Decoding of Low-Density Lattice Codes. <i>IEEE Communications Letters</i> , 2010 , 14, 659-661	13
3	On the synchrony of steady state visual evoked potentials and oscillatory burst events. <i>Cognitive Neurodynamics</i> , 2009 , 3, 251-61	16
2	The Factor Graph Approach to Model-Based Signal Processing. <i>Proceedings of the IEEE</i> , 2007 , 95, 1295-1323	270
1	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	1