

Georg Dorffner

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

3,163
citations

172386

29
h-index

168321

53
g-index

89
all docs

89
docs citations

89
times ranked

3466
citing authors

#	ARTICLE	IF	CITATIONS
1	Interrater reliability for sleep scoring according to the Rechtschaffen & Kales and the new AASM standard. <i>Journal of Sleep Research</i> , 2009, 18, 74-84.	1.7	327
2	Sleep Classification According to AASM and Rechtschaffen & Kales: Effects on Sleep Scoring Parameters. <i>Sleep</i> , 2009, 32, 139-149.	0.6	292
3	An E-Health Solution for Automatic Sleep Classification according to Rechtschaffen and Kales: Validation Study of the Somnolyzer 24 Å— 7 Utilizing the Siesta Database. <i>Neuropsychobiology</i> , 2005, 51, 115-133.	0.9	251
4	Transfer learning using a multi-scale and multi-network ensemble for skin lesion classification. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 193, 105475.	2.6	154
5	Artifact Processing in Computerized Analysis of Sleep EEG â€“ A Review. <i>Neuropsychobiology</i> , 1999, 40, 150-157.	0.9	134
6	A reliable probabilistic sleep stager based on a single EEG signal. <i>Artificial Intelligence in Medicine</i> , 2005, 33, 199-207.	3.8	119
7	Orexin Receptor Antagonism, a New Sleep-Enabling Paradigm: A Proof-of-Concept Clinical Trial. <i>Clinical Pharmacology and Therapeutics</i> , 2012, 91, 975-985.	2.3	119
8	Direct Effect of Sunshine on Suicide. <i>JAMA Psychiatry</i> , 2014, 71, 1231.	6.0	117
9	Computer-Assisted Sleep Classification according to the Standard of the American Academy of Sleep Medicine: Validation Study of the AASM Version of the Somnolyzer 24 Å— 7. <i>Neuropsychobiology</i> , 2010, 62, 250-264.	0.9	113
10	Financial volatility trading using recurrent neural networks. <i>IEEE Transactions on Neural Networks</i> , 2001, 12, 865-874.	4.8	96
11	Using ICA for removal of ocular artifacts in EEG recorded from blind subjects. <i>Neural Networks</i> , 2005, 18, 998-1005.	3.3	81
12	Orexin receptor antagonism: an ascending multiple-dose study with almorexant. <i>Journal of Psychopharmacology</i> , 2012, 26, 1071-1080.	2.0	65
13	Percentile Reference Charts for Selected Sleep Parameters for 20- to 80-Year-Old Healthy Subjects from the SIESTA Database. Referenzkurven für ausgewählte Schlafparameter 20- bis 80-jähriger gesunder Personen aus der SIESTA-Datenbank. <i>Somnologie</i> , 2005, 9, 3-14.	0.9	61
14	Computer-Assisted Automated Scoring of Polysomnograms Using the Somnolyzer System. <i>Sleep</i> , 2015, 38, 1555-1566.	0.6	58
15	UNIFIED FRAMEWORK FOR MLPs AND RBFNs: INTRODUCING CONIC SECTION FUNCTION NETWORKS. <i>Cybernetics and Systems</i> , 1994, 25, 511-554.	1.6	49
16	In search of objective components for sleep quality indexing in normal sleep. <i>Biological Psychology</i> , 2013, 94, 210-220.	1.1	48
17	A prediction tool for initial out-of-hospital cardiac arrest survivors. <i>Resuscitation</i> , 2014, 85, 1225-1231.	1.3	47
18	Deep contextualized embeddings for quantifying the informative content in biomedical text summarization. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105117.	2.6	47

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19	An automatic, continuous and probabilistic sleep stager based on a hidden markov model. Applied Artificial Intelligence, 2002, 16, 199-207.	2.0	46
20	The Effect of Incentive Schemes and Organizational Arrangements on the New Product Development Process. Management Science, 2001, 47, 1029-1045.	2.4	45
21	Predicting the Future of Discrete Sequences from Fractal Representations of the Past. Machine Learning, 2001, 45, 187-217.	3.4	45
22	A randomized Phase 2 study to evaluate the orexin-2 receptor antagonist seltorexant in individuals with insomnia without psychiatric comorbidity. Journal of Psychopharmacology, 2018, 32, 668-677.	2.0	44
23	Fluid network dynamics in the prefrontal cortex during multiple strategy switching. Nature Communications, 2018, 9, 309.	5.8	43
24	CryoNuSeg: A dataset for nuclei instance segmentation of cryosectioned H&E-stained histological images. Computers in Biology and Medicine, 2021, 132, 104349.	3.9	39
25	Forecasting time-dependent conditional densities: a semi non-parametric neural network approach. Journal of Forecasting, 2000, 19, 355-374.	1.6	37
26	The Effects of Aging on Sleep Architecture in Healthy Subjects. Advances in Experimental Medicine and Biology, 2015, 821, 93-100.	0.8	37
27	Neural networks for recognizing patterns in cardiocograms. Artificial Intelligence in Medicine, 1998, 12, 271-284.	3.8	35
28	Machine learning for fast identification of bacteraemia in SIRS patients treated on standard care wards: a cohort study. Scientific Reports, 2018, 8, 12233.	1.6	32
29	On using feedforward neural networks for clinical diagnostic tasks. Artificial Intelligence in Medicine, 1994, 6, 417-435.	3.8	31
30	The effect of seasonal changes and climatic factors on suicide attempts of young people. BMC Psychiatry, 2017, 17, 365.	1.1	29
31	Risk-neutral density extraction from option prices: improved pricing with mixture density networks. IEEE Transactions on Neural Networks, 2001, 12, 716-725.	4.8	26
32	Learning Predictive Features in Affordance based Robotic Perception Systems. , 2006, , .		26
33	Activity of Prefrontal Neurons Predict Future Choices during Gambling. Neuron, 2019, 101, 152-164.e7.	3.8	26
34	Associations of event-related brain potentials and Alzheimer's disease severity: A longitudinal study. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 92, 31-38.	2.5	25
35	On the relationship of first-episode psychosis to the amphetamine-sensitized state: a dopamine D2/3 receptor agonist radioligand study. Translational Psychiatry, 2020, 10, 2.	2.4	25
36	Analysis of nonlinear systems to estimate intraocular lens position after cataract surgery. Journal of Cataract and Refractive Surgery, 2004, 30, 863-866.	0.7	23

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37	Quality control of polysomnographic sleep data by histogram and entropy analysis. <i>Clinical Neurophysiology</i> , 1999, 110, 2165-2170.	0.7	22
38	A comparison of Bayesian model selection based on MCMC with an application to GARCH-type models. <i>Statistical Papers</i> , 2006, 47, 525-549.	0.7	22
39	A Risk Prediction Model for Screening Bacteremic Patients: A Cross Sectional Study. <i>PLoS ONE</i> , 2014, 9, e106765.	1.1	20
40	An Artificial Neural Network-Based Noninvasive Detector for Suction and Left Atrium Pressure in the Control of Rotary Blood Pumps: An In Vitro Study. <i>Artificial Organs</i> , 1995, 19, 719-724.	1.0	18
41	Sepsis biomarkers in neutropaenic systemic inflammatory response syndrome patients on standard care wards. <i>European Journal of Clinical Investigation</i> , 2015, 45, 815-823.	1.7	15
42	Coupling and Decoupling between Brain and Body Oscillations. <i>Neuroscience Letters</i> , 2019, 711, 134401.	1.0	15
43	Visual Learning of Affordance Based Cues. <i>Lecture Notes in Computer Science</i> , 2006, , 52-64.	1.0	15
44	Automatic sleep classification according to Rechtschaffen and Kales. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3994-7.	0.5	14
45	Learning to perceive affordances in a framework of developmental embodied cognition. , 2007, , .		14
46	Applying the Yule-Nielsen equation with negative n. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 1827.	0.8	13
47	Extracting more information from EEG recordings for a better description of sleep. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 961-972.	2.6	13
48	Has the existence of seasonal affective disorder been disproven?. <i>Journal of Affective Disorders</i> , 2017, 208, 54-55.	2.0	13
49	Machine Learning Enables Prediction of Cardiac Amyloidosis by Routine Laboratory Parameters: A Proof-of-Concept Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 1334.	1.0	13
50	Early Relaxation Dynamics in the LC 13 T Cell Receptor in Reaction to 172 Altered Peptide Ligands: A Molecular Dynamics Simulation Study. <i>PLoS ONE</i> , 2013, 8, e64464.	1.1	13
51	Combining two open source tools for neural computation (BioPatRec and Netlab) improves movement classification for prosthetic control. <i>BMC Research Notes</i> , 2016, 9, 429.	0.6	10
52	On the Individuality of Sleep EEG Spectra. <i>Journal of Psychophysiology</i> , 2013, 27, 105-112.	0.3	10
53	The benefit of information reduction for trading strategies. <i>Applied Economics</i> , 2002, 34, 917-930.	1.2	9
54	Ca ²⁺ imaging of neurons in freely moving rats with automatic post hoc histological identification. <i>Journal of Neuroscience Methods</i> , 2020, 341, 108765.	1.3	9

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55	Machine learning-derived electrocardiographic algorithm for the detection of cardiac amyloidosis. <i>Heart</i> , 2022, 108, 1137-1147.	1.2	9
56	Investigating and Exploiting Image Resolution for Transfer Learning-based Skin Lesion Classification. , 2021, , .		7
57	Space-based coil combination via geometric deep learning for reconstruction of non-Cartesian MRI data. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2353-2367.	1.9	7
58	Volatility Trading via Temporal Pattern Recognition in Quantised Financial Time Series. <i>Pattern Analysis and Applications</i> , 2001, 4, 283-299.	3.1	6
59	Bayesian testing for non-linearity in volatility modeling. <i>Computational Statistics and Data Analysis</i> , 2006, 51, 2029-2042.	0.7	6
60	ADAPTIVE MACHINE LEARNING IN DELAYED FEEDBACK DOMAINS BY SELECTIVE RELEARNING. <i>Applied Artificial Intelligence</i> , 2008, 22, 543-557.	2.0	6
61	Neural Network Models for Conditional Distribution Under Bayesian Analysis. <i>Neural Computation</i> , 2008, 20, 504-522.	1.3	6
62	REPLACING SYMBOLIC RULE SYSTEMS WITH PDP NETWORKS Netzsprach: A German Example. <i>Applied Artificial Intelligence</i> , 1989, 3, 45-67.	2.0	5
63	Neither Single nor a Combination of Routine Laboratory Parameters can Discriminate between Gram-positive and Gram-negative Bacteremia. <i>Scientific Reports</i> , 2015, 5, 16008.	1.6	5
64	The MACS Project: An Approach to Affordance-Inspired Robot Control. , 2008, , 173-210.		5
65	Convolutional Neural Networks for Fully Automated Diagnosis of Cardiac Amyloidosis by Cardiac Magnetic Resonance Imaging. <i>Journal of Personalized Medicine</i> , 2021, 11, 1268.	1.1	5
66	Formal neural network specification and its implications on standardization. <i>Computer Standards and Interfaces</i> , 1994, 16, 205-219.	3.8	4
67	Availability and use of mental health services in European countries: Influence on national suicide rates. <i>Journal of Affective Disorders</i> , 2018, 239, 66-71.	2.0	4
68	Clustering suicides: A data-driven, exploratory machine learning approach. <i>European Psychiatry</i> , 2019, 62, 15-19.	0.1	4
69	Complication rates among women undergoing preventive mastectomy: An Austrian registry. <i>Breast Journal</i> , 2020, 26, 1639-1644.	0.4	4
70	Investigating the Impact of the Bit Depth of Fluorescence-Stained Images on the Performance of Deep Learning-Based Nuclei Instance Segmentation. <i>Diagnostics</i> , 2021, 11, 967.	1.3	4
71	Single Trial Estimation of Evoked Potentials Using Gaussian Mixture Models with Integrated Noise Component. <i>Lecture Notes in Computer Science</i> , 2001, , 609-616.	1.0	4
72	EuclidNet - A Multilayer Neural Network using the Euclidian Distance as Propagation Rule. , 1992, , 1633-1636.		4

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73	The roles of predictors in cardiovascular risk models - a question of modeling culture?. BMC Medical Research Methodology, 2021, 21, 284.	1.4	3
74	HOW CONNECTIONISM CAN CHANGE AI AND THE WAY WE THINK ABOUT OURSELVES. Applied Artificial Intelligence, 1993, 7, 59-85.	2.0	2
75	Autonomic dysfunction in PD during sleep. Movement Disorders, 2012, 27, 454-454.	2.2	2
76	Continuous Unsupervised Sleep Staging Based on a Single EEG Signal. Lecture Notes in Computer Science, 2002, , 1013-1018.	1.0	2
77	Flexible features, connectionism, and computational learning theory. Behavioral and Brain Sciences, 1998, 21, 24-25.	0.4	1
78	Sleep Classification According to AASM and Rechtschaffen & Kales: Effects on Sleep Scoring Parameters. Sleep, 2009, , .	0.6	1
79	Estimation of Sleep Quality by Using Microstructure Profiles. Lecture Notes in Computer Science, 2017, , 105-115.	1.0	1
80	Connectionism and syntactic binding of concepts. Behavioral and Brain Sciences, 1993, 16, 456-457.	0.4	0
81	Implantation of the Corinthian IQ stent into the femoropopliteal arteries using 6-F introducer sheaths in antegrade and crossover procedures: midterm results. European Radiology, 2003, 13, 2535-2539.	2.3	0
82	Self-Attention Long-Term Dependency Modelling in Electroencephalography Sleep Stage Prediction. Lecture Notes in Computer Science, 2021, , 379-390.	1.0	0
83	Influence of Obesity and Unemployment on Fertility Rates: A Multinational Analysis of 30 Countries from 1976 to 2014. Journal of Clinical Medicine, 2022, 11, 1152.	1.0	0
84	Altered Expression of RB and pRB in Tissue Arrays of Primary Breast Cancers and Matched Axillary Lymph Node Metastases. Breast Journal, 2022, 2022, 1-6.	0.4	0