

Marc M Van Hulle

List of Publications by Year in descending order

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116
papers

2,457
citations

186254

28
h-index

254170

43
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120
all docs

120
docs citations

120
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-Spatial Beamforming Renders a Visual Brain Computer Interface Capable of Exploiting EEG Electrode Phase Shifts in Motion-Onset Target Responses. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1802-1812.	4.2	2
2	Neural Networks for Directed Connectivity Estimation in Source-Reconstructed EEG Data. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2889.	2.5	1
3	Classification of Event-Related Potentials with Regularized Spatiotemporal LCMV Beamforming. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2918.	2.5	2
4	Analytic beamformer transformation for transfer learning in motion-onset visual evoked potential decoding. <i>Journal of Neural Engineering</i> , 2022, , .	3.5	1
5	Alternating step size method for solving ill-posed linear operator equations in energetic space. <i>Journal of Computational and Applied Mathematics</i> , 2022, 416, 114553.	2.0	0
6	Accurate Offline Asynchronous Detection of Individual Finger Movement From Intracranial Brain Signals Using a Novel Multiway Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2176-2187.	4.2	3
7	Effect of stimulus direction on motion-onset visual evoked potentials decoded using spatiotemporal beamforming Abstract. , 2021, , .		3
8	Practical real-time MEG-based neural interfacing with optically pumped magnetometers. <i>BMC Biology</i> , 2021, 19, 158.	3.8	14
9	Source space reduction for eLORETA. <i>Journal of Neural Engineering</i> , 2021, 18, 066014.	3.5	4
10	The Effect of Mental Fatigue and Gender on Working Memory Performance during Repeated Practice by Young and Older Adults. <i>Neural Plasticity</i> , 2021, 2021, 1-10.	2.2	4
11	Chronic Study on Brainwave Authentication in a Real-Life Setting: An LSTM-Based Bagging Approach. <i>Biosensors</i> , 2021, 11, 404.	4.7	2
12	Divergent Research Methods Limit Understanding of Working Memory Training. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2020, 4, 100-120.	1.6	38
13	Impact of strategy use during N-Back training in older adults. <i>Journal of Cognitive Psychology</i> , 2020, 32, 715-733.	0.9	3
14	Localization of deep brain activity with scalp and subdural EEG. <i>NeuroImage</i> , 2020, 223, 117344.	4.2	32
15	Robust Single-Trial EEG-Based Authentication Achieved with a 2-Stage Classifier. <i>Biosensors</i> , 2020, 10, 124.	4.7	8
16	High- γ oscillations precede visual steady-state responses: A human electrocorticography study. <i>Human Brain Mapping</i> , 2020, 41, 5341-5355.	3.6	6
17	N-Back Related ERPs Depend on Stimulus Type, Task Structure, Pre-processing, and Lab Factors. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 549966.	2.0	13
18	Single-Trial EEG Responses Classified Using Latency Features. <i>International Journal of Neural Systems</i> , 2020, 30, 2050033.	5.2	3

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19	Overlapping connectivity patterns during semantic processing of abstract and concrete words revealed with multivariate Granger Causality analysis. <i>Scientific Reports</i> , 2020, 10, 2803.	3.3	5
20	Fast Multiway Partial Least Squares Regression. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 433-443.	4.2	12
21	P300, Gray Matter Volume and Individual Characteristics Correlates in Healthy Elderly. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 104.	3.4	12
22	Mental workload of young and older adults gauged with ERPs and spectral power during N-Back task performance. <i>Biological Psychology</i> , 2019, 146, 107726.	2.2	22
23	Semantic and perceptual priming activate partially overlapping brain networks as revealed by direct cortical recordings in humans. <i>NeuroImage</i> , 2019, 203, 116204.	4.2	4
24	Measuring brand association strength with EEG: A single-trial N400 ERP study. <i>PLoS ONE</i> , 2019, 14, e0217125.	2.5	19
25	Identifying brain changes related to cognitive aging using VBM and visual rating scales. <i>NeuroImage: Clinical</i> , 2019, 22, 101697.	2.7	10
26	Predicting Premature Video Skipping and Viewer Interest from EEG Recordings. <i>Entropy</i> , 2019, 21, 1014.	2.2	12
27	Monitoring temporal dynamics of steady-state visual evoked potentials. , 2019, , .		0
28	Representation of steady-state visual evoked potentials elicited by luminance flicker in human occipital cortex: An electrocorticography study. <i>NeuroImage</i> , 2018, 175, 315-326.	4.2	24
29	A new insight into sentence comprehension: The impact of word associations in sentence processing as shown by invasive EEG recording. <i>Neuropsychologia</i> , 2018, 108, 103-116.	1.6	3
30	Exploring the Organization of Semantic Memory through Unsupervised Analysis of Event-related Potentials. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 381-392.	2.3	6
31	Mutual Information-Based Electrode Selection Extended With Prior Knowledge For Use in Brain-Computer Interfacing. , 2018, , .		3
32	Semantic Features Reveal Different Networks During Word Processing: An EEG Source Localization Study. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 503.	2.0	11
33	Decoding Steady-State Visual Evoked Potentials From Electrocorticography. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 65.	2.5	18
34	N-back training and transfer effects revealed by behavioral responses and EEG. <i>Brain and Behavior</i> , 2018, 8, e01136.	2.2	42
35	Event Related Potential Study of Language Interaction in Bilingual Aphasia Patients. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 81.	2.0	1
36	Accurate Decoding of Short, Phase-Encoded SSVEPs. <i>Sensors</i> , 2018, 18, 794.	3.8	7

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37	Effect of word association on linguistic event-related potentials in moderately to mildly constraining sentences. <i>Scientific Reports</i> , 2018, 8, 7175.	3.3	5
38	Ergonomic design of an EEG headset using 3D anthropometry. <i>Applied Ergonomics</i> , 2017, 58, 128-136.	3.1	41
39	Typicality effect on N400 ERP in categories despite differences in semantic processing. , 2017, , .		2
40	Code-modulated visual evoked potentials using fast stimulus presentation and spatiotemporal beamformer decoding. <i>Scientific Reports</i> , 2017, 7, 15037.	3.3	43
41	Product sizing with 3D anthropometry and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" display="inline" id="mml4" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -medoids clustering. <i>CAD Computer Aided Design</i> , 2017, 91, 60-74.	2.7	34
42	Spatiotemporal Beamforming: A Transparent and Unified Decoding Approach to Synchronous Visual Brain-Computer Interfacing. <i>Frontiers in Neuroscience</i> , 2017, 11, 630.	2.8	26
43	Discrimination of emotional states from scalp- and intracranial EEG using multiscale Rényi entropy. <i>PLoS ONE</i> , 2017, 12, e0186916.	2.5	10
44	ERP Response Unveils Effect of Second Language Manipulation on First Language Processing. <i>PLoS ONE</i> , 2016, 11, e0167194.	2.5	12
45	Language processing in bilingual aphasia: a new insight into the problem. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2016, 7, 180-196.	2.8	17
46	Hierarchical online SSVEP spelling achieved with spatiotemporal beamforming. , 2016, , .		6
47	Faster P300 Classifier Training Using Spatiotemporal Beamforming. <i>International Journal of Neural Systems</i> , 2016, 26, 1650014.	5.2	35
48	Cortical distribution of N400 potential in response to semantic priming with visual non-linguistic stimuli. , 2016, , .		3
49	Stable Voice Clusters Identified When Using the Maximum versus Minimum Intensity Curve in the Phonetogram. <i>Folia Phoniatica Et Logopaedica</i> , 2016, 67, 259-266.	1.1	1
50	Discriminating Multiple Emotional States from EEG Using a Data-Adaptive, Multiscale Information-Theoretic Approach. <i>International Journal of Neural Systems</i> , 2016, 26, 1650005.	5.2	34
51	Single-Trial ERP Component Analysis Using a Spatiotemporal LCMV Beamformer. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 55-66.	4.2	42
52	Sentence Context Prevails Over Word Association in Aphasia Patients with Spared Comprehension: Evidence from N400 Event-Related Potential. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 684.	2.0	11
53	Frequency- and Phase Encoded SSVEP Using Spatiotemporal Beamforming. <i>PLoS ONE</i> , 2016, 11, e0159988.	2.5	47
54	Evaluation of an anthropometric shape model of the human scalp. <i>Applied Ergonomics</i> , 2015, 48, 70-85.	3.1	47

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55	Simultaneous Detection of P300 and Steady-State Visually Evoked Potentials for Hybrid Brain-Computer Interface. PLoS ONE, 2015, 10, e0121481.	2.5	29
56	Language Model Applications to Spelling with Brain-Computer Interfaces. Sensors, 2014, 14, 5967-5993.	3.8	35
57	Amplitude of N400 component unaffected by lexical priming for moderately constraining sentences. , 2014, , .		5
58	Response-Related Potentials during Semantic Priming: The Effect of a Speeded Button Response Task on ERPs. PLoS ONE, 2014, 9, e87650.	2.5	29
59	Inter-document reference detection as an alternative to full text semantic analysis in document clustering. , 2013, , .		0
60	Steady-State Visual Evoked Potential-Based Computer Gaming on a Consumer-Grade EEG Device. IEEE Transactions on Games, 2013, 5, 100-110.	1.4	54
61	Sampled sinusoidal stimulation profile and multichannel fuzzy logic classification for monitor-based phase-coded SSVEP brain-computer interfacing. Journal of Neural Engineering, 2013, 10, 036011.	3.5	92
62	Probabilistic Identification of Cerebellar Cortical Neurones across Species. PLoS ONE, 2013, 8, e57669.	2.5	44
63	A Comparison of Two Spelling Brain-Computer Interfaces Based on Visual P3 and SSVEP in Locked-In Syndrome. PLoS ONE, 2013, 8, e73691.	2.5	59
64	HEAD-CENTRIC DISPARITY AND EPIPOLAR GEOMETRY ESTIMATION FROM A POPULATION OF BINOCULAR ENERGY NEURONS. International Journal of Neural Systems, 2012, 22, 1250007.	5.2	5
65	ENHANCING THE YIELD OF HIGH-DENSITY ELECTRODE ARRAYS THROUGH AUTOMATED ELECTRODE SELECTION. International Journal of Neural Systems, 2012, 22, 1-19.	5.2	62
66	Designing a brain-computer interface controlled video-game using consumer grade EEG hardware. , 2012, , .		43
67	Self-organizing Maps. , 2012, , 585-622.		65
68	MULTICHANNEL DECODING FOR PHASE-CODED SSVEP BRAIN-COMPUTER INTERFACE. International Journal of Neural Systems, 2012, 22, 1250022.	5.2	34
69	Feasibility of Error-Related Potential Detection as Novelty Detection Problem in P300 Mind Spelling. Lecture Notes in Computer Science, 2012, , 293-301.	1.3	1
70	An Augmented Echo State Network for Nonlinear Adaptive Filtering of Complex Noncircular Signals. IEEE Transactions on Neural Networks, 2011, 22, 74-83.	4.2	88
71	Performance of Correspondence Algorithms in Vision-Based Driver Assistance Using an Online Image Sequence Database. IEEE Transactions on Vehicular Technology, 2011, 60, 2012-2026.	6.3	40
72	Text mining with emergent self organizing maps and multi-dimensional scaling: A comparative study on domestic violence. Applied Soft Computing Journal, 2011, 11, 3870-3876.	7.2	15

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73	A clustering study of a 7000 EU document inventory using MDS and SOM. Expert Systems With Applications, 2011, 38, 8835-8849.	7.6	8
74	Functional connectivity analysis of fMRI data based on regularized multiset canonical correlation analysis. Journal of Neuroscience Methods, 2011, 197, 143-157.	2.5	26
75	Comparison of Classification Methods for P300 Brain-Computer Interface on Disabled Subjects. Computational Intelligence and Neuroscience, 2011, 2011, 1-12.	1.7	82
76	The Driving School System: Learning Basic Driving Skills From a Teacher in a Real Car. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1135-1146.	8.0	12
77	Subject-adaptive steady-state visual evoked potential detection for brain-computer interface. , 2011, , .		4
78	Distinct Mechanisms for Coding of Visual Actions in Macaque Temporal Cortex. Journal of Neuroscience, 2011, 31, 385-401.	3.6	68
79	Joint Markov Blankets in Feature Sets Extracted from Wavelet Packet Decompositions. Entropy, 2011, 13, 1403-1424.	2.2	0
80	Decoding Phase-Based Information from Steady-State Visual Evoked Potentials with Use of Complex-Valued Neural Network. Lecture Notes in Computer Science, 2011, , 135-143.	1.3	4
81	Control and data acquisition software for high-density CMOS-based microprobe arrays implementing electronic depth control. Biomedizinische Technik, 2010, 55, 183-191.	0.8	23
82	A cortical architecture on parallel hardware for motion processing in real time. Journal of Vision, 2010, 10, 18-18.	0.3	23
83	LEARNING EYE VERGENCE CONTROL FROM A DISTRIBUTED DISPARITY REPRESENTATION. International Journal of Neural Systems, 2010, 20, 267-278.	5.2	13
84	DECODING GRATING ORIENTATION FROM MICROELECTRODE ARRAY RECORDINGS IN MONKEY CORTICAL AREA V4. International Journal of Neural Systems, 2010, 20, 95-108.	5.2	17
85	Increasing and Decreasing Returns and Losses in Mutual Information Feature Subset Selection. Entropy, 2010, 12, 2144-2170.	2.2	6
86	Decoding Stimulus-Reward Pairing From Local Field Potentials Recorded From Monkey Visual Cortex. IEEE Transactions on Neural Networks, 2010, 21, 1892-1902.	4.2	13
87	Optic flow from unstable sequences through local velocity constancy maximization. Image and Vision Computing, 2009, 27, 579-587.	4.5	20
88	P300 Detection Based on Feature Extraction in On-line Brain-Computer Interface. Lecture Notes in Computer Science, 2009, , 339-346.	1.3	16
89	An application of feature selection to on-line P300 detection in brain-computer interface. , 2009, , .		6
90	Coding of images of materials by macaque inferior temporal cortical neurons. European Journal of Neuroscience, 2008, 27, 466-482.	2.6	36

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91	Machine Learning for Signal Processing. Neurocomputing, 2008, 72, 1-2.	5.9	6
92	Synchronization in monkey visual cortex analyzed with an information-theoretic measure. Chaos, 2008, 18, 037130.	2.5	24
93	A Novel Criterion for Onset Detection: Differential Information Redundancy with Application to Human Movement Initiation. , 2007, , .		1
94	fMRI bold signal analysis using a novel nonparametric statistical method. Journal of Magnetic Resonance, 2007, 185, 138-151.	2.1	8
95	Towards Qualitative Assessment of Machine Learning Algorithms: Utilising Signal Modality Characterisation. , 2006, , .		0
96	Hybrid Feature Subset Selection for the Quantitative Assessment of Skills of Stroke Patients in Activity of Daily Living Tasks. , 2006, 2006, 5699-703.		4
97	Optimal instantaneous rigid motion estimation insensitive to local minima. Computer Vision and Image Understanding, 2006, 104, 77-86.	4.7	9
98	Topographic map formation of factorized Edgeworth-expanded kernels. Neural Networks, 2006, 19, 744-750.	5.9	1
99	Statistically Rigorous Human Movement Onset Detection with the Maximal Information Redundancy Criterion. , 2006, 2006, 2474-7.		7
100	Mixture density modeling, Kullback-Leibler divergence, and differential log-likelihood. Signal Processing, 2005, 85, 951-963.	3.7	4
101	Maximum Likelihood Topographic Map Formation. Neural Computation, 2005, 17, 503-513.	2.2	23
102	A non-parametric test for detecting the complex-valued nature of time series. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2004, 8, 99-106.	1.0	11
103	A Novel Method for Determining the Nature of Time Series. IEEE Transactions on Biomedical Engineering, 2004, 51, 728-736.	4.2	57
104	Optimal Smoothing of Kernel-Based Topographic Maps with Application to Density-Based Clustering of Shapes. Journal of Signal Processing Systems, 2004, 37, 211-222.	1.0	5
105	The delay vector variance method for detecting determinism and nonlinearity in time series. Physica D: Nonlinear Phenomena, 2004, 190, 167-176.	2.8	128
106	Signal nonlinearity in fMRI: a comparison between BOLD and MION. IEEE Transactions on Medical Imaging, 2003, 22, 636-644.	8.9	49
107	Indications of nonlinear structures in brain electrical activity. Physical Review E, 2003, 67, 046204.	2.1	95
108	A Non-parametric Test for Detecting the Complex-Valued Nature of Time Series. Lecture Notes in Computer Science, 2003, , 1364-1371.	1.3	2

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109	Joint Entropy Maximization in Kernel-Based Topographic Maps. <i>Neural Computation</i> , 2002, 14, 1887-1906.	2.2	38
110	Kernel-based topographic map formation achieved with an information-theoretic approach. <i>Neural Networks</i> , 2002, 15, 1029-1039.	5.9	27
111	Title is missing!. <i>Journal of Signal Processing Systems</i> , 2002, 32, 119-134.	1.0	3
112	Function of center-surround antagonism for motion in visual area MT/V5: a modeling study. <i>Vision Research</i> , 2001, 41, 3917-3930.	1.4	22
113	Kernel-Based Equiprobabilistic Topographic Map Formation. <i>Neural Computation</i> , 1998, 10, 1847-1871.	2.2	69
114	Modeling the Surround of MT Cells and Their Selectivity for Surface Orientation in Depth Specified by Motion. <i>Neural Computation</i> , 1998, 10, 295-312.	2.2	10
115	Comparing Measures of Active and Passive Field Spread between non-, partially, and fully invasive human brain recordings. <i>Frontiers in Neuroscience</i> , 0, 12, .	2.8	0
116	Towards asynchronous speech decoding. <i>Frontiers in Neuroscience</i> , 0, 12, .	2.8	0