Newton Howard

List of Publications by Year
in descending order

59 papers	2,380 citations	361296 20 h-index	265120 42 g-index
62 all docs	62 docs citations	62 times ranked	2455 citing authors

#	Article	IF	Citations
1	Real-Time Artifacts Reduction during TMS-EEG Co-Registration: A Comprehensive Review on Technologies and Procedures. Sensors, 2021, 21, 637.	2.1	17
2	The Effectiveness of Image Augmentation in Deep Learning Networks for Detecting COVID-19: A Geometric Transformation Perspective. Frontiers in Medicine, 2021, 8, 629134.	1.2	45
3	Social distancing enhanced automated optimal design of physical spaces in the wake of the COVID-19 pandemic. Sustainable Cities and Society, 2021, 68, 102791.	5.1	30
4	The Performance of Deep Neural Networks in Differentiating Chest X-Rays of COVID-19 Patients From Other Bacterial and Viral Pneumonias. Frontiers in Medicine, 2020, 7, 550.	1.2	26
5	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. Journal of Clinical Medicine, 2020, 9, 723.	1.0	89
6	BrainOS: A Novel Artificial Brain-Alike Automatic Machine Learning Framework. Frontiers in Computational Neuroscience, 2020, 14, 16.	1.2	5
7	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. Journal of Clinical Medicine, 2020, 9, 1203.	1.0	32
8	Assessment of Hypertension Using Clinical Electrocardiogram Features: A First-Ever Review. Frontiers in Medicine, 2020, 7, 583331.	1.2	15
9	The use of photoplethysmography for assessing hypertension. Npj Digital Medicine, 2019, 2, 60.	5.7	359
10	How Effective Is Pulse Arrival Time for Evaluating Blood Pressure? Challenges and Recommendations from a Study Using the MIMIC Database. Journal of Clinical Medicine, 2019, 8, 337.	1.0	56
11	Artificial intelligence: a key to relieve China's insufficient and unequally-distributed medical resources. American Journal of Translational Research (discontinued), 2019, 11, 2632-2640.	0.0	6
12	The Fundamental Code Unit of the Brain: Towards a New Model for Cognitive Geometry. Cognitive Computation, 2018, 10, 426-436.	3.6	11
13	Automatic Detection of Acromegaly From Facial Photographs Using Machine Learning Methods. EBioMedicine, 2018, 27, 94-102.	2.7	80
14	Cognitive Informatics. International Journal of Cognitive Informatics and Natural Intelligence, 2018, 12, 1-13.	0.4	14
15	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. Journal of Clinical Medicine, 2018, 7, 316.	1.0	84
16	Subliminal Priming—State of the Art and Future Perspectives. Behavioral Sciences (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 To	1.0	50
17	Ensemble application of convolutional neural networks and multiple kernel learning for multimodal sentiment analysis. Neurocomputing, 2017, 261, 217-230.	3.5	167
18	The embodiment of connotations: A proposed model. Semiotica, 2017, 2017, 65-79.	0.2	0

#	ARTICLE	IF	CITATIONS
19	A Bayesian Assessment of Real-World Behavior During Multitasking. Cognitive Computation, 2017, 9, 749-757.	3.6	2
20	Comparing Oversampling Techniques to Handle the Class Imbalance Problem: A Customer Churn Prediction Case Study. IEEE Access, 2016, 4, 7940-7957.	2.6	210
21	Fusing audio, visual and textual clues for sentiment analysis from multimodal content. Neurocomputing, 2016, 174, 50-59.	3.5	372
22	A Six-Step Framework on Biomedical Signal Analysis for Tackling Noncommunicable Diseases: Current and Future Perspectives. JMIR Biomedical Engineering, 2016, 1, e1.	0.7	17
23	Exploring the Use of Sensors to Measure Behavioral Interactions: An Experimental Evaluation of Using Hand Trajectories. PLoS ONE, 2014, 9, e88080.	1.1	14
24	Towards a differential diagnostic of PTSD using cognitive computing methods. , 2014, , .		1
25	BrainSpace: Relating Neuroscience to Knowledge About Everyday Life. Cognitive Computation, 2014, 6, 35-44.	3.6	9
26	Computational Intelligence for Natural Language Processing [Guest Editorial]. IEEE Computational Intelligence Magazine, 2014, 9, 19-63.	3.4	8
27	How much information should we drop to become intelligent?. Applied Mathematics and Computation, 2014, 245, 261-264.	1.4	7
28	Affective neural networks and cognitive learning systems for big data analysis. Neural Networks, 2014, 58, 1-3.	3.3	13
29	Semantic Multidimensional Scaling for Open-Domain Sentiment Analysis. IEEE Intelligent Systems, 2014, 29, 44-51.	4.0	74
30	Intention awareness: improving upon situation awareness in human-centric environments. Human-centric Computing and Information Sciences, 2013, 3, .	6.1	56
31	Enhanced SenticNet with Affective Labels for Concept-Based Opinion Mining. IEEE Intelligent Systems, 2013, 28, 31-38.	4.0	204
32	Comparison of median frequency between traditional and functional sensor placements during activity monitoring. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2193-2200.	2.5	4
33	Music Genre Classification: A Semi-supervised Approach. Lecture Notes in Computer Science, 2013, , 254-263.	1.0	23
34	Toward understanding analogical mapping and ideological cataloguing in the brain: Poster paper. , 2013, , .		0
35	Sentic blending: Scalable multimodal fusion for the continuous interpretation of semantics and sentics. , 2013, , .		69
36	Application of intention awareness and sentic computing for sensemaking in joint-cognitive systems. , 2013, , .		0

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37	Examining Everyday Speech and Motor Symptoms of Parkinson's Disease for Diagnosis and Progression Tracking. , 2013, , .		3
38	Approach Towards a Natural Language Analysis for Diagnosing Mood Disorders and Comorbid Conditions. , 2013, , .		4
39	Why “dark thoughts” aren't really dark: A novel algorithm for metaphor identification. , 2013, , .		20
40	Development of a Diplomatic, Information, Military, Health, and Economic Effects Modeling System. International Journal of Privacy and Health Information Management, 2013, 1, 1-11.	0.2	0
41	Effect of Impairment on Upper Limb Performance in an Ageing Sample Population. Lecture Notes in Computer Science, 2013, , 78-87.	1.0	2
42	Metaphor Identification in Large Texts Corpora. PLoS ONE, 2013, 8, e62343.	1.1	70
43	The Twin Hypotheses. Lecture Notes in Computer Science, 2013, , 430-463.	1.0	2
44	Perception in International Conflict: An Agent-Based Approach. , 2012, , .		1
45	Digital Crosstalk: Using intention awareness for better battlefield and logistics communications. , 2012, , .		0
46	Intention awareness in human-machine interaction sensemaking in joint-cognitive systems. , 2012, , .		1
47	Can Computers Help Us to Better Understand Different Cultures? Toward a Computer-Based CULINT. , 2012, , .		0
48	Network Intelligence: An Emerging Discipline. , 2012, , .		1
49	Diplomatic, Information, Military and Economic power (DIME): An effects modeling system. , 2012, , .		1
50	Intention awareness in cyber security. , 2012, , .		0
51	Combining computational neuroscience and body sensor networks to investigate Alzheimerâ€™s disease. BMC Neuroscience, 2012, 13, .	0.8	1
52	Brain Language: The Fundamental Code Unit. The Brain Sciences Journal, 2012, 1, 4-45.	0.8	6
53	Energy Paradox of the Brain. The Brain Sciences Journal, 2012, 1, 46-61.	0.8	2
54	Cognitive Architecture: Integrating Situation Awareness and Intention Awareness. The Brain Sciences Journal, 2012, 1, 62-84.	0.8	5

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55	Brain Space: Relating Neuroscience to Knowledge About Everyday Life. The Brain Sciences Journal, 2012, 1, 85-97.	0.8	1
56	LXIO: The Mood Detection Robopsych. The Brain Sciences Journal, 2012, 1, 98-109.	0.8	7
57	Transcranial Ultrasound Application Methods: Low-frequency Ultrasound as a Treatment for Brain Dysfunction. The Brain Sciences Journal, 2012, 1, 110-124.	0.8	0
58	Global Defense Policy System of Laws: Graph Theory Approach to Balance of Power Theory. , 2011, , .		2
59	Rich Language Analysis for Counterterrorism. , 2009, , 109-120.		0