

Paul J Mccullagh

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.

116
papers

1,290
citations

21
h-index

31
g-index

127
ext. papers

1,534
ext. citations

2.3
avg, IF

4.37
L-index

#	Paper	IF	Citations
116	. <i>IEEE Transactions on Human-Machine Systems</i> , 2020 , 50, 277-286	4.1	3
115	Feature learning for Human Activity Recognition using Convolutional Neural Networks. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2020 , 2, 18-32	1.8	37
114	Data Reduction Methods for Life-Logged Datasets. <i>Computer Communications and Networks</i> , 2020 , 305-319		
113	Speed of Rapid Serial Visual Presentation of Pictures, Numbers and Words Affects Event-Related Potential-Based Detection Accuracy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 113-122	4.8	5
112	Personalizing Activity Recognition With a Clustering Based Semi-Population Approach. <i>IEEE Access</i> , 2020 , 8, 207794-207804	3.5	5
111	Wearable technology-based metrics for predicting operator performance during cardiac catheterisation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 645-657	3.9	6
110	Patient and carer survey of remote vital sign telemonitoring for self-management of long-term conditions. <i>BMJ Health and Care Informatics</i> , 2019 , 26,	2.6	4
109	A Public Domain Dataset for Human Activity Recognition in Free-Living Conditions 2019 ,		4
108	Comparing CNN and Human Crafted Features for Human Activity Recognition 2019 ,		6
107	Automatic Annotation for Human Activity Recognition in Free Living Using a Smartphone. <i>Sensors</i> , 2018 , 18,	3.8	27
106	A review of rapid serial visual presentation-based brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2018 , 15, 021001	5	37
105	. <i>IEEE Transactions on Human-Machine Systems</i> , 2018 , 48, 113-124	4.1	10
104	. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 814-821	4.1	21
103	Rich context information for just-in-time adaptive intervention promoting physical activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 849-852	0.9	2
102	An SSVEP and Eye Tracking Hybrid BNCI: Potential Beyond Communication and Control. <i>Lecture Notes in Computer Science</i> , 2016 , 69-78	0.9	4
101	A Personalized Self-Management Rehabilitation System for Stroke Survivors: A Quantitative Gait Analysis Using a Smart Insole. <i>JMIR Rehabilitation and Assistive Technologies</i> , 2016 , 3, e11	3.2	7
100	Mind, the Gap. <i>Communications in Computer and Information Science</i> , 2016 , 102-112	0.3	

99	KeepWell: A Generic Platform for the Self-Management of Chronic Conditions. <i>IFMBE Proceedings</i> , 2016 , 897-902	0.2	3
98	BCI and Eye Gaze: Collaboration at the Interface. <i>Lecture Notes in Computer Science</i> , 2015 , 199-210	0.9	4
97	Home-Based Self-Management of Dementia: Closing the Loop. <i>Lecture Notes in Computer Science</i> , 2015 , 232-243	0.9	3
96	Accessing Tele-Services Using a Hybrid BCI Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 110-123	0.9	5
95	Qualitative evaluation of the SMART2 self-management system for people in chronic pain. <i>Disability and Rehabilitation: Assistive Technology</i> , 2015 , 10, 53-60	1.8	19
94	Design of a smart insole for ambulatory assessment of gait 2015 ,		9
93	VitalSimML - A well-formed data structure to Capture Patient Monitoring Scenarios to facilitate the training of nurses via computer-based simulation 2015 ,		1
92	RFID network deployment approaches for indoor localisation 2015 ,		2
91	2015 ,		5
90	Home Based Mobile Solution for Video Ambulatory EEG Monitoring 2014 ,		1
89	An Efficient Feature Selection Method for Activity Classification 2014 ,		5
88	Design and Evaluation of a Smartphone Based Wearable Life-Logging and Social Interaction System 2014 ,		5
87	A smartphone based real-time daily activity monitoring system. <i>Cluster Computing</i> , 2014 , 17, 711-721	2.1	18
86	A method for assessing the usability of an on screen display for a brain-computer interface. <i>International Journal of Computers in Healthcare</i> , 2014 , 2, 43		1
85	COPD lifestyle support through self-management (CALs) 2014 ,		2
84	Night optimised care technology for users needing assisted lifestyles. <i>Behaviour and Information Technology</i> , 2014 , 33, 1261-1277	2.4	8
83	Towards a generic platform for the self-management of chronic conditions 2014 ,		1
82	Quantifying brain activity for task engagement 2014 ,		2

81	Self-management of COPD 2014 ,		5
80	The Brain Computer Interface: Barriers to Becoming Pervasive. <i>Human-computer Interaction Series</i> , 2014 , 101-129	0.6	4
79	Flexible context aware interface for ambient assisted living. <i>Human-centric Computing and Information Sciences</i> , 2014 , 4,	5.4	34
78	Ethical Challenges Associated with the Development and Deployment of Brain Computer Interface Technology. <i>Neuroethics</i> , 2014 , 7, 109-122	1.2	32
77	Design and Evaluation of a Smartphone Based Wearable Life-Logging and Social Interaction System. <i>Lecture Notes in Computer Science</i> , 2014 , 179-186	0.9	0
76	Managing Communication for People with Amyotrophic Lateral Sclerosis: The Role of the Brain-Computer Interface. <i>Communications in Medical and Care Compunetics</i> , 2014 , 215-235		1
75	Superhighway patrolman. <i>Futures</i> , 2013 , 50, 101-108	3.6	2
74	An ontological framework for activity monitoring and reminder reasoning in an assisted environment. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 157-168	3.7	15
73	Science versus design; comparable, contrastive or conducive?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 21, 195-201	4.1	4
72	Participatory research to design a novel telehealth system to support the night-time needs of people with dementia: NOCTURNAL. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 6764-82	4.6	28
71	Investigation into a Mixed Hybrid Using SSVEP and Eye Gaze for Optimising User Interaction within a Virtual Environment. <i>Lecture Notes in Computer Science</i> , 2013 , 530-539	0.9	11
70	Knowledge discovery from activity monitoring to support independent living of people with early dementia 2012 ,		3
69	An orientation free adaptive step detection algorithm using a smart phone in physical activity monitoring. <i>Health and Technology</i> , 2012 , 2, 249-258	2.1	9
68	Knowledge transfer for technology based interventions: Collaboration, development and evaluation. <i>Technology and Disability</i> , 2012 , 24, 233-243	0.7	6
67	Evaluation of connected health technology. <i>Technology and Health Care</i> , 2012 , 20, 151-67	1.1	5
66	Data and Information Quality Issues in Ambient Assisted Living Systems. <i>Journal of Data and Information Quality</i> , 2012 , 4, 1-15	2.5	28
65	Investigating the use of brain-computer interaction to facilitate creativity 2012 ,		7
64	Multi-agent System Feedback and Support for Ambient Assisted Living 2012 ,		2

63	Evaluation of a technology enabled garment for older walkers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012</i> , 2012, 2100-3	0.9	4
62	Realistic expectations with brain computer interfaces. <i>Journal of Assistive Technologies, 2012</i> , 6, 233-244		11
61	A pattern analysis and visualisation system for sleep monitoring in ambient assisted living environment. <i>International Journal of Computers in Healthcare, 2012</i> , 1, 320		1
60	A Smart Garment for Older Walkers. <i>Lecture Notes in Computer Science, 2012</i> , 258-261	0.9	4
59	The NOCTURNAL Ambient Assisted Living System 2011 ,		1
58	A Platform for Self-Management Supported by Assistive, Rehabilitation and Telecare Technologies 2011 ,		3
57	A sleep pattern analysis and visualization system to support people with early dementia 2011 ,		6
56	2011 , 49, 110-117		35
55	Feature selection and classification in supporting report-based self-management for people with chronic pain. <i>IEEE Transactions on Information Technology in Biomedicine, 2011</i> , 15, 54-61		9
54	Optimal model selection for posture recognition in home-based healthcare. <i>International Journal of Machine Learning and Cybernetics, 2011</i> , 2, 1-14	3.8	33
53	Technology-mediated therapy for chronic pain management: the challenges of adapting behavior change interventions for delivery with pervasive communication technology. <i>Telemedicine Journal and E-Health, 2011</i> , 17, 211-6	5.9	22
52	Multi-agent Interactions for Ambient Assisted Living 2011 ,		5
51	An Ontology-Based Context-aware Approach for Behaviour Analysis. <i>Atlantis Ambient and Pervasive Intelligence, 2011</i> , 127-148		7
50	Reliability of Location Detection in Intelligent Environments. <i>Advances in Intelligent and Soft Computing, 2011</i> , 181-188		4
49	Safety Considerations in the Development of Intelligent Environments. <i>Advances in Intelligent and Soft Computing, 2011</i> , 197-204		3
48	An Ontological Approach for Context-Aware Reminders in Assisted Living Behavior Simulation. <i>Lecture Notes in Computer Science, 2011</i> , 677-684	0.9	4
47	A Subarea Mapping Approach for Indoor Localization. <i>Lecture Notes in Computer Science, 2011</i> , 80-87	0.9	3
46	Towards Standardized User and Application Interfaces for the Brain Computer Interface. <i>Lecture Notes in Computer Science, 2011</i> , 573-582	0.9	3

45	NOCTURNAL Ambient Assisted Living. <i>Lecture Notes in Computer Science</i> , 2011 , 350-354	0.9	2
44	Professional development of health informatics in Northern Ireland. <i>Studies in Health Technology and Informatics</i> , 2011 , 169, 218-22	0.5	2
43	Contrasting levels of accuracy in command interaction sequences for a domestic brain-computer interface using SSVEP 2010 ,		10
42	Mining, knowledge and decision support. <i>Technology and Health Care</i> , 2010 , 18, 429-41	1.1	5
41	Activity monitoring using an intelligent mobile phone 2010 ,		6
40	Pervasive technology to facilitate wellness 2010 ,		1
39	A user centred approach for developing Brain-Computer Interfaces 2010 ,		9
38	Brain Computer Interfaces for inclusion 2010 ,		3
37	Smart self management: assistive technology to support people with chronic disease. <i>Journal of Telemedicine and Telecare</i> , 2010 , 16, 224-7	6.8	40
36	Activity Monitoring Using a Smart Phone's Accelerometer with Hierarchical Classification 2010 ,		48
35	Scoping the Potential for Anytime-Anywhere Support Through Virtual Mentors. <i>Innovations in Teaching and Learning in Information and Computer Sciences</i> , 2010 , 9, 1-12		2
34	Can brain computer interfaces become practical assistive devices in the community?. <i>Studies in Health Technology and Informatics</i> , 2010 , 160, 314-8	0.5	4
33	A theoretic algorithm for fall and motionless detection 2009 ,		9
32	A review of the role of assistive technology for people with dementia in the hours of darkness. <i>Technology and Health Care</i> , 2009 , 17, 281-304	1.1	43
31	An optimization of ReliefF for classification in large datasets. <i>Data and Knowledge Engineering</i> , 2009 , 68, 1348-1356	1.5	22
30	Home Based Self-management of Chronic Diseases. <i>Lecture Notes in Computer Science</i> , 2009 , 229-232	0.9	2
29	State of the art on night-time care of people with dementia 2009 ,		7
28	Integration of assistive technology to support self management of chronic disease 2009 ,		2

27	Optimal electrocardiographic lead systems: practical scenarios in smart clothing and wearable health systems. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008 , 12, 433-41		23
26	Management of Uncertainty and Spatio-Temporal Aspects for Monitoring and Diagnosis in a Smart Home. <i>International Journal of Computational Intelligence Systems</i> , 2008 , 1, 361-378	3.4	44
25	Identification of Choroidal Neovascularisation on Fluorescein Angiograms Using Gradient Vector Flow Active Contours 2008 ,		3
24	Towards a Decision Support Personalised Self Management System for Chronic Conditions 2008 ,		4
23	Personalisation and configuration of assistive technologies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 3304-7	0.9	5
22	Management of Uncertainty and Spatio-Temporal Aspects for Monitoring and Diagnosis in a Smart Home. <i>International Journal of Computational Intelligence Systems</i> , 2008 , 1, 361	3.4	19
21	Ambient Intelligence: Concepts and applications. <i>Computer Science and Information Systems</i> , 2007 , 4, 1-27	0.8	113
20	Auditory brainstem response classification: a hybrid model using time and frequency features. <i>Artificial Intelligence in Medicine</i> , 2007 , 40, 1-14	7.4	12
19	Feature selection and classification model construction on type 2 diabetic patients' data. <i>Artificial Intelligence in Medicine</i> , 2007 , 41, 251-62	7.4	88
18	Optimizing the 12-lead electrocardiogram: a data driven approach to locating alternative recording sites. <i>Journal of Electrocardiology</i> , 2007 , 40, 292-9	1.4	10
17	Neuroaffective processing in criminal psychopaths: brain event-related potentials reveal task-specific anomalies. <i>Journal of Personality Disorders</i> , 2007 , 21, 322-39	2.6	26
16	Synthesising the 12-lead electrocardiogram: Trends and challenges. <i>European Journal of Internal Medicine</i> , 2007 , 18, 566-70	3.9	29
15	A comparison of supervised classification methods for auditory brainstem response determination. <i>Studies in Health Technology and Informatics</i> , 2007 , 129, 1289-93	0.5	
14	A Supervised Learning Approach to Predicting Coronary Heart Disease Complications in Type 2 Diabetes Mellitus Patients 2006 ,		13
13	The Optimisation of Thresholding Techniques for the Identification of Choroidal Neovascular Membranes in Exudative Age-Related Macular Degeneration 2006 ,		5
12	Selection of optimal recording sites for limited lead body surface potential mapping: a sequential selection based approach. <i>BMC Medical Informatics and Decision Making</i> , 2006 , 6, 9	3.6	13
11	Mining for diagnostic information in body surface potential maps: a comparison of feature selection techniques. <i>BioMedical Engineering OnLine</i> , 2005 , 4, 51	4.1	9
10	Evaluation of Outcome Prediction for a Clinical Diabetes Database. <i>Lecture Notes in Computer Science</i> , 2004 , 181-190	0.9	6

9	An electrocortical correlate of a history of alcohol abuse in criminal offenders. <i>Psychology, Crime and Law</i> , 2001 , 7, 105-117	1.4	7
8	PC software library for the production of auditory stimuli in cognitive event-related potential experiments. <i>Computer Methods and Programs in Biomedicine</i> , 1994 , 45, 283-9	6.9	
7	Automated classification of peripheral movement disorder. <i>Journal of Microcomputer Applications</i> , 1990 , 13, 281-290		
6	Irish Paediatric Association. <i>Irish Journal of Medical Science</i> , 1989 , 158, 27-32	1.9	
5	Irish gerontological society. <i>Irish Journal of Medical Science</i> , 1989 , 158, 197-200	1.9	
4	Topographical brain electrical activity mapping on an IBM-compatible personal computer. <i>Journal of Biomedical Engineering</i> , 1989 , 11, 137-40		2
3	A missing data estimation analysis in type II diabetes databases		3
2	Feature selection via supervised model construction		3
1	The Use of Artificial Neural Networks for Objective Determination of Hearing Threshold Using the Auditory Brainstem Response 195-216		