

Dennis Paul Wall

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.

89
papers

2,620
citations

27
h-index

49
g-index

118
ext. papers

3,678
ext. citations

6.9
avg, IF

5.12
L-index

#	Paper	IF	Citations
89	Improved Digital Therapy for Developmental Pediatrics Using Domain-Specific Artificial Intelligence: Machine Learning Study.. <i>JMIR Pediatrics and Parenting</i> , 2022 , 5, e26760	4.2	2
88	Crowd annotations can approximate clinical autism impressions from short home videos with privacy protections. <i>Intelligence-based Medicine</i> , 2022 , 100056	2.7	0
87	Classifying Autism From Crowdsourced Semistructured Speech Recordings: Machine Learning Model Comparison Study.. <i>JMIR Pediatrics and Parenting</i> , 2022 , 5, e35406	4.2	0
86	Identification of Social Engagement Indicators Associated With Autism Spectrum Disorder Using a Game-Based Mobile App: Comparative Study of Gaze Fixation and Visual Scanning Methods.. <i>Journal of Medical Internet Research</i> , 2022 , 24, e31830	7.6	2
85	Evaluation of an artificial intelligence-based medical device for diagnosis of autism spectrum disorder.. <i>Npj Digital Medicine</i> , 2022 , 5, 57	15.7	3
84	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2021 , 26, 14-25	1.3	2
83	A Mobile Game Platform for Improving Social Communication in Children with Autism: A Feasibility Study. <i>Applied Clinical Informatics</i> , 2021 , 12, 1030-1040	3.1	3
82	Crowdsourced privacy-preserved feature tagging of short home videos for machine learning ASD detection. <i>Scientific Reports</i> , 2021 , 11, 7620	4.9	5
81	Children with Autism and Their Typically Developing Siblings Differ in Amplicon Sequence Variants and Predicted Functions of Stool-Associated Microbes. <i>MSystems</i> , 2021 , 6,	7.6	2
80	Estimating sequencing error rates using families. <i>BioData Mining</i> , 2021 , 14, 27	4.3	1
79	A maximum flow-based network approach for identification of stable noncoding biomarkers associated with the multigenic neurological condition, autism. <i>BioData Mining</i> , 2021 , 14, 28	4.3	
78	Training Affective Computer Vision Models by Crowdsourcing Soft-Target Labels. <i>Cognitive Computation</i> , 2021 , 13, 1363	4.4	2
77	Multi-modular AI Approach to Streamline Autism Diagnosis in Young Children. <i>Scientific Reports</i> , 2020 , 10, 5014	4.9	27
76	The conserved microRNA miR-34 regulates synaptogenesis via coordination of distinct mechanisms in presynaptic and postsynaptic cells. <i>Nature Communications</i> , 2020 , 11, 1092	17.4	16
75	Achieving Trustworthy Biomedical Data Solutions 2020 ,		5
74	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder 2020 ,		7
73	Feature Selection and Dimension Reduction of Social Autism Data. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2020 , 25, 707-718	1.3	9

72	The Performance of Emotion Classifiers for Children With Parent-Reported Autism: Quantitative Feasibility Study. <i>JMIR Mental Health</i> , 2020 , 7, e13174	6	15
71	Toward Continuous Social Phenotyping: Analyzing Gaze Patterns in an Emotion Recognition Task for Children With Autism Through Wearable Smart Glasses. <i>Journal of Medical Internet Research</i> , 2020 , 22, e13810	7.6	15
70	Data-Driven Diagnostics and the Potential of Mobile Artificial Intelligence for Digital Therapeutic Phenotyping in Computational Psychiatry. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020 , 5, 759-769	3.4	27
69	Feature replacement methods enable reliable home video analysis for machine learning detection of autism. <i>Scientific Reports</i> , 2020 , 10, 21245	4.9	11
68	Game theoretic centrality: a novel approach to prioritize disease candidate genes by combining biological networks with the Shapley value. <i>BMC Bioinformatics</i> , 2020 , 21, 356	3.6	2
67	Precision Telemedicine through Crowdsourced Machine Learning: Testing Variability of Crowd Workers for Video-Based Autism Feature Recognition. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	16
66	A Mobile Game for Automatic Emotion-Labeling of Images. <i>IEEE Transactions on Games</i> , 2020 , 12, 213-218	2	19
65	The Potential for Machine Learning-Based Wearables to Improve Socialization in Teenagers and Adults With Autism Spectrum Disorder-Reply. <i>JAMA Pediatrics</i> , 2019 , 173, 1106	8.3	8
64	Coalitional Game Theory Facilitates Identification of Non-Coding Variants Associated With Autism. <i>Biomedical Informatics Insights</i> , 2019 , 11, 1178222619832859	4.9	3
63	Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial. <i>JAMA Pediatrics</i> , 2019 , 173, 446-454	8.3	56
62	Inherited and De Novo Genetic Risk for Autism Impacts Shared Networks. <i>Cell</i> , 2019 , 178, 850-866.e26	56.2	142
61	Labeling images with facial emotion and the potential for pediatric healthcare. <i>Artificial Intelligence in Medicine</i> , 2019 , 98, 77-86	7.4	33
60	Identification and Quantification of Gaps in Access to Autism Resources in the United States: An Infodemiological Study. <i>Journal of Medical Internet Research</i> , 2019 , 21, e13094	7.6	29
59	Validity of Online Screening for Autism: Crowdsourcing Study Comparing Paid and Unpaid Diagnostic Tasks. <i>Journal of Medical Internet Research</i> , 2019 , 21, e13668	7.6	19
58	Detecting Developmental Delay and Autism Through Machine Learning Models Using Home Videos of Bangladeshi Children: Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2019 , 21, e13822	7.6	39
57	Feature Selection and Dimension Reduction of Social Autism Data 2019 ,		5
56	Superpower Glass. <i>GetMobile (New York, N Y)</i> , 2019 , 23, 35-38	0.8	11
55	Guess What?: Towards Understanding Autism from Structured Video Using Facial Affect. <i>Journal of Healthcare Informatics Research</i> , 2019 , 3, 43-66	4	20

54	Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism. <i>Applied Clinical Informatics</i> , 2018 , 9, 129-140	3.1	32
53	Brain-specific functional relationship networks inform autism spectrum disorder gene prediction. <i>Translational Psychiatry</i> , 2018 , 8, 56	8.6	30
52	Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism. <i>Npj Digital Medicine</i> , 2018 , 1, 32	15.7	33
51	Machine learning approach for early detection of autism by combining questionnaire and home video screening. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018 , 25, 1000-1007	8.6	55
50	Coalitional game theory as a promising approach to identify candidate autism genes. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2018 , 23, 436-447	1.3	3
49	Analysis of Sex and Recurrence Ratios in Simplex and Multiplex Autism Spectrum Disorder Implicates Sex-Specific Alleles as Inheritance Mechanism 2018 ,		1
48	Mobile detection of autism through machine learning on home video: A development and prospective validation study. <i>PLoS Medicine</i> , 2018 , 15, e1002705	11.6	67
47	Refining the role of de novo protein-truncating variants in neurodevelopmental disorders by using population reference samples. <i>Nature Genetics</i> , 2017 , 49, 504-510	36.3	203
46	MC-GenomeKey: a multicloud system for the detection and annotation of genomic variants. <i>BMC Bioinformatics</i> , 2017 , 18, 49	3.6	6
45	The GapMap project: a mobile surveillance system to map diagnosed autism cases and gaps in autism services globally. <i>Molecular Autism</i> , 2017 , 8, 55	6.5	5
44	Sparsifying machine learning models identify stable subsets of predictive features for behavioral detection of autism. <i>Molecular Autism</i> , 2017 , 8, 65	6.5	40
43	Human Genome Sequencing at the Population Scale: A Primer on High-Throughput DNA Sequencing and Analysis. <i>American Journal of Epidemiology</i> , 2017 , 186, 1000-1009	3.8	39
42	Cross-disorder comparative analysis of comorbid conditions reveals novel autism candidate genes. <i>BMC Genomics</i> , 2017 , 18, 315	4.5	15
41	Machine learning for early detection of autism (and other conditions) using a parental questionnaire and home video screening 2017 ,		16
40	GapMap: Enabling Comprehensive Autism Resource Epidemiology. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e27	11.4	1
39	A research roadmap for next-generation sequencing informatics. <i>Science Translational Medicine</i> , 2016 , 8, 335ps10	17.5	29
38	A practical approach to real-time neutral feature subtraction for facial expression recognition 2016 ,		14
37	Clinical Evaluation of a Novel and Mobile Autism Risk Assessment. <i>Journal of Autism and Developmental Disorders</i> , 2016 , 46, 1953-1961	4.6	35

36	Comorbid Analysis of Genes Associated with Autism Spectrum Disorders Reveals Differential Evolutionary Constraints. <i>PLoS ONE</i> , 2016 , 11, e0157937	3.7	14
35	The Quantified Brain: A Framework for Mobile Device-Based Assessment of Behavior and Neurological Function. <i>Applied Clinical Informatics</i> , 2016 , 7, 290-8	3.1	15
34	Automated integration of continuous glucose monitor data in the electronic health record using consumer technology. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2016 , 23, 532-7	8.6	75
33	Can we accelerate autism discoveries through crowdsourcing?. <i>Research in Autism Spectrum Disorders</i> , 2016 , 32, 80-83	3	8
32	A transgenic resource for conditional competitive inhibition of conserved Drosophila microRNAs. <i>Nature Communications</i> , 2015 , 6, 7279	17.4	44
31	Rising interdisciplinary collaborations refine our understanding of autisms and give hope to more personalized solutions. <i>Personalized Medicine</i> , 2015 , 12, 359-369	2.2	1
30	Scalable and cost-effective NGS genotyping in the cloud. <i>BMC Medical Genomics</i> , 2015 , 8, 64	3.7	16
29	Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders. <i>Cell Systems</i> , 2015 , 1, 361-374	10.6	29
28	A framework for the interpretation of de novo mutation in human disease. <i>Nature Genetics</i> , 2014 , 46, 944-50	36.3	656
27	A literature search tool for intelligent extraction of disease-associated genes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014 , 21, 399-405	8.6	7
26	COSMOS: Python library for massively parallel workflows. <i>Bioinformatics</i> , 2014 , 30, 2956-8	7.2	20
25	The potential of accelerating early detection of autism through content analysis of YouTube videos. <i>PLoS ONE</i> , 2014 , 9, e93533	3.7	41
24	Systems biology as a comparative approach to understand complex gene expression in neurological diseases. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2013 , 3, 253-72	2.3	16
23	Cross-pollination of research findings, although uncommon, may accelerate discovery of human disease genes. <i>BMC Medical Genomics</i> , 2012 , 13, 114	2.1	2
22	Autworks: a cross-disease network biology application for Autism and related disorders. <i>BMC Medical Genomics</i> , 2012 , 5, 56	3.7	16
21	Personalized cloud-based bioinformatics services for research and education: use cases and the elasticHPC package. <i>BMC Bioinformatics</i> , 2012 , 13 Suppl 17, S22	3.6	15
20	Use of artificial intelligence to shorten the behavioral diagnosis of autism. <i>PLoS ONE</i> , 2012 , 7, e43855	3.7	99
19	The future of genomics in pathology. <i>F1000 Medicine Reports</i> , 2012 , 4, 14		10

18	Cloud computing for comparative genomics with windows azure platform. <i>Evolutionary Bioinformatics</i> , 2012 , 8, 527-34	1.9	5
17	Deriving clinical action from whole-genome analysis. <i>Personalized Medicine</i> , 2012 , 9, 247-252	2.2	1
16	Using game theory to detect genes involved in Autism Spectrum Disorder. <i>Top</i> , 2011 , 19, 121-129	1.3	10
15	Detecting biological network organization and functional gene orthologs. <i>Bioinformatics</i> , 2011 , 27, 2919-20	7.2	1
14	Biomedical cloud computing with Amazon Web Services. <i>PLoS Computational Biology</i> , 2011 , 7, e10021475		95
13	Cloud computing for comparative genomics. <i>BMC Bioinformatics</i> , 2010 , 11, 259	3.6	85
12	Genotator: a disease-agnostic tool for genetic annotation of disease. <i>BMC Medical Genomics</i> , 2010 , 3, 50	3.7	40
11	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1413-1424	3.8	33
10	Converging on a general model of protein evolution. <i>Trends in Biotechnology</i> , 2005 , 23, 485-7	15.1	23
9	Conservation of the RB1 gene in human and primates. <i>Human Mutation</i> , 2005 , 25, 396-409	4.7	13
8	Origin and rapid diversification of a tropical moss. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1413-24	3.8	3
7	Evolutionary patterns of codon usage in the chloroplast gene rbcL. <i>Journal of Molecular Evolution</i> , 2003 , 56, 673-88; discussion 689-90	3.1	14
6	Use of the nuclear gene glyceraldehyde 3-phosphate dehydrogenase for phylogeny reconstruction of recently diverged lineages in Mitthyridium (Musci: Calymperaceae). <i>Molecular Phylogenetics and Evolution</i> , 2002 , 25, 10-26	4.1	23
5	Crowdsourced study of children with autism and their typically developing siblings identifies differences in taxonomic and predicted function for stool-associated microbes using exact sequence variant analysis		1
4	Improved Digital Therapy for Developmental Pediatrics using Domain-Specific Artificial Intelligence: Machine Learning Study (Preprint)		1
3	Crowdsourced feature tagging for scalable and privacy-preserved autism diagnosis		2
2	Crowd Annotations Can Approximate Clinical Autism Impressions from Short Home Videos with Privacy Protections		1
1	Leveraging video data from a digital smartphone autism therapy to train an emotion detection classifier		2

