## Karsten M Borgwardt

List of Publications by Year in descending order

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Version: 2024-02-01

86 papers

8,758 citations

147566 31 h-index 91712 69 g-index

104 all docs

104 docs citations

104 times ranked 11483 citing authors

#	Article	IF	CITATIONS
1	Direct antimicrobial resistance prediction from clinical MALDI-TOF mass spectra using machine learning. Nature Medicine, 2022, 28, 164-174.	15.2	66
2	Determinants of SARS-CoV-2 transmission to guide vaccination strategy in an urban area. Virus Evolution, 2022, 8, veac002.	2.2	7
3	Prediction of recovery from multiple organ dysfunction syndrome in pediatric sepsis patients. Bioinformatics, 2022, 38, i101-i108.	1.8	5
4	Network-guided search for genetic heterogeneity between gene pairs. Bioinformatics, 2021, 37, 57-65.	1.8	9
5	Biological network analysis with deep learning. Briefings in Bioinformatics, 2021, 22, 1515-1530.	3.2	98
6	Using routine MRI data of depressed patients to predict individual responses to electroconvulsive therapy. Experimental Neurology, 2021, 335, 113505.	2.0	10
7	Accelerating Detection of Lung Pathologies with Explainable Ultrasound Image Analysis. Applied Sciences (Switzerland), 2021, 11, 672.	1.3	96
8	Ethnicity-based bias in clinical severity scores. The Lancet Digital Health, 2021, 3, e209-e210.	5.9	3
9	Early Prediction of Sepsis in the ICU Using Machine Learning: A Systematic Review. Frontiers in Medicine, 2021, 8, 607952.	1.2	62
10	RNA atlas of human bacterial pathogens uncovers stress dynamics linked to infection. Nature Communications, 2021, 12, 3282.	5.8	33
11	Machine Learning for Biomedical Time Series Classification: From Shapelets to Deep Learning. Methods in Molecular Biology, 2021, 2190, 33-71.	0.4	14
12	AraPheno and the AraGWAS Catalog 2020: a major database update including RNA-Seq and knockout mutation data for Arabidopsis thaliana. Nucleic Acids Research, 2020, 48, D1063-D1068.	6.5	44
13	Kernel conditional clustering and kernel conditional semi-supervised learning. Knowledge and Information Systems, 2020, 62, 899-925.	2.1	2
14	Large-scale DNA-based phenotypic recording and deep learning enable highly accurate sequence-function mapping. Nature Communications, 2020, 11, 3551.	5.8	36
15	Topological and kernel-based microbial phenotype prediction from MALDI-TOF mass spectra. Bioinformatics, 2020, 36, i30-i38.	1.8	15
16	Prediction of cancer driver genes through network-based moment propagation of mutation scores. Bioinformatics, 2020, 36, i508-i515.	1.8	19
17	Comorbidities, clinical signs and symptoms, laboratory findings, imaging features, treatment strategies, and outcomes in adult and pediatric patients with COVID-19: A systematic review and meta-analysis. Travel Medicine and Infectious Disease, 2020, 37, 101825.	1.5	118
18	Early prediction of circulatory failure in the intensive care unit using machine learning. Nature Medicine, 2020, 26, 364-373.	15.2	204

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19	Enhancing statistical power in temporal biomarker discovery through representative shapelet mining. Bioinformatics, 2020, 36, i840-i848.	1.8	2
20	Graph Kernels: State-of-the-Art and Future Challenges. Foundations and Trends in Machine Learning, 2020, 13, 531-712.	46.6	27
21	SPHN/PHRT: Forming a Swiss-Wide Infrastructure for Data-Driven Sepsis Research. Studies in Health Technology and Informatics, 2020, 270, 1163-1167.	0.2	3
22	Introduction to the special issue for the ECML PKDD 2019 journal track. Machine Learning, 2019, 108, 1191-1192.	3.4	0
23	Introduction to the special issue for the ECML PKDD 2019 journal track. Data Mining and Knowledge Discovery, 2019, 33, 1223-1224.	2.4	0
24	CASMAP: detection of statistically significant combinations of SNPs in association mapping. Bioinformatics, 2019, 35, 2680-2682.	1.8	8
25	Pretransplant Kinetics of Anti-HLA Antibodies in Patients on the Waiting List for Kidney Transplantation. Journal of the American Society of Nephrology: JASN, 2019, 30, 2262-2274.	3.0	11
26	The AraGWAS Catalog: a curated and standardized Arabidopsis thaliana GWAS catalog. Nucleic Acids Research, 2018, 46, D1150-D1156.	6.5	83
27	Multi-target drug repositioning by bipartite block-wise sparse multi-task learning. BMC Systems Biology, 2018, 12, 55.	3.0	8
28	Kernelized rank learning for personalized drug recommendation. Bioinformatics, 2018, 34, 2808-2816.	1.8	44
29	graphkernels: R and Python packages for graph comparison. Bioinformatics, 2018, 34, 530-532.	1.8	26
30	Methods and Tools in Genome-wide Association Studies. Methods in Molecular Biology, 2018, 1819, 93-136.	0.4	11
31	Accurate and adaptive imputation of summary statistics in mixed-ethnicity cohorts. Bioinformatics, 2018, 34, i687-i696.	1.8	6
32	Aberrant working memory processing in major depression: evidence from multivoxel pattern classification. Neuropsychopharmacology, 2018, 43, 1972-1979.	2.8	29
33	Association mapping in biomedical time series via statistically significant shapelet mining. Bioinformatics, 2018, 34, i438-i446.	1.8	17
34	Genome-wide genetic heterogeneity discovery with categorical covariates. Bioinformatics, 2017, 33, 1820-1828.	1.8	15
35	AraPheno: a public database for <i>Arabidopsis thaliana</i> phenotypes. Nucleic Acids Research, 2017, 45, D1054-D1059.	6.5	91
36	easyGWAS: A Cloud-Based Platform for Comparing the Results of Genome-Wide Association Studies. Plant Cell, 2017, 29, 5-19.	3.1	98

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37	Multi-view Spectral Clustering onÂConflictingÂViews. Lecture Notes in Computer Science, 2017, , 826-842.	1.0	5
38	Kernel Conditional Clustering., 2017,,.		1
39	Epigenomic Diversity in a Global Collection of Arabidopsis thaliana Accessions. Cell, 2016, 166, 492-505.	13.5	594
40	Genetic architecture of nonadditive inheritance in <i>Arabidopsis thaliana</i> hybrids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7317-E7326.	3.3	58
41	1,135 Genomes Reveal the Global Pattern of Polymorphism in Arabidopsis thaliana. Cell, 2016, 166, 481-491.	13.5	1,107
42	Genomic Profiles of Diversification and Genotype–Phenotype Association in Island Nematode Lineages. Molecular Biology and Evolution, 2016, 33, 2257-2272.	3.5	31
43	Significant Subgraph Mining with Multiple Testing Correction. , 2015, , .		22
44	Fast and Memory-Efficient Significant Pattern Mining via Permutation Testing. , 2015, , .		35
45	The Evaluation of Tools Used to Predict the Impact of Missense Variants Is Hindered by Two Types of Circularity. Human Mutation, 2015, 36, 513-523.	1.1	283
46	Genome-wide detection of intervals of genetic heterogeneity associated with complex traits. Bioinformatics, 2015, 31, i240-i249.	1.8	23
47	<i>In silico</i> phenotyping via co-training for improved phenotype prediction from genotype. Bioinformatics, 2015, 31, i303-i310.	1.8	9
48	Century-scale Methylome Stability in a Recently Diverged Arabidopsis thaliana Lineage. PLoS Genetics, 2015, 11, e1004920.	1.5	148
49	Multi-Task Feature Selection on Multiple Networks via Maximum Flows. , 2014, , .		7
50	Accurate indel prediction using paired-end short reads. BMC Genomics, 2013, 14, 132.	1.2	30
51	A Lasso multi-marker mixed model for association mapping with population structure correction. Bioinformatics, 2013, 29, 206-214.	1.8	99
52	Efficient network-guided multi-locus association mapping with graph cuts. Bioinformatics, 2013, 29, i171-i179.	1.8	52
53	Accurate detection of differential RNA processing. Nucleic Acids Research, 2013, 41, 5189-5198.	6.5	39
54	Detecting regulatory gene–environment interactions with unmeasured environmental factors. Bioinformatics, 2013, 29, 1382-1389.	1.8	12

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55	ShapePheno: unsupervised extraction of shape phenotypes from biological image collections. Bioinformatics, 2012, 28, 1001-1008.	1.8	4
56	GLIDE: GPU-Based Linear Regression for Detection of Epistasis. Human Heredity, 2012, 73, 220-236.	0.4	32
57	<i>Arabidopsis</i> Defense against <i>Botrytis cinerea</i> : Chronology and Regulation Deciphered by High-Resolution Temporal Transcriptomic Analysis  Â. Plant Cell, 2012, 24, 3530-3557.	3.1	337
58	Spontaneous epigenetic variation in the Arabidopsis thaliana methylome. Nature, 2011, 480, 245-249.	13.7	681
59	Whole-genome sequencing of multiple Arabidopsis thaliana populations. Nature Genetics, 2011, 43, 956-963.	9.4	910
60	Kernel Methods in Bioinformatics. , 2011, , 317-334.		17
61	EPIBLASTER-fast exhaustive two-locus epistasis detection strategy using graphical processing units. European Journal of Human Genetics, 2011, 19, 465-471.	1.4	74
62	Guest editorial to the special issue on inductive logic programming, mining and learning in graphs and Astatistical relational learning. Machine Learning, 2011, 83, 133-135.	3.4	1
63	Two-locus association mapping in subquadratic time. , 2011, , .		8
64	Epistasis detection on quantitative phenotypes by exhaustive enumeration using GPUs. Bioinformatics, 2011, 27, i214-i221.	1.8	19
65	Statistical Tests for Detecting Differential RNA-Transcript Expression from Read Counts. Nature Precedings, 2010, , .	0.1	13
66	Spatio-Spectral Remote Sensing Image Classification With Graph Kernels. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 741-745.	1.4	116
67	Discriminative frequent subgraph mining with optimality guarantees. Statistical Analysis and Data Mining, 2010, 3, 302-318.	1.4	32
68	Gene function prediction from synthetic lethality networks via ranking on demand. Bioinformatics, 2010, 26, 912-918.	1.8	23
69	A Robust Bayesian Two-Sample Test for Detecting Intervals of Differential Gene Expression in Microarray Time Series. Journal of Computational Biology, 2010, 17, 355-367.	0.8	84
70	Graph Mining on Brain Co-activation Networks. Science, Engineering, and Biology Informatics, 2010, , 279-293.	0.1	0
71	Near-optimal supervised feature selection among frequent subgraphs. , 2009, , .		76
72	The graphlet spectrum. , 2009, , .		34

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73	Predicting phenotypic effects of gene perturbations in <i>C. elegans</i> using an integrated network model. BioEssays, 2008, 30, 707-710.	1.2	2
74	Metropolis Algorithms for Representative Subgraph Sampling. , 2008, , .		84
75	The skew spectrum of graphs. , 2008, , .		23
76	Covariate Shift by Kernel Mean Matching. , 2008, , 131-160.		98
77	Supervised feature selection via dependence estimation. , 2007, , .		216
78	A dependence maximization view of clustering. , 2007, , .		68
79	Gene selection via the BAHSIC family of algorithms. Bioinformatics, 2007, 23, i490-i498.	1.8	44
80	Future trends in data mining. Data Mining and Knowledge Discovery, 2007, 15, 87-97.	2.4	128
81	Pattern Mining in Frequent Dynamic Subgraphs. IEEE International Conference on Data Mining, 2006, , .	0.0	91
82	Kernel extrapolation. Neurocomputing, 2006, 69, 721-729.	3.5	9
83	Integrating structured biological data by Kernel Maximum Mean Discrepancy. Bioinformatics, 2006, 22, e49-e57.	1.8	1,037
84	3DString. , 2006, , .		4
85	Class prediction from time series gene expression profiles using dynamical systems kernels. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2006, , 547-58.	0.7	8
86	Protein function prediction via graph kernels. Bioinformatics, 2005, 21, i47-i56.	1.8	591