Bart M P Jansen

List of Publications by Year
in descending order

60 papers	2,434 citations	471509 17 h-index	214800 47 g-index
63 all docs	63 docs citations	63 times ranked	2754 citing authors

#	ARTICLE	IF	CITATIONS
1	Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. Medical Image Analysis, 2017, 42, 1-13.	11.6	710
2	Frailty and the Prediction of Negative Health Outcomes: A Meta-Analysis. Journal of the American Medical Directors Association, 2016, 17, 1163.e1-1163.e17.	2.5	578
3	Kernelization Lower Bounds by Cross-Composition. SIAM Journal on Discrete Mathematics, 2014, 28, 277-305.	0.8	170
4	Augmenting Microsoft's HoloLens with vuforia tracking for neuronavigation. Healthcare Technology Letters, 2018, 5, 221-225.	3.3	87
5	Towards fully multivariate algorithmics: Parameter ecology and the deconstruction of computational complexity. European Journal of Combinatorics, 2013, 34, 541-566.	0.8	82
6	Context aware inactivity recognition for visual fall detection. , 2006, , .		71
7	Vertex Cover Kernelization Revisited. Theory of Computing Systems, 2013, 53, 263-299.	1.1	65
8	Kernel bounds for path and cycle problems. Theoretical Computer Science, 2013, 511, 117-136.	0.9	60
9	Preprocessing subgraph and minor problems: When does a small vertex cover help?. Journal of Computer and System Sciences, 2014, 80, 468-495.	1.2	51
10	Turing kernelization for finding long paths and cycles in restricted graph classes. Journal of Computer and System Sciences, 2017, 85, 18-37.	1.2	42
11	Balance improvement after physical therapy training using specially developed serious games for cerebral palsy children: preliminary results. Disability and Rehabilitation, 2017, 39, 403-406.	1.8	35
12	Data reduction for graph coloring problems. Information and Computation, 2013, 231, 70-88.	0.7	32
13	A Systematic Literature Review of the Successors of â€œNeuroEvolution of Augmenting Topologiesâ€. Evolutionary Computation, 2021, 29, 1-73.	3.0	29
14	The effect of augmented reality on the accuracy and learning curve of external ventricular drain placement. Neurosurgical Focus, 2021, 51, E8.	2.3	26
15	A survey of iris datasets. Image and Vision Computing, 2021, 108, 104109.	4.5	25
16	Data Augmentation of Surface Electromyography for Hand Gesture Recognition. Sensors, 2020, 20, 4892.	3.8	24
17	A Near-Optimal Planarization Algorithm. , 2014, , .		23
18	Automated functional upper limb evaluation of patients with Friedreich ataxia using serious games rehabilitation exercises. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 87.	4.6	22

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19	Parameter ecology for Feedback Vertex Set. Tsinghua Science and Technology, 2014, 19, 387-409.	6.1	21
20	3D Analysis of Upper Limbs Motion during Rehabilitation Exercises Using the KinectTM Sensor: Development, Laboratory Validation and Clinical Application. Sensors, 2018, 18, 2216.	3.8	21
21	Parameterized complexity of vertex deletion into perfect graph classes. Theoretical Computer Science, 2013, 511, 172-180.	0.9	19
22	The Use of Mobile Games to Assess Cognitive Function of Elderly with and without Cognitive Impairment. Journal of Alzheimer's Disease, 2018, 64, 1285-1293.	2.6	19
23	Hilbert sEMG data scanning for hand gesture recognition based on deep learning. Neural Computing and Applications, 2021, 33, 2645-2666.	5.6	19
24	Validation of the Balance Board for Clinical Evaluation of Balance During Serious Gaming Rehabilitation Exercises. Telemedicine Journal and E-Health, 2016, 22, 709-717.	2.8	18
25	Approximation and Kernelization for Chordal Vertex Deletion. SIAM Journal on Discrete Mathematics, 2018, 32, 2258-2301.	0.8	16
26	Fine-Grained Parameterized Complexity Analysis of Graph Coloring Problems. Lecture Notes in Computer Science, 2017, , 345-356.	1.3	14
27	Trunk inclination and hip extension mobility, but not thoracic kyphosis angle, are related to 3D-accelerometry based gait alterations and increased fall-risk in older persons. Gait and Posture, 2019, 72, 89-95.	1.4	13
28	Uniform Kernelization Complexity of Hitting Forbidden Minors. ACM Transactions on Algorithms, 2017, 13, 1-35.	1.0	12
29	The Effect of a Rehabilitation-Specific Gaming Software Platform to Achieve Individual Physiotherapy Goals in Children with Severe Spastic Cerebral Palsy: A Randomized Crossover Trial. Games for Health Journal, 2020, 9, 376-385.	2.0	11
30	Sparsification Upper and Lower Bounds for Graph Problems and Not-All-Equal SAT. Algorithmica, 2017, 79, 3-28.	1.3	10
31	Augmented Reality-Assisted Neurosurgical Drain Placement (ARANED): Technical Note. Acta Neurochirurgica Supplementum, 2021, 131, 267-273.	1.0	9
32	Interchangeability of the Wii Balance Board for Bipedal Balance Assessment. JMIR Rehabilitation and Assistive Technologies, 2015, 2, e8.	2.2	8
33	Patients' Acceptance of the Use of Serious Games in Physical Rehabilitation in Morocco. Games for Health Journal, 2017, 6, 290-294.	2.0	8
34	Optimal Data Reduction for Graph Coloring Using Low-Degree Polynomials. Algorithmica, 2019, 81, 3865-3889.	1.3	8
35	Vertex deletion parameterized by elimination distance and even less. , 2021, , .		7
36	Real-Time Analysis of Hand Gesture Recognition with Temporal Convolutional Networks. Sensors, 2022, 22, 1694.	3.8	7

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37	Semi-automatic calibration of 3D camera images &#x2014; Monitoring activities made easy. , 2008, , .		6
38	On Sparsification for Computing Treewidth. Algorithmica, 2015, 71, 605-635.	1.3	6
39	The end of active video games and the consequences for rehabilitation. Physiotherapy Research International, 2018, 23, e1752.	1.5	6
40	Polynomial kernels for hitting forbidden minors under structural parameterizations. Theoretical Computer Science, 2020, 841, 124-166.	0.9	6
41	The interrelationship between grip work, self-perceived fatigue and pre-frailty in community-dwelling octogenarians. Experimental Gerontology, 2021, 152, 111440.	2.8	6
42	Fine-grained Complexity Analysis of Two Classic TSP Variants. ACM Transactions on Algorithms, 2021, 17, 1-29.	1.0	5
43	FPT is characterized by useful obstruction sets. ACM Transactions on Computation Theory, 2014, 6, 1-26.	0.7	4
44	Turing Kernelization for Finding Long Paths in Graph Classes Excluding a Topological Minor. Algorithmica, 2019, 81, 3936-3967.	1.3	4
45	Optimal Sparsification for Some Binary CSPs Using Low-Degree Polynomials. ACM Transactions on Computation Theory, 2019, 11, 1-26.	0.7	4
46	Improved automated early detection of breast cancer based on high resolution 3D micro-CT microcalcification images. BMC Cancer, 2022, 22, 162.	2.6	4
47	Best-Case and Worst-Case Sparsifiability of Boolean CSPs. Algorithmica, 2020, 82, 2200-2242.	1.3	2
48	A Turing kernelization dichotomy for structural parameterizations of F-Minor-Free Deletion. Journal of Computer and System Sciences, 2021, 119, 164-182.	1.2	2
49	Independent-set reconfiguration thresholds of hereditary graph classes. Discrete Applied Mathematics, 2018, 250, 165-182.	0.9	1
50	The Effect of Space-filling Curves on the Efficiency of Hand Gesture Recognition Based on sEMG Signals. International Journal of Electrical and Computer Engineering Systems, 2021, 12, 23-31.	0.6	1
51	Preprocessing vertex-deletion problems: Characterizing graph properties by low-rank adjacencies. Journal of Computer and System Sciences, 2022, 126, 59-79.	1.2	1
52	A Hybrid Approach for Designing Dynamic and Data-Driven Clinical Pathways Point of Care Instruments in Low Resource Settings. Studies in Health Technology and Informatics, 2022, , .	0.3	1
53	Preprocessing for Outerplanar Vertex Deletion: An Elementary Kernel of Quartic Size. Algorithmica, 2022, 84, 3407-3458.	1.3	1
54	The Action Game. Interaction Studies, 2012, 13, 285-313.	0.6	0

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55	Lower bounds for protrusion replacement by counting equivalence classes. Discrete Applied Mathematics, 2020, 278, 12-27.	0.9	0
56	Behavior-based Speciation in Classification with NeuroEvolution. , 2020, , .		0
57	Special Issue Dedicated to the 14th International Symposium on Parameterized and Exact Computation. Algorithmica, 2021, 83, 2469-2470.	1.3	0
58	A Turing Kernelization Dichotomy for Structural Parameterizations of $\mathcal{F}$ -Minor-Free Deletion. Lecture Notes in Computer Science, 2019, , 106-119.	1.3	0
59	Crossing Paths with Hans Bodlaender: A Personal View on Cross-Composition for Sparsification Lower Bounds. Lecture Notes in Computer Science, 2020, , 89-111.	1.3	0
60	Iris Segmentation based on an Optimized U-Net. , 2022, , .		0