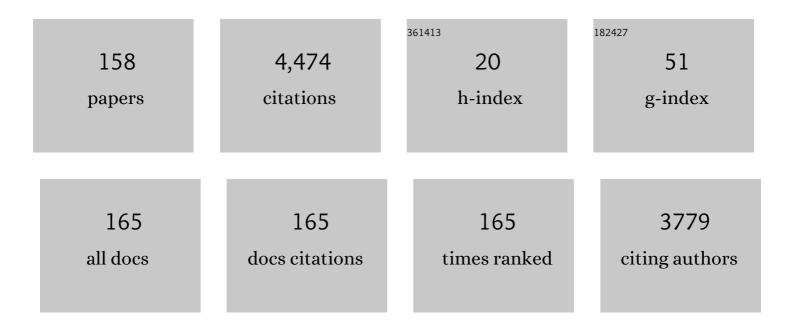
## **Christian Bauckhage**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/772932/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Evaluation of Interest Point Detectors. International Journal of Computer Vision, 2000, 37, 151-172.	15.6	1,169
2	The slashdot zoo. , 2009, , .		300
3	Informed Haar-Like Features Improve Pedestrian Detection. , 2014, , .		221
4	Informed Machine Learning - A Taxonomy and Survey of Integrating Prior Knowledge into Learning Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	178
5	Loveparade 2010: Automatic video analysis of a crowd disaster. Computer Vision and Image Understanding, 2012, 116, 307-319.	4.7	141
6	Early drought stress detection in cereals: simplex volume maximisation for hyperspectral image analysis. Functional Plant Biology, 2012, 39, 878.	2.1	119
7	Propagation kernels: efficient graph kernels from propagated information. Machine Learning, 2016, 102, 209-245.	5.4	118
8	Guns, swords and data: Clustering of player behavior in computer games in the wild. , 2012, , .		107
9	Predicting player churn in the wild. , 2014, , .		102
10	Plant Phenotyping using Probabilistic Topic Models: Uncovering the Hyperspectral Language of Plants. Scientific Reports, 2016, 6, 22482.	3.3	96
11	Metro Maps of Plant Disease Dynamics—Automated Mining of Differences Using Hyperspectral Images. PLoS ONE, 2015, 10, e0116902.	2.5	90
12	Clustering Game Behavior Data. IEEE Transactions on Games, 2015, 7, 266-278.	1.4	73
13	I tag, you tag. , 2010, , .		69
14	How players lose interest in playing a game: An empirical study based on distributions of total playing times. , 2012, , .		67
15	Descriptive matrix factorization for sustainability Adopting the principle of opposites. Data Mining and Knowledge Discovery, 2012, 24, 325-354.	3.7	53
16	Action recognition by learning discriminative key poses. , 2011, , .		50
17	Automatic detection of abnormal gait. Image and Vision Computing, 2009, 27, 108-115.	4.5	47

18 Malware Detection on Mobile Devices Using Distributed Machine Learning. , 2010, , .

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#	Article	IF	CITATIONS
19	The Playtime Principle: Large-scale cross-games interest modeling. , 2014, , .		44
20	Game Data Mining. , 2013, , 205-253.		41
21	Convex Non-negative Matrix Factorization in the Wild. , 2009, , .		40
22	Fast moving pedestrian detection based on motion segmentation and new motion features. Multimedia Tools and Applications, 2016, 75, 6263-6282.	3.9	40
23	Making Archetypal Analysis Practical. Lecture Notes in Computer Science, 2009, , 272-281.	1.3	38
24	Towards 3D Internet: Why, What, and How?. , 2007, , .		37
25	Learning Human-Like Opponent Behavior for Interactive Computer Games. Lecture Notes in Computer Science, 2003, , 148-155.	1.3	33
26	Convex non-negative matrix factorization for massive datasets. Knowledge and Information Systems, 2011, 29, 457-478.	3.2	32
27	Data Mining and Pattern Recognition in Agriculture. KI - Kunstliche Intelligenz, 2013, 27, 313-324.	3.2	31
28	The Good, the Bad, and the Ugly: Predicting Aesthetic Image Labels. , 2010, , .		28
29	Erosion Band Features for Cell Phone Image Based Plant Disease Classification. , 2014, , .		27
30	Temporal key poses for human action recognition. , 2011, , .		26
31	Efficient Subframe Video Alignment Using Short Descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2371-2386.	13.9	26
32	Yes we can. , 2010, , .		25
33	Non-negative factor analysis supporting the interpretation of elemental distribution images acquired by XRF. Journal of Physics: Conference Series, 2014, 499, 012013.	0.4	25
34	Analyzing the Evolution of Social Groups in World of Warcraft <sup>Å@</sup> ., 2010, , .		24
35	An XML based framework for cognitive vision architectures. , 2004, , .		23
36	Network growth and the spectral evolution model. , 2010, , .		22

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#	Article	IF	CITATIONS
37	Behavior evolution in Tomb Raider Underworld. , 2013, , .		22
38	Efficient Pose-Based Action Recognition. Lecture Notes in Computer Science, 2015, , 428-443.	1.3	22
39	Exploring Human Vision Driven Features for Pedestrian Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1709-1720.	8.3	20
40	Combining speech and haptics for intuitive and efficient navigation through image databases. , 2003, , .		19
41	Analyzing pedestrian behavior in crowds for automatic detection of congestions. , 2011, , .		19
42	Beyond heatmaps: Spatio-temporal clustering using behavior-based partitioning of game levels. , 2014, ,		19
43	Automatic detection of dangerous motion behavior in human crowds. , 2011, , .		18
44	Action recognition in still images by learning spatial interest regions from videos. Pattern Recognition Letters, 2015, 51, 8-15.	4.2	18
45	Predicting Retention in Sandbox Games with Tensor Factorization-based Representation Learning. , 2016, , .		18
46	Non-negative matrix factorization for the near real-time interpretation of absorption effects in elemental distribution images acquired by X-ray fluorescence imaging. Journal of Synchrotron Radiation, 2016, 23, 579-589.	2.4	18
47	Triple Classification Using Regions and Fine-Grained Entity Typing. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 77-85.	4.9	18
48	Human activity recognition by separating style and content. Pattern Recognition Letters, 2014, 50, 130-138.	4.2	17
49	Prediction of successful memory encoding based on single-trial rhinal and hippocampal phase information. NeuroImage, 2016, 139, 127-135.	4.2	17
50	Bounding box splitting for robust shape classification. , 2005, , .		15
51	Simplex Volume Maximization (SiVM): A matrix factorization algorithm with non-negative constrains and low computing demands for the interpretation of full spectral X-ray fluorescence imaging data. Microchemical Journal, 2017, 132, 179-184.	4.5	15
52	Detecting Abnormal Gait. , 0, , .		14
53	Bayesian Imitation of Human Behavior in Interactive Computer Games. , 2006, , .		14
54	Synthesizing Movements for Computer Game Characters. Lecture Notes in Computer Science, 2004, , 179-186.	1.3	13

#	Article	IF	CITATIONS
55	Face Recognition with Weighted Locally Linear Embedding. , 0, , .		13
56	Simplex Distributions for Embedding Data Matrices over Time. , 2012, , .		13
57	Deep learning supports the differentiation of alcoholic and other-than-alcoholic cirrhosis based on MRI. Scientific Reports, 2022, 12, 8297.	3.3	13
58	Detecting Trends in Social Bookmarking Systems. International Journal of Data Warehousing and Mining, 2010, 6, 38-57.	0.6	12
59	Efficient Pedestrian Detection via Rectangular Features Based on a Statistical Shape Model. IEEE Transactions on Intelligent Transportation Systems, 2014, , 1-13.	8.0	12
60	Towards Contradiction Detection in German: a Translation-Driven Approach. , 2019, , .		12
61	Robust Tensor Classifiers for Color Object Recognition. Lecture Notes in Computer Science, 2007, , 352-363.	1.3	12
62	FROM IMAGE FEATURES TO SYMBOLS AND VICE VERSA — USING GRAPHS TO LOOP DATA- AND MODEL-DRIVEN PROCESSING IN VISUAL ASSEMBLY RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 497-517.	1.2	11
63	Bayesian imitation learning in game characters. International Journal of Intelligent Systems Technologies and Applications, 2007, 2, 284.	0.2	11
64	Alternative similarity functions for graph kernels. , 2008, , .		11
65	Spectral evolution in dynamic networks. Knowledge and Information Systems, 2013, 37, 1-36.	3.2	11
66	A Probabilistic Diffusion Scheme for Anomaly Detection on Smartphones. Lecture Notes in Computer Science, 2010, , 31-46.	1.3	11
67	Agricultural plant cataloging and establishment of a data framework from UAV-based crop images by computer vision. GigaScience, 2022, 11, .	6.4	11
68	Action Recognition in Videos Using Nonnegative Tensor Factorization. , 2010, , .		10
69	Ising Models for Binary Clustering viaÂAdiabatic Quantum Computing. Lecture Notes in Computer Science, 2018, , 3-17.	1.3	10
70	Echo State Networks for Named Entity Recognition. Lecture Notes in Computer Science, 2019, , 110-120.	1.3	10
71	Discriminative Joint Non-negative Matrix Factorization for Human Action Classification. Lecture Notes in Computer Science, 2013, , 61-70.	1.3	10
72	The "Spree" Expert Finding System. , 2007, , .		9

The "Spree" Expert Finding System. , 2007, , . 72

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#	Article	IF	CITATIONS
73	Performance of ECGâ€based seizure detection algorithms strongly depends on training and test conditions. Epilepsia Open, 2021, 6, 597-606.	2.4	9
74	Cognitive Agents for Microscopic Traffic Simulations in Virtual Environments. Lecture Notes in Computer Science, 2012, , 318-325.	1.3	9
75	MALADY: A Machine Learning-Based Autonomous Decision-Making System for Sensor Networks. , 2009, ,		8
76	Archetypical motion: Supervised game behavior learning with Archetypal Analysis. , 2013, , .		8
77	High dimensional low sample size activity recognition using geometric classifiers. , 2015, 42, 61-69.		8
78	User Churn Migration Analysis with DEDICOM. , 2015, , .		8
79	Problem Solving with Hopfield Networks and Adiabatic Quantum Computing. , 2020, , .		8
80	Using Echo State Networks for Cryptography. Lecture Notes in Computer Science, 2017, , 663-671.	1.3	8
81	Deterministic CUR for Improved Large-Scale Data Analysis: An Empirical Study. , 2012, , .		8
82	Anonymization of German financial documents using neural network-based language models with contextual word representations. International Journal of Data Science and Analytics, 2022, 13, 151-161.	4.1	8
83	Mosaics from Arbitrary Stereo Video Sequences. Lecture Notes in Computer Science, 2004, , 342-349.	1.3	7
84	Vision Systems with the Human in the Loop. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	7
85	The visual active memory perspective on integrated recognition systems. Image and Vision Computing, 2008, 26, 5-14.	4.5	7
86	Moving pedestrian detection based on motion segmentation. , 2013, , .		7
87	Kernel Archetypal Analysis for Clustering Web Search Frequency Time Series. , 2014, , .		7
88	Tackling Contradiction Detection in German Using Machine Translation and End-to-End Recurrent Neural Networks. , 2021, , .		7
89	Tree-Based Signatures for Shape Classification. , 2006, , .		6
90	An unsupervised hierarchical approach to document categorization. , 2007, , .		6

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91	A lightweight biometric signature scheme for user authentication over networks. , 2008, , .		6
92	A distributed machine learning framework. , 2009, , .		6
93	An Efficient Ontology-Based Expert Peering System. Lecture Notes in Computer Science, 2007, , 273-282.	1.3	6
94	Investigating CAPTCHAs Based on Visual Phenomena. Lecture Notes in Computer Science, 2009, , 745-748.	1.3	6
95	Separable Linear Discriminant Classification. Lecture Notes in Computer Science, 2005, , 318-325.	1.3	6
96	Integration frameworks for large scale cognitive vision systems - an evaluative study. , 2004, , .		5
97	Age Recognition in the Wild. , 2010, , .		5
98	Agriculture's Technological Makeover. IEEE Pervasive Computing, 2012, 11, 4-7.	1.3	5
99	A Neural Network Implementation ofÂFrank-Wolfe Optimization. Lecture Notes in Computer Science, 2017, , 219-226.	1.3	5
100	Grammars and Discourse Theory to Describe and Recognize Mechanical Assemblies. Lecture Notes in Computer Science, 2000, , 173-182.	1.3	5
101	Image Tagging Using PageRank over Bipartite Graphs. Lecture Notes in Computer Science, 2008, , 426-435.	1.3	5
102	An intelligent knowledge sharing system for web communities. , 2007, , .		4
103	A new evaluation measure for information retrieval systems. , 2007, , .		4
104	Image retrieval and Web 2.0 — where can we go from here?. , 2008, , .		4
105	More influence means less work. , 2011, , .		4
106	Feeding the World with Big Data: Uncovering Spectral Characteristics and Dynamics of Stressed Plants. Studies in Computational Intelligence, 2016, , 99-120.	0.9	4
107	Prediction of memory formation based on absolute electroencephalographic phases in rhinal cortex and hippocampus outperforms prediction based on stimulusâ€related phase shifts. European Journal of Neuroscience, 2018, 47, 824-831.	2.6	4
108	Joint Selection of Central and Extremal Prototypes Based on Kernel Minimum Enclosing Balls. , 2019, , .		4

#	Article	IF	CITATIONS
109	Novelty Discovery with Kernel Minimum Enclosing Balls. Lecture Notes in Computer Science, 2020, , 414-420.	1.3	4
110	Memory consistency validation in a cognitive vision system. , 2004, , .		3
111	Towards manifold learning for gamebot behavior modeling. , 2005, , .		3
112	Fast Learning for Customizable Head Pose Recognition in Robotic Wheelchair Control. , 0, , .		3
113	A discrete-time parallel update algorithm for distributed learning. , 2008, , .		3
114	Archetypal Images in Large Photo Collections. , 2009, , .		3
115	Subspace manifold learning with sample weights. Image and Vision Computing, 2009, 27, 80-86.	4.5	3
116	Who is doing what? Simultaneous recognition of actions and actors. , 2012, , .		3
117	Efficient Learning for Hashing Proportional Data. , 2012, , .		3
118	Can Computers Learn from the Aesthetic Wisdom of the Crowd?. KI - Kunstliche Intelligenz, 2013, 27, 25-35.	3.2	3
119	Efficient Mesoscopic Simulations for Persistent Agents in 3D-Applications and Games. , 2013, , .		3
120	Synthetic perception for intelligent virtual agents. , 2014, , .		3
121	The Age of Analytics. IEEE Transactions on Games, 2015, 7, 205-206.	1.4	3
122	Automatic mapping of human behavior data to personality model parameters for traffic simulations in virtual environments. , 2015, , .		3
123	Simple Recurrent Neural Networks for Support Vector Machine Training. Lecture Notes in Computer Science, 2018, , 13-22.	1.3	3
124	Matrix- and Tensor Factorization for Game Content Recommendation. KI - Kunstliche Intelligenz, 2020, 34, 57-67.	3.2	3
125	Hopfield Networks for Vector Quantization. Lecture Notes in Computer Science, 2020, , 192-203.	1.3	3
126	Towards Intelligent Food Waste Prevention: An Approach Using Scalable and Flexible Harvest Schedule Optimization With Evolutionary Algorithms. IEEE Access, 2021, 9, 169044-169055.	4.2	3

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127	The Snippet Statistics of Font Recognition. , 2010, , .		2
128	Adapting Information Theoretic Clustering to Binary Images. , 2010, , .		2
129	Gait recognition by learning distributed key poses. , 2012, , .		2
130	Center-Surround Contrast Features for Pedestrian Detection. , 2014, , .		2
131	Collective Attention on the Web. Foundations and Trends in Web Science, 2016, 5, 1-136.	0.5	2
132	Interpretable Topic Extraction and Word Embedding Learning Using Non-Negative Tensor DEDICOM. Machine Learning and Knowledge Extraction, 2021, 3, 123-167.	5.0	2
133	A Stochastic Late Fusion Approach to Human Action Recognition in Unconstrained Images and Videos. Lecture Notes in Computer Science, 2014, , 616-628.	1.3	2
134	Separable Linear Classifiers for Online Learning in Appearance Based Object Detection. Lecture Notes in Computer Science, 2005, , 347-354.	1.3	2
135	Content-based image retrieval by multimodal interaction. , 0, , .		1
136	A Structural Framework for Assembly Modeling and Recognition. Lecture Notes in Computer Science, 2003, , 49-56.	1.3	1
137	Classification of Team Behaviors in Sports Video Games. , 2006, , .		1
138	Tensor-Based Filter Design using Kernel Ridge Regression. , 2007, , .		1
139	Tailoring Taxonomies for Efficient Text Categorization and Expert Finding. , 2008, , .		1
140	Adaptive wireless services for augmented environments. , 2009, , .		1
141	SPSA for Layer-Wise Training of Deep Networks. Lecture Notes in Computer Science, 2018, , 564-573.	1.3	1
142	Image Space I 3 and Eigen Curvature for Illumination Insensitive Face Detection. Lecture Notes in Computer Science, 2005, , 456-463.	1.3	1
143	Cognitive Aspects of Traffic Simulations in Virtual Environments. SNE Simulation Notes Europe, 2012, 22, .	0.3	1
144	Interpretable Topic Extraction and Word Embedding Learning Using Row-Stochastic DEDICOM. Lecture Notes in Computer Science, 2020, , 401-422.	1.3	1

#	Article	IF	CITATIONS
145	Cell Phone Image-Based Plant Disease Classification. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 295-322.	0.4	1
146	Fast, Illumination Insensitive Face Detection Based on Multilinear Techniques and Curvature Features. , 2006, , .		0
147	Benefits of Separable, Multilinear Discriminant Classification. , 2006, , .		0
148	Usability Evaluation for Image Retrieval Beyond Desktop Applications. , 2006, , .		0
149	A Fast, Feature-based Cluster Algorithm for Information Retrieval. , 2007, , .		0
150	Integral correlograms and probabilistic diffusion for image tagging. , 2008, , .		0
151	Probabilistic Diffusion Classifiers for Object Detection. , 2008, , .		0
152	Reverse Indexing for Reading Graffiti Tags. , 2010, , .		0
153	Matrix Factorization as Search. Lecture Notes in Computer Science, 2012, , 850-853.	1.3	0
154	Extracting Salient Points and Parts of Shapes Using Modified kd-Trees. Lecture Notes in Computer Science, 2007, , 995-1002.	1.3	0
155	Cell Phone Image-Based Plant Disease Classification. , 2017, , 778-805.		0
156	Investigating and Forecasting User Activities in Newsblogs: A Study of Seasonality, Volatility and Attention Burst. , 2017, , 19-24.		0
157	tanh Neurons Are Bayesian Decision Makers. Advances in Intelligent Systems and Computing, 2021, , 703-707.	0.6	0
158	Shells within Minimum Enclosing Balls. , 2020, , .		0