Lawrence Carin

List of Publications by Year in descending order

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285 papers 14,674 citations

51 h-index 25770 108 g-index

287 all docs

287 docs citations

times ranked

287

14170 citing authors

#	Article	IF	CITATIONS
1	Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2008, 56, 2346-2356.	3.2	1,837
2	Digital technology and COVID-19. Nature Medicine, 2020, 26, 459-461.	15.2	997
3	Sparse multinomial logistic regression: fast algorithms and generalization bounds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 957-968.	9.7	703
4	Compressive Coded Aperture Spectral Imaging: An Introduction. IEEE Signal Processing Magazine, 2014, 31, 105-115.	4.6	471
5	Gene Expression Signatures Diagnose Influenza and Other Symptomatic Respiratory Viral Infections in Humans. Cell Host and Microbe, 2009, 6, 207-217.	5.1	408
6	Exploiting Structure in Wavelet-Based Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2009, 57, 3488-3497.	3.2	407
7	An Integrated Clinico-Metabolomic Model Improves Prediction of Death in Sepsis. Science Translational Medicine, 2013, 5, 195ra95.	5.8	380
8	Nonparametric Bayesian Dictionary Learning for Analysis of Noisy and Incomplete Images. IEEE Transactions on Image Processing, 2012, 21, 130-144.	6.0	335
9	Coded aperture compressive temporal imaging. Optics Express, 2013, 21, 10526.	1.7	320
10	Bayesian Robust Principal Component Analysis. IEEE Transactions on Image Processing, 2011, 20, 3419-3430.	6.0	302
11	Semantic Compositional Networks for Visual Captioning. , 2017, , .		282
12	Joint Embedding of Words and Labels for Text Classification. , 2018, , .		237
13	Relationship between intracortical electrode design and chronic recording function. Biomaterials, 2013, 34, 8061-8074.	5.7	220
14	Host gene expression classifiers diagnose acute respiratory illness etiology. Science Translational Medicine, 2016, 8, 322ra11.	5.8	202
15	Probabilistic Topic Models. IEEE Signal Processing Magazine, 2010, 27, 55-65.	4.6	201
16	Computational Snapshot Multispectral Cameras: Toward dynamic capture of the spectral world. IEEE Signal Processing Magazine, 2016, 33, 95-108.	4.6	178
17	Temporal Dynamics of Host Molecular Responses Differentiate Symptomatic and Asymptomatic Influenza A Infection. PLoS Genetics, 2011, 7, e1002234.	1.5	173
18	Video Compressive Sensing Using Gaussian Mixture Models. IEEE Transactions on Image Processing, 2014, 23, 4863-4878.	6.0	158

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19	Baseline Needs More Love: On Simple Word-Embedding-Based Models and Associated Pooling Mechanisms. , 2018, , .		158
20	A Host Transcriptional Signature for Presymptomatic Detection of Infection in Humans Exposed to Influenza H1N1 or H3N2. PLoS ONE, 2013, 8, e52198.	1.1	157
21	Compressive Hyperspectral Imaging With Side Information. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 964-976.	7.3	152
22	Nonparametric factor analysis with beta process priors. , 2009, , .		143
23	The potential for Bayesian compressive sensing to significantly reduce electron dose in high-resolution STEM images. Microscopy (Oxford, England), 2014, 63, 41-51.	0.7	140
24	On Classification with Incomplete Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 427-436.	9.7	136
25	Compressive Sensing by Learning a Gaussian Mixture Model From Measurements. IEEE Transactions on Image Processing, 2015, 24, 106-119.	6.0	136
26	Brain-wide Electrical Spatiotemporal Dynamics Encode Depression Vulnerability. Cell, 2018, 173, 166-180.e14.	13.5	135
27	Tree-Structured Compressive Sensing With Variational Bayesian Analysis. IEEE Signal Processing Letters, 2010, 17, 233-236.	2.1	133
28	A Host-Based RT-PCR Gene Expression Signature to Identify Acute Respiratory Viral Infection. Science Translational Medicine, 2013, 5, 203ra126.	5.8	133
29	Logistic regression with an auxiliary data source. , 2005, , .		132
30	A Bayesian approach to joint feature selection and classifier design. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1105-1111.	9.7	128
31	Compressive Sensing on Manifolds Using a Nonparametric Mixture of Factor Analyzers: Algorithm and Performance Bounds. IEEE Transactions on Signal Processing, 2010, 58, 6140-6155.	3.2	117
32	Cost-sensitive feature acquisition and classification. Pattern Recognition, 2007, 40, 1474-1485.	5.1	115
33	Generalized Alternating Projection for Weighted- $\{2,1\}$ Minimization with Applications to Model-Based Compressive Sensing. SIAM Journal on Imaging Sciences, 2014, 7, 797-823.	1.3	114
34	Learning Discriminative Sparse Representations for Modeling, Source Separation, and Mapping of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4263-4281.	2.7	108
35	Negative Binomial Process Count and Mixture Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 307-320.	9.7	100
36	Dysregulation of Prefrontal Cortex-Mediated Slow-Evolving Limbic Dynamics Drives Stress-Induced Emotional Pathology. Neuron, 2016, 91, 439-452.	3.8	98

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37	An Investigation of Using the Spectral Characteristics From Ground Penetrating Radar for Landmine/Clutter Discrimination. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1177-1191.	2.7	93
38	Dictionary Learning for Noisy and Incomplete Hyperspectral Images. SIAM Journal on Imaging Sciences, 2012, 5, 33-56.	1.3	93
39	Spectral-temporal compressive imaging. Optics Letters, 2015, 40, 4054.	1.7	82
40	Bayesian Gaussian Copula Factor Models for Mixed Data. Journal of the American Statistical Association, 2013, 108, 656-665.	1.8	80
41	Deep Learning with Hierarchical Convolutional Factor Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1887-1901.	9.7	80
42	StoryGAN: A Sequential Conditional GAN for Story Visualization. , 2019, , .		73
43	The dynamic hierarchical Dirichlet process. , 2008, , .		72
44	An integrated transcriptome and expressed variant analysis of sepsis survival and death. Genome Medicine, 2014, 6, 111.	3.6	70
45	On Deep Learning for Medical Image Analysis. JAMA - Journal of the American Medical Association, 2018, 320, 1192.	3.8	69
46	Electromagnetic Time-Reversal Source Localization in Changing Media: Experiment and Analysis. IEEE Transactions on Antennas and Propagation, 2007, 55, 344-354.	3.1	68
47	A Bayesian Nonparametric Approach to Image Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 346-358.	9.7	66
48	Semisupervised Multitask Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1074-1086.	9.7	63
49	Bayesian joint analysis of heterogeneous genomics data. Bioinformatics, 2014, 30, 1370-1376.	1.8	63
50	Cybersecurity Strategies: The QuERIES Methodology. Computer, 2008, 41, 20-26.	1.2	62
51	Low-Cost Compressive Sensing for Color Video and Depth. , 2014, , .		62
52	Communications-Inspired Projection Design with Application to Compressive Sensing. SIAM Journal on Imaging Sciences, 2012, 5, 1185-1212.	1.3	60
53	Coded Hyperspectral Imaging and Blind Compressive Sensing. SIAM Journal on Imaging Sciences, 2013, 6, 782-812.	1.3	59
54	Method of moments analysis of electromagnetic scattering from a general three-dimensional dielectric target embedded in a multilayered medium. Radio Science, 2000, 35, 305-313.	0.8	58

#	Article	IF	Citations
55	On the Relationship Between Compressive Sensing and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2009, 51, 72-81.	1.2	58
56	Variational Bayes for continuous hidden Markov models and its application to active learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 522-532.	9.7	56
57	Convolutional neural network to identify symptomatic Alzheimer's disease using multimodal retinal imaging. British Journal of Ophthalmology, 2022, 106, 388-395.	2.1	56
58	Music Analysis Using Hidden Markov Mixture Models. IEEE Transactions on Signal Processing, 2007, 55, 5209-5224.	3.2	55
59	Applying compressive sensing to TEM video: a substantial frame rate increase on any camera. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	55
60	Infinite Hidden Markov Models for Unusual-Event Detection in Video. IEEE Transactions on Image Processing, 2008, 17, 811-822.	6.0	54
61	Electromagnetic Target Detection in Uncertain Media: Time-Reversal and Minimum-Variance Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 934-944.	2.7	53
62	Application of a machine learning algorithm to predict malignancy in thyroid cytopathology. Cancer Cytopathology, 2020, 128, 287-295.	1.4	53
63	Coherence, Compressive Sensing, and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2011, 53, 28-39.	1.2	52
64	Weakly supervised instance learning for thyroid malignancy prediction from whole slide cytopathology images. Medical Image Analysis, 2021, 67, 101814.	7.0	52
65	Diffraction theory of frequency- and time-domain scattering by weakly aperiodic truncated thin-wire gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1291.	0.8	51
66	Compressed sampling strategies for tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1369.	0.8	51
67	Task-Driven Adaptive Statistical Compressive Sensing of Gaussian Mixture Models. IEEE Transactions on Signal Processing, 2013, 61, 585-600.	3.2	47
68	Continuing progress of spike sorting in the era of big data. Current Opinion in Neurobiology, 2019, 55, 90-96.	2.0	47
69	Learning Generic Sentence Representations Using Convolutional Neural Networks., 2017,,.		47
70	Sparse Signal Recovery and Acquisition with Graphical Models. IEEE Signal Processing Magazine, 2010, ,	4.6	45
71	The Matrix Stick-Breaking Process. Journal of the American Statistical Association, 2008, 103, 317-327.	1.8	44
72	Artificial Intelligence Mapping of Structure to Function in Glaucoma. Translational Vision Science and Technology, 2020, 9, 19.	1.1	42

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73	Incomplete-data classification using logistic regression. , 2005, , .		41
74	Hidden Markov Models With Stick-Breaking Priors. IEEE Transactions on Signal Processing, 2009, 57, 3905-3917.	3.2	40
75	Image translation for single-shot focal tomography. Optica, 2015, 2, 822.	4.8	39
76	SAGES consensus recommendations on an annotation framework for surgical video. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 4918-4929.	1.3	39
77	Anomaly detection for medical images based on a one-class classification. , 2018, , .		39
78	Application of the theory of optimal experiments to adaptive electromagnetic-induction sensing of buried targets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 961-972.	9.7	38
79	The contextual focused topic model. , 2012, , .		38
80	Hierarchical Bayesian Modeling of Topics in Time-Stamped Documents. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 996-1011.	9.7	37
81	Adaptive temporal compressive sensing for video. , 2013, , .		36
82	Multichannel Electrophysiological Spike Sorting via Joint Dictionary Learning and Mixture Modeling. IEEE Transactions on Biomedical Engineering, 2014, 61, 41-54.	2.5	35
83	Machine-learning-based multiple abnormality prediction with large-scale chest computed tomography volumes. Medical Image Analysis, 2021, 67, 101857.	7.0	35
84	Wasserstein Contrastive Representation Distillation. , 2021, , .		35
85	Reconstruction of Signals Drawn From a Gaussian Mixture Via Noisy Compressive Measurements. IEEE Transactions on Signal Processing, 2014, 62, 2265-2277.	3.2	34
86	Joint Classifier and Feature Optimization for Comprehensive Cancer Diagnosis Using Gene Expression Data. Journal of Computational Biology, 2004, 11, 227-242.	0.8	32
87	Multi-task compressive sensing with Dirichlet process priors. , 2008, , .		32
88	Bayesian compressive sensing and projection optimization., 2007,,.		31
89	Classification and Reconstruction of High-Dimensional Signals From Low-Dimensional Features in the Presence of Side Information. IEEE Transactions on Information Theory, 2016, 62, 6459-6492.	1.5	31
90	NASH: Toward End-to-End Neural Architecture for Generative Semantic Hashing., 2018,,.		31

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91	Nonmyopic Multiaspect Sensing With Partially Observable Markov Decision Processes. IEEE Transactions on Signal Processing, 2007, 55, 2720-2730.	3.2	30
92	Migratory Logistic Regression for Learning Concept Drift Between Two Data Sets With Application to UXO Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1454-1466.	2.7	29
93	Bayesian inference of the number of factors in gene-expression analysis: application to human virus challenge studies. BMC Bioinformatics, 2010, 11, 552.	1.2	29
94	Dual hidden Markov model for characterizing wavelet coefficients from multi-aspect scattering data. Signal Processing, 2001, 81, 1303-1316.	2.1	28
95	Compressive sensing for multi-static scattering analysis. Journal of Computational Physics, 2009, 228, 3464-3477.	1.9	28
96	Active learning for online bayesian matrix factorization. , 2012, , .		28
97	Dynamically Timed Stimulation of Corticolimbic Circuitry Activates a Stress-Compensatory Pathway. Biological Psychiatry, 2017, 82, 904-913.	0.7	28
98	A simple preconditioner for electric-field integral equations. Microwave and Optical Technology Letters, 2001, 30, 51-54.	0.9	27
99	Quantitative Arbor Analytics: Unsupervised Harmonic Co-Clustering of Populations of Brain Cell Arbors Based on L-Measure. Neuroinformatics, 2015, 13, 47-63.	1.5	27
100	Multi-shot Imaging: Joint Alignment, Deblurring, and Resolution-Enhancement., 2014, , .		26
101	Multiaspect identification of submerged elastic targets via wave-based matching pursuits and hidden Markov models. Journal of the Acoustical Society of America, 1999, 106, 605-616.	0.5	25
102	<i>In situ</i> compressive sensing. Inverse Problems, 2008, 24, 015023.	1.0	25
103	On Artificial Intelligence and Deep Learning Within Medical Education. Academic Medicine, 2020, 95, S10-S11.	0.8	25
104	Detection of Viruses Via Statistical Gene Expression Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 468-479.	2.5	24
105	Predicting Viral Infection From High-Dimensional Biomarker Trajectories. Journal of the American Statistical Association, 2011, 106, 1259-1279.	1.8	24
106	An Active Learning Approach for Rapid Characterization of Endothelial Cells in Human Tumors. PLoS ONE, 2014, 9, e90495.	1.1	24
107	Wideband time-reversal imaging of an elastic target in an acoustic waveguide. Journal of the Acoustical Society of America, 2004, 115, 259-268.	0.5	23
108	Compressive particle filtering for target tracking. , 2009, , .		23

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109	Active Learning and Basis Selection for Kernel-Based Linear Models: A Bayesian Perspective. IEEE Transactions on Signal Processing, 2010, 58, 2686-2700.	3.2	23
110	Experimental validation of a transport-based imaging method in highly scattering environments. Inverse Problems, 2007, 23, 2527-2539.	1.0	22
111	Semisupervised Learning of Hidden Markov Models via a Homotopy Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 275-287.	9.7	22
112	Nonparametric Bayesian matrix completion. , 2010, , .		22
113	Learning Low-Dimensional Signal Models. IEEE Signal Processing Magazine, 2011, 28, 39-51.	4.6	22
114	Off-policy reinforcement learning with Gaussian processes. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 227-238.	8.5	22
115	Signal processing for NQR discrimination of buried land mines. , 1999, 3710, 474.		20
116	Efficient patch-based approach for compressive depth imaging. Applied Optics, 2016, 55, 7556.	2.1	20
117	A modified SPIHT algorithm for image coding with a joint MSE and classification distortion measure. IEEE Transactions on Image Processing, 2006, 15, 713-725.	6.0	19
118	Hierarchical Infinite Divisibility for Multiscale Shrinkage. IEEE Transactions on Signal Processing, 2014, 62, 4363-4374.	3.2	19
119	Multivariate time-series analysis and diffusion maps. Signal Processing, 2015, 116, 13-28.	2.1	19
120	Hierarchical kernel stick-breaking process for multi-task image analysis. , 2008, , .		18
121	Survival cluster analysis., 2020,,.		18
122	Logistic Stick-Breaking Process. Journal of Machine Learning Research, 2011, 12, 203-239.	62.4	18
123	Wideband electromagnetic induction for metal-target identification: theory, measurement, and signal processing. , 1998 , , .		17
124	Fast multipole method for scattering from 3-D PEC targets situated in a half-space environment. Microwave and Optical Technology Letters, 1999, 21, 399-405.	0.9	17
125	Pseudospectral method based on prolate spheroidal wave functions for semiconductor nanodevice simulation. Computer Physics Communications, 2006, 175, 78-85.	3.0	17
126	Sticky Hidden Markov Modeling of Comparative Genomic Hybridization. IEEE Transactions on Signal Processing, 2010, 58, 5353-5368.	3.2	17

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127	High-Dimensional Longitudinal Genomic Data: An analysis used for monitoring viral infections. IEEE Signal Processing Magazine, 2012, 29, 108-123.	4.6	17
128	Quadratically gated mixture of experts for incomplete data classification. , 2007, , .		16
129	The matrix stick-breaking process for flexible multi-task learning. , 2007, , .		16
130	Dynamic Nonparametric Bayesian Models for Analysis of Music. Journal of the American Statistical Association, 2010, 105, 458-472.	1.8	16
131	Automatic threat recognition of prohibited items at aviation checkpoint with x-ray imaging: a deep learning approach. , 2018 , , .		16
132	An interpretable deep learning workflow for discovering subvisual abnormalities in CT scans of COVID-19 inpatients and survivors. Nature Machine Intelligence, 2022, 4, 494-503.	8.3	16
133	Beam-tracing-based inverse scattering for general aperture antennas. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2219.	0.8	15
134	Discriminative sparse representations in hyperspectral imagery. , 2010, , .		15
135	A Bregman Matrix and the Gradient of Mutual Information for Vector Poisson and Gaussian Channels. IEEE Transactions on Information Theory, 2014, 60, 2611-2629.	1.5	15
136	Estimation of the CSAâ€ODF using Bayesian compressed sensing of multiâ€shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485.	1.9	15
137	Nonlocal Low-Rank Tensor Factor Analysis for Image Restoration. , 2018, , .		15
138	Time-domain wave-oriented data processing of scattering by nonuniform truncated gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2685.	0.8	14
139	Multilevel fast multipole algorithm for three-dimensional dielectric targets in the vicinity of a lossy half space. Microwave and Optical Technology Letters, 2001, 29, 100-104.	0.9	14
140	Three-Dimensional Bayesian Inversion With Application to Subsurface Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1258-1270.	2.7	14
141	Sparse linear regression with beta process priors. , 2010, , .		14
142	Learning Weight Uncertainty with Stochastic Gradient MCMC for Shape Classification., 2016,,.		14
143	Scalable Bayesian Learning of Recurrent Neural Networks for Language Modeling. , 2017, , .		14
144	Frequency and time domain Braggâ€modulated ray acoustics for truncated periodic arrays. Journal of the Acoustical Society of America, 1994, 95, 638-649.	0.5	13

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145	Multiresolution time domain analysis of scattering from a rough dielectric surface. Radio Science, 2000, 35, 1279-1292.	0.8	13
146	Wide-area detection of land mines and unexploded ordnance. Inverse Problems, 2002, 18, 575-609.	1.0	13
147	Information-Theoretic Compressive Measurement Design. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1150-1164.	9.7	13
148	Scalable Bayesian Non-negative Tensor Factorization for Massive Count Data. Lecture Notes in Computer Science, 2015, , 53-70.	1.0	13
149	Time-reversal imaging for classification of submerged elastic targets via Gibbs sampling and the Relevance Vector Machine. Journal of the Acoustical Society of America, 2005, 117, 1999-2011.	0.5	12
150	Rapid Prolate Pseudospectral Differentiation and Interpolation with the Fast Multipole Method. SIAM Journal of Scientific Computing, 2006, 28, 485-497.	1.3	12
151	Gaussian mixture model for video compressive sensing. , 2013, , .		12
152	Signal Recovery and System Calibration from Multiple Compressive Poisson Measurements. SIAM Journal on Imaging Sciences, 2015, 8, 1923-1954.	1.3	12
153	Unexploded ordnance detection using Bayesian physics-based data fusion. Integrated Computer-Aided Engineering, 2003, 10, 231-247.	2.5	12
154	Photoconductively switched antennas for measuring target resonances. Applied Physics Letters, 1994, 64, 2178-2180.	1.5	11
155	Multi-task learning for sequential data via iHMMs and the nested Dirichlet process. , 2007, , .		11
156	Classification of Unexploded Ordnance Using Incomplete Multisensor Multiresolution Data. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2364-2373.	2.7	11
157	Online Bayesian dictionary learning for large datasets. , 2012, , .		11
158	Joint classifier and feature optimization for cancer diagnosis using gene expression data., 2003,,.		11
159	Efficient analytical-numerical modelling of ultra-wideband pulsed plane wave scattering. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1993, 6, 3-17.	1.2	10
160	Frequency-domain scattering by nonuniform truncated arrays: wave-oriented data processing for inversion and imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2675.	0.8	10
161	Multi-Task Learning for Analyzing and Sorting Large Databases of Sequential Data. IEEE Transactions on Signal Processing, 2008, 56, 3918-3931.	3.2	10
162	Spatio-Temporal Modeling of Legislation and Votes. Bayesian Analysis, 2013, 8, .	1.6	10

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163	RetiNerveNet: using recursive deep learning to estimate pointwise 24-2 visual field data based on retinal structure. Scientific Reports, 2021, 11, 12562.	1.6	10
164	Wave-based matching-pursuits detection of submerged elastic targets. Journal of the Acoustical Society of America, 1998, 104, 937-946.	0.5	9
165	HMM-based multiresolution image segmentation. , 2002, , .		9
166	Classification of distant targets situated near channel bottoms. Journal of the Acoustical Society of America, 2004, 115, 1185-1197.	0.5	9
167	Compressive Sensing for Video Using a Passive Coding Element. , 2013, , .		9
168	Quantitative profiling of microglia populations using harmonic co-clustering of arbor morphology measurements. , 2013, , .		9
169	Stochastic Spectral Descent for Discrete Graphical Models. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 296-311.	7.3	9
170	Shortâ€pulse scattering measurements from dielectric spheres using photoconductively switched antennas. Applied Physics Letters, 1993, 62, 1301-1303.	1.5	8
171	ICA and PLS modeling for functional analysis and drug sensitivity for DNA microarray signals. , 2002, , .		8
172	Adaptive Multimodality Sensing of Landmines. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1756-1774.	2.7	8
173	Compressive STEM-EELS. Microscopy and Microanalysis, 2016, 22, 560-561.	0.2	8
174	Compressive extended depth of field using image space coding. , 2014, , .		8
175	Multilevel fast multipole algorithm for general dielectric targets in the presence of a lossy half-space. Radio Science, 2001, 36, 1271-1285.	0.8	7
176	Model-based statistical signal processing for UXO discrimination: performance results from the JPG-V demonstration. , 2003 , , .		7
177	Adapted statistical compressive sensing: Learning to sense gaussian mixture models. , 2012, , .		7
178	Temporal Compressive Sensing for Video. Applied and Numerical Harmonic Analysis, 2015, , 41-74.	0.1	7
179	Coded Aperture Compressive Spectral-Temporal Imaging. , 2015, , .		7
180	Observations and Lessons Learned From the Artificial Intelligence Studies for Diabetic Retinopathy Screening. JAMA Ophthalmology, 2019, 137, 994.	1.4	7

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181	Use of Machine Learning–Based Software for the Screening of Thyroid Cytopathology Whole Slide Images. Archives of Pathology and Laboratory Medicine, 2022, 146, 872-878.	1.2	7
182	Parallel implementation of the biorthogonal multiresolution time-domain method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 844.	0.8	6
183	Volumetric fast multipole method for modeling Schrödinger's equation. Journal of Computational Physics, 2007, 224, 941-955.	1.9	6
184	Classification with Incomplete Data Using Dirichlet Process Priors. Journal of Machine Learning Research, 2010, 11, 3269-3311.	62.4	6
185	WAFFLe: Weight Anonymized Factorization for Federated Learning. IEEE Access, 2022, 10, 49207-49218.	2.6	6
186	Efficient evaluation of the half-space Green's function for fast-multipole scattering models. Microwave and Optical Technology Letters, 2001, 29, 388-392.	0.9	5
187	Inverse scattering with sparse Bayesian vector regression. Inverse Problems, 2004, 20, S217-S231.	1.0	5
188	Analysis of wideband forward looking synthetic aperture radar for sensing land mines. Radio Science, 2004, 39, n/a-n/a.	0.8	5
189	Direct algorithm for computation of derivatives of the Daubechies basis functions. Applied Mathematics and Computation, 2005, 170, 1006-1013.	1.4	5
190	Analysis, design, and construction of a broadband balun for coaxial-to-planar transmission lines. Microwave and Optical Technology Letters, 2005, 44, 501-504.	0.9	5
191	A Bivariate Gaussian Model for Unexploded Ordnance Classification with EMI Data. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 629-633.	1.4	5
192	Multitask Classification by Learning the Task Relevance. IEEE Signal Processing Letters, 2008, 15, 593-596.	2.1	5
193	A nonparametric Bayesian model for kernel matrix completion. , 2010, , .		5
194	Nonparametric image interpolation and dictionary learning using spatially-dependent Dirichlet and beta process priors. , 2010, , .		5
195	Joint dictionary learning and topic modeling for image clustering. , 2011, , .		5
196	Bayesian topic models for describing computer network behaviors. , 2011, , .		5
197	Latent protein trees. Annals of Applied Statistics, 2013, 7, .	0.5	5
198	Background adaptive faster R-CNN for semi-supervised convolutional object detection of threats in x-ray images. , 2020, , .		5

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199	Image technique for multiresolution time-domain using nonsymmetric basis functions. Microwave and Optical Technology Letters, 2005, 47, 44-47.	0.9	4
200	Region-based value iteration for partially observable Markov decision processes. , 2006, , .		4
201	Multiaspect target detection via the infinite hidden Markov model. Journal of the Acoustical Society of America, 2007, 121, 2731-2742.	0.5	4
202	Active Learning Applied to RCS Computations With Nonuniform Sampling Using Different Objective Functions. IEEE Transactions on Antennas and Propagation, 2007, 55, 1214-1217.	3.1	4
203	Kernel-Matching Pursuits With Arbitrary Loss Functions. IEEE Transactions on Neural Networks, 2009, 20, 395-405.	4.8	4
204	Active learning for semi-supervised multi-task learning. , 2009, , .		4
205	Nonparametric Bayesian Segmentation of a Multivariate Inhomogeneous Space-Time Poisson Process. Bayesian Analysis, 2012, 7, 813-840.	1.6	4
206	Hierarchical factor modeling of proteomics data. , 2012, , .		4
207	TEM Video Compressive Sensing. Microscopy and Microanalysis, 2015, 21, 1583-1584.	0.2	4
208	Alternating Minimization Algorithm with Automatic Relevance Determination for Transmission Tomography under Poisson Noise. SIAM Journal on Imaging Sciences, 2015, 8, 2087-2132.	1.3	4
209	A convergence analysis for a class of practical variance-reduction stochastic gradient MCMC. Science China Information Sciences, 2019, 62, 1.	2.7	4
210	Statistical signal processing for detection of buried land mines using quadrupole resonance., 2000, 4038, 572.		3
211	Physics-model-based unexploded ordnance discrimination using wideband EMI data., 2003,,.		3
212	Order of accuracy analysis for multiresolution time-domain using Daubechies bases. Microwave and Optical Technology Letters, 2005, 45, 290-293.	0.9	3
213	Multi-Aspect Target Classification and Detection via the Infinite Hidden Markov Model. , 2007, , .		3
214	Semi-Supervised Life-Long Learning with Application to Sensing. , 2007, , .		3
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