Lawrence Carin

List of Publications by Year
in descending order

285	14,674	36303	25787
papers	citations	51 h-index	108 g-index

287	287	287	14170
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Convolutional neural network to identify symptomatic Alzheimerâ€™s disease using multimodal retinal imaging. British Journal of Ophthalmology, 2022, 106, 388-395.	3.9	56
2	Use of Machine Learningâ€“Based Software for the Screening of Thyroid Cytopathology Whole Slide Images. Archives of Pathology and Laboratory Medicine, 2022, 146, 872-878.	2.5	7
3	WAFFLe: Weight Anonymized Factorization for Federated Learning. IEEE Access, 2022, 10, 49207-49218.	4.2	6
4	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.	16.0	16
5	Weakly supervised instance learning for thyroid malignancy prediction from whole slide cytopathology images. Medical Image Analysis, 2021, 67, 101814.	11.6	52
6	Machine-learning-based multiple abnormality prediction with large-scale chest computed tomography volumes. Medical Image Analysis, 2021, 67, 101857.	11.6	35
7	RetiNerveNet: using recursive deep learning to estimate pointwise 24-2 visual field data based on retinal structure. Scientific Reports, 2021, 11, 12562.	3.3	10
8	SAGES consensus recommendations on an annotation framework for surgical video. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 4918-4929.	2.4	39
9	In Reply to Prashar and to Savage. Academic Medicine, 2021, 96, 1230-1230.	1.6	0
10	Wasserstein Contrastive Representation Distillation. , 2021, , .		35
11	Artificial Intelligence Mapping of Structure to Function in Glaucoma. Translational Vision Science and Technology, 2020, 9, 19.	2.2	42
12	On Artificial Intelligence and Deep Learning Within Medical Education. Academic Medicine, 2020, 95, S10-S11.	1.6	25
13	Digital technology and COVID-19. Nature Medicine, 2020, 26, 459-461.	30.7	997
14	Application of a machine learning algorithm to predict malignancy in thyroid cytopathology. Cancer Cytopathology, 2020, 128, 287-295.	2.4	53
15	Background adaptive faster R-CNN for semi-supervised convolutional object detection of threats in x-ray images. , 2020, , .		5
16	Survival cluster analysis. , 2020, , .		18
17	Observations and Lessons Learned From the Artificial Intelligence Studies for Diabetic Retinopathy Screening. JAMA Ophthalmology, 2019, 137, 994.	2.5	7
18	Continuing progress of spike sorting in the era of big data. Current Opinion in Neurobiology, 2019, 55, 90-96.	4.2	47

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19	A convergence analysis for a class of practical variance-reduction stochastic gradient MCMC. Science China Information Sciences, 2019, 62, 1.	4.3	4
20	StoryGAN: A Sequential Conditional GAN for Story Visualization. , 2019, , .		73
21	Brain-wide Electrical Spatiotemporal Dynamics Encode Depression Vulnerability. Cell, 2018, 173, 166-180.e14.	28.9	135
22	Nonlocal Low-Rank Tensor Factor Analysis for Image Restoration. , 2018, , .		15
23	On Deep Learning for Medical Image Analysis. JAMA - Journal of the American Medical Association, 2018, 320, 1192.	7.4	69
24	Anomaly detection for medical images based on a one-class classification. , 2018, , .		39
25	Automatic threat recognition of prohibited items at aviation checkpoint with x-ray imaging: a deep learning approach. , 2018, , .		16
26	Baseline Needs More Love: On Simple Word-Embedding-Based Models and Associated Pooling Mechanisms. , 2018, , .		158
27	NASH: Toward End-to-End Neural Architecture for Generative Semantic Hashing. , 2018, , .		31
28	Joint Embedding of Words and Labels for Text Classification. , 2018, , .		237
29	Online Continuous-Time Tensor Factorization Based on Pairwise Interactive Point Processes. , 2018, , .		2
30	Predicting Smoking Events with a Time-Varying Semi-Parametric Hawkes Process Model. Proceedings of Machine Learning Research, 2018, 85, 312-331.	0.3	2
31	Information-Theoretic Compressive Measurement Design. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1150-1164.	13.9	13
32	Dynamically Timed Stimulation of Corticolimbic Circuitry Activates a Stress-Compensatory Pathway. Biological Psychiatry, 2017, 82, 904-913.	1.3	28
33	Semantic Compositional Networks for Visual Captioning. , 2017, , .		282
34	Learning Generic Sentence Representations Using Convolutional Neural Networks. , 2017, , .		47
35	Scalable Bayesian Learning of Recurrent Neural Networks for Language Modeling. , 2017, , .		14
36	Evaluating U.S. Electoral Representation with a Joint Statistical Model of Congressional Roll-Calls, Legislative Text, and Voter Registration Data. , 2017, , .		3

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37	Compressive STEM-EELS. Microscopy and Microanalysis, 2016, 22, 560-561.	0.4	8
38	Dynamic Poisson Factor Analysis. , 2016, , .		2
39	Coded aperture x-ray diffraction imaging with transmission computed tomography side-information. Proceedings of SPIE, 2016, , .	0.8	2
40	Domain and range decomposition methods for coded aperture x-ray coherent scatter imaging. , 2016, , .		0
41	Computational Snapshot Multispectral Cameras: Toward dynamic capture of the spectral world. IEEE Signal Processing Magazine, 2016, 33, 95-108.	5.6	178
42	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.	2.4	31
43	A general framework for reconstruction and classification from compressive measurements with side information. , 2016, , .		1
44	Learning Weight Uncertainty with Stochastic Gradient MCMC for Shape Classification. , 2016, , .		14
45	Compressive Sensing in Microscopy: a Tutorial. Microscopy and Microanalysis, 2016, 22, 2084-2085.	0.4	3
46	Partially observable Markov decision processes for risk-based screening. , 2016, , .		0
47	Dysregulation of Prefrontal Cortex-Mediated Slow-Evolving Limbic Dynamics Drives Stress-Induced Emotional Pathology. Neuron, 2016, 91, 439-452.	8.1	98
48	Host gene expression classifiers diagnose acute respiratory illness etiology. Science Translational Medicine, 2016, 8, 322ra11.	12.4	202
49	Stochastic Spectral Descent for Discrete Graphical Models. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 296-311.	10.8	9
50	Efficient patch-based approach for compressive depth imaging. Applied Optics, 2016, 55, 7556.	2.1	20
51	Performance assessment of image translation-engineered point spread functions. , 2016, , .		0
52	Laplacian Hamiltonian Monte Carlo. Lecture Notes in Computer Science, 2016, , 98-114.	1.3	0
53	TEM Video Compressive Sensing. Microscopy and Microanalysis, 2015, 21, 1583-1584.	0.4	4
54	Spectrally grouped total variation reconstruction for scatter imaging using ADMM. , 2015, , .		3

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55	Applying compressive sensing to TEM video: a substantial frame rate increase on any camera. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	55
56	Multivariate time-series analysis and diffusion maps. Signal Processing, 2015, 116, 13-28.	3.7	19
57	Classification and reconstruction of compressed GMM signals with side information. , 2015, , .		3
58	A concentration-of-measure inequality for multiple-measurement models. , 2015, , .		0
59	Compressive Sensing by Learning a Gaussian Mixture Model From Measurements. IEEE Transactions on Image Processing, 2015, 24, 106-119.	9.8	136
60	Quantitative Arbor Analytics: Unsupervised Harmonic Co-Clustering of Populations of Brain Cell Arbors Based on L-Measure. Neuroinformatics, 2015, 13, 47-63.	2.8	27
61	Negative Binomial Process Count and Mixture Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 307-320.	13.9	100
62	Temporal Compressive Sensing for Video. Applied and Numerical Harmonic Analysis, 2015, , 41-74.	0.3	7
63	Compressive Hyperspectral Imaging With Side Information. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 964-976.	10.8	152
64	Alternating minimization algorithm with iteratively reweighted quadratic penalties for compressive transmission tomography. Proceedings of SPIE, 2015, , .	0.8	0
65	Signal Recovery and System Calibration from Multiple Compressive Poisson Measurements. SIAM Journal on Imaging Sciences, 2015, 8, 1923-1954.	2.2	12
66	Image translation for single-shot focal tomography. Optica, 2015, 2, 822.	9.3	39
67	Coded Aperture Compressive Spectral-Temporal Imaging. , 2015, , .		7
68	Alternating Minimization Algorithm with Automatic Relevance Determination for Transmission Tomography under Poisson Noise. SIAM Journal on Imaging Sciences, 2015, 8, 2087-2132.	2.2	4
69	Spectral-temporal compressive imaging. Optics Letters, 2015, 40, 4054.	3.3	82
70	A Bayesian Nonparametric Approach to Image Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 346-358.	13.9	66
71	Scalable Bayesian Non-negative Tensor Factorization for Massive Count Data. Lecture Notes in Computer Science, 2015, , 53-70.	1.3	13
72	Task-driven Adaptive Sensing on Quadrupole Mass Filter Systems for Classification. , 2015, , .		0

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73	Low-Cost Compressive Sensing for Color Video and Depth. , 2014, , .		62
74	An integrated transcriptome and expressed variant analysis of sepsis survival and death. Genome Medicine, 2014, 6, 111.	8.2	70
75	Compressed sampling strategies for tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1369.	1.5	51
76	Multi-shot Imaging: Joint Alignment, Deblurring, and Resolution-Enhancement. , 2014, , .		26
77	Bayesian joint analysis of heterogeneous genomics data. Bioinformatics, 2014, 30, 1370-1376.	4.1	63
78	The potential for Bayesian compressive sensing to significantly reduce electron dose in high-resolution STEM images. Microscopy (Oxford, England), 2014, 63, 41-51.	1.5	140
79	Generalized Alternating Projection for Weighted-$ell_{2,1}$ Minimization with Applications to Model-Based Compressive Sensing. SIAM Journal on Imaging Sciences, 2014, 7, 797-823.	2.2	114
80	Bayesian modeling of temporal properties of infectious disease in a college student population. Journal of Applied Statistics, 2014, 41, 1358-1382.	1.3	3
81	Hierarchical Infinite Divisibility for Multiscale Shrinkage. IEEE Transactions on Signal Processing, 2014, 62, 4363-4374.	5.3	19
82	Finite sample posterior concentration in high-dimensional regression. Information and Inference, 2014, 3, 103-133.	1.6	1
83	A Bregman Matrix and the Gradient of Mutual Information for Vector Poisson and Gaussian Channels. IEEE Transactions on Information Theory, 2014, 60, 2611-2629.	2.4	15
84	Reconstruction of Signals Drawn From a Gaussian Mixture Via Noisy Compressive Measurements. IEEE Transactions on Signal Processing, 2014, 62, 2265-2277.	5.3	34
85	Compressive Coded Aperture Spectral Imaging: An Introduction. IEEE Signal Processing Magazine, 2014, 31, 105-115.	5.6	471
86	Estimation of the CSAâ€ODF using Bayesian compressed sensing of multiâ€shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485.	3.0	15
87	Video Compressive Sensing Using Gaussian Mixture Models. IEEE Transactions on Image Processing, 2014, 23, 4863-4878.	9.8	158
88	Multichannel Electrophysiological Spike Sorting via Joint Dictionary Learning and Mixture Modeling. IEEE Transactions on Biomedical Engineering, 2014, 61, 41-54.	4.2	35
89	Statistical Methods in Compressive Imaging. , 2014, , .		0
90	Off-policy reinforcement learning with Gaussian processes. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 227-238.	13.1	22

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91	Compressive extended depth of field using image space coding. , 2014, , .		8
92	An Active Learning Approach for Rapid Characterization of Endothelial Cells in Human Tumors. PLoS ONE, 2014, 9, e90495.	2.5	24
93	Relationship between intracortical electrode design and chronic recording function. Biomaterials, 2013, 34, 8061-8074.	11.4	220
94	Gaussian mixture model for video compressive sensing. , 2013, , .		12
95	Adaptive temporal compressive sensing for video. , 2013, , .		36
96	Generalized Bregman divergence and gradient of mutual information for vector Poisson channels. , 2013, , .		2
97	Analysis of spaceâ€“time relational data with application to legislative voting. Computational Statistics and Data Analysis, 2013, 68, 141-154.	1.2	2
98	Task-Driven Adaptive Statistical Compressive Sensing of Gaussian Mixture Models. IEEE Transactions on Signal Processing, 2013, 61, 585-600.	5.3	47
99	Bayesian Gaussian Copula Factor Models for Mixed Data. Journal of the American Statistical Association, 2013, 108, 656-665.	3.1	80
100	Coded Hyperspectral Imaging and Blind Compressive Sensing. SIAM Journal on Imaging Sciences, 2013, 6, 782-812.	2.2	59
101	Deep Learning with Hierarchical Convolutional Factor Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1887-1901.	13.9	80
102	Compressive Sensing for Video Using a Passive Coding Element. , 2013, , .		9
103	Coded aperture compressive temporal imaging. Optics Express, 2013, 21, 10526.	3.4	320
104	A Host-Based RT-PCR Gene Expression Signature to Identify Acute Respiratory Viral Infection. Science Translational Medicine, 2013, 5, 203ra126.	12.4	133
105	An Integrated Clinico-Metabolomic Model Improves Prediction of Death in Sepsis. Science Translational Medicine, 2013, 5, 195ra95.	12.4	380
106	Quantitative profiling of microglia populations using harmonic co-clustering of arbor morphology measurements. , 2013, , .		9
107	Compressive sensing for incoherent imaging systems with optical constraints. , 2013, , .		1
108	Reconstruction of Gaussian mixture models from compressive measurements: A phase transition view. , 2013, , .		1

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109	Latent protein trees. Annals of Applied Statistics, 2013, 7, .	1.1	5
110	Spatio-Temporal Modeling of Legislation and Votes. Bayesian Analysis, 2013, 8, .	3.0	10
111	A Host Transcriptional Signature for Presymptomatic Detection of Infection in Humans Exposed to Influenza H1N1 or H3N2. PLoS ONE, 2013, 8, e52198.	2.5	157
112	The contextual focused topic model. , 2012, , .		38
113	Active learning for online bayesian matrix factorization. , 2012, , .		28
114	Online Bayesian dictionary learning for large datasets. , 2012, , .		11
115	How to focus the discriminative power of a dictionary. , 2012, , .		3
116	Nonparametric Bayesian Segmentation of a Multivariate Inhomogeneous Space-Time Poisson Process. Bayesian Analysis, 2012, 7, 813-840.	3.0	4
117	Dictionary Learning for Noisy and Incomplete Hyperspectral Images. SIAM Journal on Imaging Sciences, 2012, 5, 33-56.	2.2	93
118	Communications-Inspired Projection Design with Application to Compressive Sensing. SIAM Journal on Imaging Sciences, 2012, 5, 1185-1212.	2.2	60
119	Active learning for large-scale factor analysis. , 2012, , .		0
120	Hierarchical factor modeling of proteomics data. , 2012, , .		4
121	High-Dimensional Longitudinal Genomic Data: An analysis used for monitoring viral infections. IEEE Signal Processing Magazine, 2012, 29, 108-123.	5.6	17
122	Adapted statistical compressive sensing: Learning to sense gaussian mixture models. , 2012, , .		7
123	Nonparametric Bayesian Dictionary Learning for Analysis of Noisy and Incomplete Images. IEEE Transactions on Image Processing, 2012, 21, 130-144.	9.8	335
124	Detection of Viruses Via Statistical Gene Expression Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 468-479.	4.2	24
125	Dynamic relational topic model for social network analysis with noisy links. , 2011, , .		3
126	Nonparametric Bayesian factor analysis of multiple time series. , 2011, , .		1

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127	Separating background and foregroundin video based on a nonparametric Bayesian model. , 2011, , .		2
128	Predicting Viral Infection From High-Dimensional Biomarker Trajectories. Journal of the American Statistical Association, 2011, 106, 1259-1279.	3.1	24
129	Coherence, Compressive Sensing, and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2011, 53, 28-39.	1.4	52
130	Learning Discriminative Sparse Representations for Modeling, Source Separation, and Mapping of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4263-4281.	6.3	108
131	Learning Low-Dimensional Signal Models. IEEE Signal Processing Magazine, 2011, 28, 39-51.	5.6	22
132	Corrections to â€œCompressive Sensing on Manifolds Using a Nonparametric Mixture of Factor Analyzers: Algorithm and Performance Boundsâ€•[Dec 10 6140-6155]. IEEE Transactions on Signal Processing, 2011, 59, 1329-1329.	5.3	2
133	Bayesian Robust Principal Component Analysis. IEEE Transactions on Image Processing, 2011, 20, 3419-3430.	9.8	302
134	Temporal Dynamics of Host Molecular Responses Differentiate Symptomatic and Asymptomatic Influenza A Infection. PLoS Genetics, 2011, 7, e1002234.	3.5	173
135	Joint dictionary learning and topic modeling for image clustering. , 2011, , .		5
136	Bayesian topic models for describing computer network behaviors. , 2011, , .		5
137	Nonparametric Bayesian feature selection for multi-task learning. , 2011, , .		2
138	Covariate-dependent dictionary learning and sparse coding. , 2011, , .		1
139	Time-evolving modeling of social networks. , 2011, , .		1
140	Logistic Stick-Breaking Process. Journal of Machine Learning Research, 2011, 12, 203-239.	62.4	18
141	Topic Modeling with Nonparametric Markov Tree. , 2011, 2011, 377-384.		0
142	Tree-Structured Infinite Sparse Factor Model. , 2011, 2011, 785-792.		1
143	Bayesian inference of the number of factors in gene-expression analysis: application to human virus challenge studies. BMC Bioinformatics, 2010, 11, 552.	2.6	29
144	A nonparametric Bayesian model for kernel matrix completion. , 2010, , .		5

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145	Nonparametric image interpolation and dictionary learning using spatially-dependent Dirichlet and beta process priors. , 2010, , .		5
146	Sparse linear regression with beta process priors. , 2010, , .		14
147	Discriminative sparse representations in hyperspectral imagery. , 2010, , .		15
148	Sparse Signal Recovery and Acquisition with Graphical Models. IEEE Signal Processing Magazine, 2010, , .	5.6	45
149	Probabilistic Topic Models. IEEE Signal Processing Magazine, 2010, 27, 55-65.	5.6	201
150	Active Learning and Basis Selection for Kernel-Based Linear Models: A Bayesian Perspective. IEEE Transactions on Signal Processing, 2010, 58, 2686-2700.	5.3	23
151	Sticky Hidden Markov Modeling of Comparative Genomic Hybridization. IEEE Transactions on Signal Processing, 2010, 58, 5353-5368.	5.3	17
152	Compressive Sensing on Manifolds Using a Nonparametric Mixture of Factor Analyzers: Algorithm and Performance Bounds. IEEE Transactions on Signal Processing, 2010, 58, 6140-6155.	5.3	117
153	Response: Improving Development of the Molecular Signature for Diagnosis of Acute Respiratory Viral Infections. Cell Host and Microbe, 2010, 7, 102.	11.0	2
154	Hierarchical Bayesian Modeling of Topics in Time-Stamped Documents. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 996-1011.	13.9	37
155	Tree-Structured Compressive Sensing With Variational Bayesian Analysis. IEEE Signal Processing Letters, 2010, 17, 233-236.	3.6	133
156	Dynamic Nonparametric Bayesian Models for Analysis of Music. Journal of the American Statistical Association, 2010, 105, 458-472.	3.1	16
157	Nonparametric Bayesian matrix completion. , 2010, , .		22
158	Classification with Incomplete Data Using Dirichlet Process Priors. Journal of Machine Learning Research, 2010, 11, 3269-3311.	62.4	6
159	Multi-task classification with infinite local experts. , 2009, , .		0
160	Kernel-Matching Pursuits With Arbitrary Loss Functions. IEEE Transactions on Neural Networks, 2009, 20, 395-405.	4.2	4
161	Active learning for semi-supervised multi-task learning. , 2009, , .		4
162	Music analysis with a Bayesian dynamic model. , 2009, , .		0

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163	Dirichlet process mixture models with multiple modalities. , 2009, , .		3
164	Nonparametric factor analysis with beta process priors. , 2009, , .		143
165	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.	6.3	29
166	Compressive sensing for multi-static scattering analysis. Journal of Computational Physics, 2009, 228, 3464-3477.	3.8	28
167	Exploiting Structure in Wavelet-Based Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2009, 57, 3488-3497.	5.3	407
168	On the Relationship Between Compressive Sensing and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2009, 51, 72-81.	1.4	58
169	Gene Expression Signatures Diagnose Influenza and Other Symptomatic Respiratory Viral Infections in Humans. Cell Host and Microbe, 2009, 6, 207-217.	11.0	408
170	Hidden Markov Models With Stick-Breaking Priors. IEEE Transactions on Signal Processing, 2009, 57, 3905-3917.	5.3	40
171	Nonparametric learning of dictionaries for sparse representation of sensor signals. , 2009, , .		2
172	Semisupervised Multitask Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1074-1086.	13.9	63
173	Semisupervised Learning of Hidden Markov Models via a Homotopy Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 275-287.	13.9	22
174	Compressive particle filtering for target tracking. , 2009, , .		23
175	A Bayesian Model for Simultaneous Image Clustering, Annotation and Object Segmentation. Advances in Neural Information Processing Systems, 2009, 2009, 486-494.	2.8	3
176	Cybersecurity Strategies: The QuERIES Methodology. Computer, 2008, 41, 20-26.	1.1	62
177	Infinite Hidden Markov Models for Unusual-Event Detection in Video. IEEE Transactions on Image Processing, 2008, 17, 811-822.	9.8	54
178	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.	6.3	93
179	Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2008, 56, 2346-2356.	5.3	1,837
180	The Matrix Stick-Breaking Process. Journal of the American Statistical Association, 2008, 103, 317-327.	3.1	44

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181	In situ compressive sensing. Inverse Problems, 2008, 24, 015023.	2.0	25
182	Multi-Task Learning for Analyzing and Sorting Large Databases of Sequential Data. IEEE Transactions on Signal Processing, 2008, 56, 3918-3931.	5.3	10
183	Multi-task compressive sensing with Dirichlet process priors. , 2008, , .		32
184	Hierarchical kernel stick-breaking process for multi-task image analysis. , 2008, , .		18
185	The dynamic hierarchical Dirichlet process. , 2008, , .		72
186	Scattering From Very Large Randomly Rough Surfaces Using a Markov Random Field Equivalent Current. IEEE Transactions on Antennas and Propagation, 2008, 56, 204-214.	5.1	2
187	On enhancing classification performance by exploiting multiple scattering. Applied Physics Letters, 2008, 93, 254103.	3.3	0
188	Multitask Classification by Learning the Task Relevance. IEEE Signal Processing Letters, 2008, 15, 593-596.	3.6	5
189	The ATR Center and ATRpedia. , 2008, , .		3
190	Electromagnetic Time-Reversal Source Localization in Changing Media: Experiment and Analysis. IEEE Transactions on Antennas and Propagation, 2007, 55, 344-354.	5.1	68
191	Multiaspect target detection via the infinite hidden Markov model. Journal of the Acoustical Society of America, 2007, 121, 2731-2742.	1.1	4
192	Nonmyopic Multiaspect Sensing With Partially Observable Markov Decision Processes. IEEE Transactions on Signal Processing, 2007, 55, 2720-2730.	5.3	30
193	Multi-task learning for sequential data via iHMMs and the nested Dirichlet process. , 2007, , .		11
194	Learning Classifiers on a Partially Labeled Data Manifold. , 2007, , .		2
195	Infinite Hidden Markov Models and ISA Features for Unusual-Event Detection in Video. , 2007, , .		1
196	Wideband Array Imaging of a Target Situated in an Unknown Random Media. , 2007, , .		0
197	Quadratically gated mixture of experts for incomplete data classification. , 2007, , .		16
198	The matrix stick-breaking process for flexible multi-task learning. , 2007, , .		16

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199	Bayesian compressive sensing and projection optimization. , 2007, , .		31
200	Experimental validation of a transport-based imaging method in highly scattering environments. Inverse Problems, 2007, 23, 2527-2539.	2.0	22
201	Active Learning Applied to RCS Computations With Nonuniform Sampling Using Different Objective Functions. IEEE Transactions on Antennas and Propagation, 2007, 55, 1214-1217.	5.1	4
202	Multi-Aspect Target Classification and Detection via the Infinite Hidden Markov Model. , 2007, , .		3
203	Dirichlet Process HMM Mixture Models with Application to Music Analysis. , 2007, , .		2
204	On Classification with Incomplete Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 427-436.	13.9	136
205	Adaptive Multimodality Sensing of Landmines. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1756-1774.	6.3	8
206	A Bivariate Gaussian Model for Unexploded Ordnance Classification with EMI Data. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 629-633.	3.1	5
207	Classification of Unexploded Ordnance Using Incomplete Multisensor Multiresolution Data. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2364-2373.	6.3	11
208	In Situ Compressive Sensing. , 2007, , .		0
209	Three-Dimensional Bayesian Inversion With Application to Subsurface Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1258-1270.	6.3	14
210	Semi-Supervised Life-Long Learning with Application to Sensing. , 2007, , .		3
211	In Situ Compressive Sensing. , 2007, , .		3
212	Music Analysis Using Hidden Markov Mixture Models. IEEE Transactions on Signal Processing, 2007, 55, 5209-5224.	5.3	55
213	Volumetric fast multipole method for modeling SchrÃ¶dingerâ€™s equation. Journal of Computational Physics, 2007, 224, 941-955.	3.8	6
214	Electromagnetic Target Detection in Uncertain Media: Time-Reversal and Minimum-Variance Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 934-944.	6.3	53
215	Cost-sensitive feature acquisition and classification. Pattern Recognition, 2007, 40, 1474-1485.	8.1	115
216	A modified SPIHT algorithm for image coding with a joint MSE and classification distortion measure. IEEE Transactions on Image Processing, 2006, 15, 713-725.	9.8	19

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217	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.	13.9	56
218	Rapid Prolate Pseudospectral Differentiation and Interpolation with the Fast Multipole Method. SIAM Journal of Scientific Computing, 2006, 28, 485-497.	2.8	12
219	Pseudospectral method based on prolate spheroidal wave functions for semiconductor nanodevice simulation. Computer Physics Communications, 2006, 175, 78-85.	7.5	17
220	Region-based value iteration for partially observable Markov decision processes. , 2006, , .		4
221	Direct algorithm for computation of derivatives of the Daubechies basis functions. Applied Mathematics and Computation, 2005, 170, 1006-1013.	2.2	5
222	Analysis, design, and construction of a broadband balun for coaxial-to-planar transmission lines. Microwave and Optical Technology Letters, 2005, 44, 501-504.	1.4	5
223	Order of accuracy analysis for multiresolution time-domain using Daubechies bases. Microwave and Optical Technology Letters, 2005, 45, 290-293.	1.4	3
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225	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.	1.1	12
226	Sparse multinomial logistic regression: fast algorithms and generalization bounds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 957-968.	13.9	703
227	Logistic regression with an auxiliary data source. , 2005, , .		132
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