

Lawrence Carin

List of Publications by Year in descending order

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Version: 2024-02-01

285
papers

14,674
citations

36203

51
h-index

25716

108
g-index

287
all docs

287
docs citations

287
times ranked

14170
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Convolutional neural network to identify symptomatic Alzheimer's disease using multimodal retinal imaging. <i>British Journal of Ophthalmology</i> , 2022, 106, 388-395. | 2.1 | 56 |
| 2 | Use of Machine Learning-Based Software for the Screening of Thyroid Cytopathology Whole Slide Images. <i>Archives of Pathology and Laboratory Medicine</i> , 2022, 146, 872-878. | 1.2 | 7 |
| 3 | WAFFLe: Weight Anonymized Factorization for Federated Learning. <i>IEEE Access</i> , 2022, 10, 49207-49218. | 2.6 | 6 |
| 4 | An interpretable deep learning workflow for discovering subvisual abnormalities in CT scans of COVID-19 inpatients and survivors. <i>Nature Machine Intelligence</i> , 2022, 4, 494-503. | 8.3 | 16 |
| 5 | Weakly supervised instance learning for thyroid malignancy prediction from whole slide cytopathology images. <i>Medical Image Analysis</i> , 2021, 67, 101814. | 7.0 | 52 |
| 6 | Machine-learning-based multiple abnormality prediction with large-scale chest computed tomography volumes. <i>Medical Image Analysis</i> , 2021, 67, 101857. | 7.0 | 35 |
| 7 | RetiNerveNet: using recursive deep learning to estimate pointwise 24-2 visual field data based on retinal structure. <i>Scientific Reports</i> , 2021, 11, 12562. | 1.6 | 10 |
| 8 | SAGES consensus recommendations on an annotation framework for surgical video. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021, 35, 4918-4929. | 1.3 | 39 |
| 9 | In Reply to Prashar and to Savage. <i>Academic Medicine</i> , 2021, 96, 1230-1230. | 0.8 | 0 |
| 10 | Wasserstein Contrastive Representation Distillation. , 2021, , . | | 35 |
| 11 | Artificial Intelligence Mapping of Structure to Function in Glaucoma. <i>Translational Vision Science and Technology</i> , 2020, 9, 19. | 1.1 | 42 |
| 12 | On Artificial Intelligence and Deep Learning Within Medical Education. <i>Academic Medicine</i> , 2020, 95, S10-S11. | 0.8 | 25 |
| 13 | Digital technology and COVID-19. <i>Nature Medicine</i> , 2020, 26, 459-461. | 15.2 | 997 |
| 14 | Application of a machine learning algorithm to predict malignancy in thyroid cytopathology. <i>Cancer Cytopathology</i> , 2020, 128, 287-295. | 1.4 | 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. <i>JAMA Ophthalmology</i> , 2019, 137, 994. | 1.4 | 7 |
| 18 | Continuing progress of spike sorting in the era of big data. <i>Current Opinion in Neurobiology</i> , 2019, 55, 90-96. | 2.0 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A convergence analysis for a class of practical variance-reduction stochastic gradient MCMC. Science China Information Sciences, 2019, 62, 1. | 2.7 | 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. | 13.5 | 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. | 3.8 | 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. | 9.7 | 13 |
| 32 | Dynamically Timed Stimulation of Corticolimbic Circuitry Activates a Stress-Compensatory Pathway. Biological Psychiatry, 2017, 82, 904-913. | 0.7 | 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. <i>Microscopy and Microanalysis</i> , 2016, 22, 560-561. | 0.2 | 8 |
| 38 | Dynamic Poisson Factor Analysis. , 2016, , . | | 2 |
| 39 | Coded aperture x-ray diffraction imaging with transmission computed tomography side-information. <i>Proceedings of SPIE</i> , 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. <i>IEEE Signal Processing Magazine</i> , 2016, 33, 95-108. | 4.6 | 178 |
| 42 | Classification and Reconstruction of High-Dimensional Signals From Low-Dimensional Features in the Presence of Side Information. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 6459-6492. | 1.5 | 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. <i>Microscopy and Microanalysis</i> , 2016, 22, 2084-2085. | 0.2 | 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. <i>Neuron</i> , 2016, 91, 439-452. | 3.8 | 98 |
| 48 | Host gene expression classifiers diagnose acute respiratory illness etiology. <i>Science Translational Medicine</i> , 2016, 8, 322ra11. | 5.8 | 202 |
| 49 | Stochastic Spectral Descent for Discrete Graphical Models. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016, 10, 296-311. | 7.3 | 9 |
| 50 | Efficient patch-based approach for compressive depth imaging. <i>Applied Optics</i> , 2016, 55, 7556. | 2.1 | 20 |
| 51 | Performance assessment of image translation-engineered point spread functions. , 2016, , . | | 0 |
| 52 | Laplacian Hamiltonian Monte Carlo. <i>Lecture Notes in Computer Science</i> , 2016, , 98-114. | 1.0 | 0 |
| 53 | TEM Video Compressive Sensing. <i>Microscopy and Microanalysis</i> , 2015, 21, 1583-1584. | 0.2 | 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. <i>Advanced Structural and Chemical Imaging</i> , 2015, 1, . | 4.0 | 55 |
| 56 | Multivariate time-series analysis and diffusion maps. <i>Signal Processing</i> , 2015, 116, 13-28. | 2.1 | 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. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 106-119. | 6.0 | 136 |
| 60 | Quantitative Arbor Analytics: Unsupervised Harmonic Co-Clustering of Populations of Brain Cell Arbors Based on L-Measure. <i>Neuroinformatics</i> , 2015, 13, 47-63. | 1.5 | 27 |
| 61 | Negative Binomial Process Count and Mixture Modeling. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 307-320. | 9.7 | 100 |
| 62 | Temporal Compressive Sensing for Video. <i>Applied and Numerical Harmonic Analysis</i> , 2015, , 41-74. | 0.1 | 7 |
| 63 | Compressive Hyperspectral Imaging With Side Information. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015, 9, 964-976. | 7.3 | 152 |
| 64 | Alternating minimization algorithm with iteratively reweighted quadratic penalties for compressive transmission tomography. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 0 |
| 65 | Signal Recovery and System Calibration from Multiple Compressive Poisson Measurements. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 1923-1954. | 1.3 | 12 |
| 66 | Image translation for single-shot focal tomography. <i>Optica</i> , 2015, 2, 822. | 4.8 | 39 |
| 67 | Coded Aperture Compressive Spectral-Temporal Imaging. , 2015, , . | | 7 |
| 68 | Alternating Minimization Algorithm with Automatic Relevance Determination for Transmission Tomography under Poisson Noise. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 2087-2132. | 1.3 | 4 |
| 69 | Spectral-temporal compressive imaging. <i>Optics Letters</i> , 2015, 40, 4054. | 1.7 | 82 |
| 70 | A Bayesian Nonparametric Approach to Image Super-Resolution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 346-358. | 9.7 | 66 |
| 71 | Scalable Bayesian Non-negative Tensor Factorization for Massive Count Data. <i>Lecture Notes in Computer Science</i> , 2015, , 53-70. | 1.0 | 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. | 3.6 | 70 |
| 75 | 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 |
| 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. | 1.8 | 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. | 0.7 | 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. | 1.3 | 114 |
| 80 | Bayesian modeling of temporal properties of infectious disease in a college student population. Journal of Applied Statistics, 2014, 41, 1358-1382. | 0.6 | 3 |
| 81 | Hierarchical Infinite Divisibility for Multiscale Shrinkage. IEEE Transactions on Signal Processing, 2014, 62, 4363-4374. | 3.2 | 19 |
| 82 | Finite sample posterior concentration in high-dimensional regression. Information and Inference, 2014, 3, 103-133. | 0.9 | 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. | 1.5 | 15 |
| 84 | Reconstruction of Signals Drawn From a Gaussian Mixture Via Noisy Compressive Measurements. IEEE Transactions on Signal Processing, 2014, 62, 2265-2277. | 3.2 | 34 |
| 85 | Compressive Coded Aperture Spectral Imaging: An Introduction. IEEE Signal Processing Magazine, 2014, 31, 105-115. | 4.6 | 471 |
| 86 | Estimation of the CSA's ODF using Bayesian compressed sensing of multi-shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485. | 1.9 | 15 |
| 87 | Video Compressive Sensing Using Gaussian Mixture Models. IEEE Transactions on Image Processing, 2014, 23, 4863-4878. | 6.0 | 158 |
| 88 | Multichannel Electrophysiological Spike Sorting via Joint Dictionary Learning and Mixture Modeling. IEEE Transactions on Biomedical Engineering, 2014, 61, 41-54. | 2.5 | 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. | 8.5 | 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. | 1.1 | 24 |
| 93 | Relationship between intracortical electrode design and chronic recording function. Biomaterials, 2013, 34, 8061-8074. | 5.7 | 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 space-time relational data with application to legislative voting. Computational Statistics and Data Analysis, 2013, 68, 141-154. | 0.7 | 2 |
| 98 | Task-Driven Adaptive Statistical Compressive Sensing of Gaussian Mixture Models. IEEE Transactions on Signal Processing, 2013, 61, 585-600. | 3.2 | 47 |
| 99 | Bayesian Gaussian Copula Factor Models for Mixed Data. Journal of the American Statistical Association, 2013, 108, 656-665. | 1.8 | 80 |
| 100 | Coded Hyperspectral Imaging and Blind Compressive Sensing. SIAM Journal on Imaging Sciences, 2013, 6, 782-812. | 1.3 | 59 |
| 101 | Deep Learning with Hierarchical Convolutional Factor Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1887-1901. | 9.7 | 80 |
| 102 | Compressive Sensing for Video Using a Passive Coding Element. , 2013, , . | | 9 |
| 103 | Coded aperture compressive temporal imaging. Optics Express, 2013, 21, 10526. | 1.7 | 320 |
| 104 | A Host-Based RT-PCR Gene Expression Signature to Identify Acute Respiratory Viral Infection. Science Translational Medicine, 2013, 5, 203ra126. | 5.8 | 133 |
| 105 | An Integrated Clinico-Metabolomic Model Improves Prediction of Death in Sepsis. Science Translational Medicine, 2013, 5, 195ra95. | 5.8 | 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. <i>Annals of Applied Statistics</i> , 2013, 7, . | 0.5 | 5 |
| 110 | Spatio-Temporal Modeling of Legislation and Votes. <i>Bayesian Analysis</i> , 2013, 8, . | 1.6 | 10 |
| 111 | A Host Transcriptional Signature for Presymptomatic Detection of Infection in Humans Exposed to Influenza H1N1 or H3N2. <i>PLoS ONE</i> , 2013, 8, e52198. | 1.1 | 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. <i>Bayesian Analysis</i> , 2012, 7, 813-840. | 1.6 | 4 |
| 117 | Dictionary Learning for Noisy and Incomplete Hyperspectral Images. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 33-56. | 1.3 | 93 |
| 118 | Communications-Inspired Projection Design with Application to Compressive Sensing. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 1185-1212. | 1.3 | 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. <i>IEEE Signal Processing Magazine</i> , 2012, 29, 108-123. | 4.6 | 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. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 130-144. | 6.0 | 335 |
| 124 | Detection of Viruses Via Statistical Gene Expression Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 468-479. | 2.5 | 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 foreground in 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. | 1.8 | 24 |
| 129 | Coherence, Compressive Sensing, and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2011, 53, 28-39. | 1.2 | 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. | 2.7 | 108 |
| 131 | Learning Low-Dimensional Signal Models. IEEE Signal Processing Magazine, 2011, 28, 39-51. | 4.6 | 22 |
| 132 | Corrections to "Compressive Sensing on Manifolds Using a Nonparametric Mixture of Factor Analyzers: Algorithm and Performance Bounds" [Dec 10 6140-6155]. IEEE Transactions on Signal Processing, 2011, 59, 1329-1329. | 3.2 | 2 |
| 133 | Bayesian Robust Principal Component Analysis. IEEE Transactions on Image Processing, 2011, 20, 3419-3430. | 6.0 | 302 |
| 134 | Temporal Dynamics of Host Molecular Responses Differentiate Symptomatic and Asymptomatic Influenza A Infection. PLoS Genetics, 2011, 7, e1002234. | 1.5 | 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. | 1.2 | 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, , . | 4.6 | 45 |
| 149 | Probabilistic Topic Models. IEEE Signal Processing Magazine, 2010, 27, 55-65. | 4.6 | 201 |
| 150 | Active Learning and Basis Selection for Kernel-Based Linear Models: A Bayesian Perspective. IEEE Transactions on Signal Processing, 2010, 58, 2686-2700. | 3.2 | 23 |
| 151 | Sticky Hidden Markov Modeling of Comparative Genomic Hybridization. IEEE Transactions on Signal Processing, 2010, 58, 5353-5368. | 3.2 | 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. | 3.2 | 117 |
| 153 | Response: Improving Development of the Molecular Signature for Diagnosis of Acute Respiratory Viral Infections. Cell Host and Microbe, 2010, 7, 102. | 5.1 | 2 |
| 154 | Hierarchical Bayesian Modeling of Topics in Time-Stamped Documents. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 996-1011. | 9.7 | 37 |
| 155 | Tree-Structured Compressive Sensing With Variational Bayesian Analysis. IEEE Signal Processing Letters, 2010, 17, 233-236. | 2.1 | 133 |
| 156 | Dynamic Nonparametric Bayesian Models for Analysis of Music. Journal of the American Statistical Association, 2010, 105, 458-472. | 1.8 | 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. | 4.8 | 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. | 2.7 | 29 |
| 166 | Compressive sensing for multi-static scattering analysis. Journal of Computational Physics, 2009, 228, 3464-3477. | 1.9 | 28 |
| 167 | Exploiting Structure in Wavelet-Based Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2009, 57, 3488-3497. | 3.2 | 407 |
| 168 | On the Relationship Between Compressive Sensing and Random Sensor Arrays. IEEE Antennas and Propagation Magazine, 2009, 51, 72-81. | 1.2 | 58 |
| 169 | Gene Expression Signatures Diagnose Influenza and Other Symptomatic Respiratory Viral Infections in Humans. Cell Host and Microbe, 2009, 6, 207-217. | 5.1 | 408 |
| 170 | Hidden Markov Models With Stick-Breaking Priors. IEEE Transactions on Signal Processing, 2009, 57, 3905-3917. | 3.2 | 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. | 9.7 | 63 |
| 173 | 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 |
| 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. | 1.2 | 62 |
| 177 | Infinite Hidden Markov Models for Unusual-Event Detection in Video. IEEE Transactions on Image Processing, 2008, 17, 811-822. | 6.0 | 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. | 2.7 | 93 |
| 179 | Bayesian Compressive Sensing. IEEE Transactions on Signal Processing, 2008, 56, 2346-2356. | 3.2 | 1,837 |
| 180 | The Matrix Stick-Breaking Process. Journal of the American Statistical Association, 2008, 103, 317-327. | 1.8 | 44 |

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| 181 | <i>In situ</i> compressive sensing. Inverse Problems, 2008, 24, 015023. | 1.0 | 25 |
| 182 | Multi-Task Learning for Analyzing and Sorting Large Databases of Sequential Data. IEEE Transactions on Signal Processing, 2008, 56, 3918-3931. | 3.2 | 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. | 3.1 | 2 |
| 187 | On enhancing classification performance by exploiting multiple scattering. Applied Physics Letters, 2008, 93, 254103. | 1.5 | 0 |
| 188 | Multitask Classification by Learning the Task Relevance. IEEE Signal Processing Letters, 2008, 15, 593-596. | 2.1 | 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. | 3.1 | 68 |
| 191 | Multiaspect target detection via the infinite hidden Markov model. Journal of the Acoustical Society of America, 2007, 121, 2731-2742. | 0.5 | 4 |
| 192 | Nonmyopic Multiaspect Sensing With Partially Observable Markov Decision Processes. IEEE Transactions on Signal Processing, 2007, 55, 2720-2730. | 3.2 | 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. | 1.0 | 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. | 3.1 | 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 |
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