

Jacob Goldberger

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,192
citations

430754

18
h-index

345118

36
g-index

80
all docs

80
docs citations

80
times ranked

3664
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Adaptation of a Multi-Site Network to a New Clinical Site Via Batch-Normalization Similarity. , 2022, , . | | 3 |
| 2 | Class-Based Attention Mechanism for Chest Radiograph Multi-Label Categorization. , 2022, , . | | 1 |
| 3 | Weakly and semi supervised detection in medical imaging via deep dual branch net. Neurocomputing, 2021, 421, 15-25. | 3.5 | 11 |
| 4 | Speech Enhancement with Mixture of Deep Experts with Clean Clustering Pre-Training. , 2021, , . | | 3 |
| 5 | Factorized CRF with Batch Normalization Based on the Entire Training Data. , 2021, , . | | 0 |
| 6 | An atlas of classifiersâ€”a machine learning paradigm for brain MRI segmentation. Medical and Biological Engineering and Computing, 2021, 59, 1833-1849. | 1.6 | 1 |
| 7 | Network Calibration by Class-based Temperature Scaling. , 2021, , . | | 3 |
| 8 | A mixture of views network with applications to multi-view medical imaging. Neurocomputing, 2020, 374, 1-9. | 3.5 | 12 |
| 9 | CRF with deep class embedding for large scale classification. Computer Vision and Image Understanding, 2020, 191, 102865. | 3.0 | 5 |
| 10 | Learning Probabilistic Fusion of Multilabel Lesion Contours. , 2020, , . | | 1 |
| 11 | A Composite DNN Architecture for Speech Enhancement. , 2020, , . | | 1 |
| 12 | K-Autoencoders Deep Clustering. , 2020, , . | | 10 |
| 13 | Information-bottleneck Based on the Jensen-shannon Divergence with Applications to Pairwise Clustering. , 2019, , . | | 0 |
| 14 | Classification and Detection in Mammograms With Weak Supervision Via Dual Branch Deep Neural Net. , 2019, , . | | 7 |
| 15 | Network Adaptation Strategies for Learning New Classes without Forgetting the Original Ones. , 2019, , . | | 0 |
| 16 | Soft Labeling by Distilling Anatomical Knowledge for Improved MS Lesion Segmentation. , 2019, , . | | 18 |
| 17 | A Mixture of Views Network With Applications to the Classification of Breast Microcalcifications. , 2019, , . | | 3 |
| 18 | Formant estimation and tracking: A deep learning approach. Journal of the Acoustical Society of America, 2019, 145, 642-653. | 0.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Precise Detection in Densely Packed Scenes. , 2019, , . | | 99 |
| 20 | Speech Dereverberation Using Fully Convolutional Networks. , 2018, , . | | 40 |
| 21 | Speech Enhancement With Deep Neural Networks Using MoG Based Labels. , 2018, , . | | 0 |
| 22 | GAN-based synthetic medical image augmentation for increased CNN performance in liver lesion classification. Neurocomputing, 2018, 321, 321-331. | 3.5 | 1,083 |
| 23 | Synthetic data augmentation using GAN for improved liver lesion classification. , 2018, , . | | 393 |
| 24 | Training a neural network based on unreliable human annotation of medical images. , 2018, , . | | 37 |
| 25 | Identification of introns harboring functional sequence elements through positional conservation. Scientific Reports, 2017, 7, 4201. | 1.6 | 17 |
| 26 | Task-Driven Dictionary Learning Based on Mutual Information for Medical Image Classification. IEEE Transactions on Biomedical Engineering, 2017, 64, 1380-1392. | 2.5 | 31 |
| 27 | Successive relative transfer function identification using single microphone speech enhancement. , 2017, , . | | 1 |
| 28 | Deep recurrent mixture of experts for speech enhancement. , 2017, , . | | 7 |
| 29 | A deep neural network with a restricted noisy channel for identification of functional introns. , 2017, , . | | 0 |
| 30 | Atlas of Classifiers for Brain MRI Segmentation. Lecture Notes in Computer Science, 2017, , 36-44. | 1.0 | 2 |
| 31 | Patch-Based Segmentation with Spatial Consistency: Application to MS Lesions in Brain MRI. International Journal of Biomedical Imaging, 2016, 2016, 1-13. | 3.0 | 34 |
| 32 | Mutual information criterion for feature selection with application to classification of breast microcalcifications. , 2016, , . | | 1 |
| 33 | A multi-view deep learning architecture for classification of breast microcalcifications. , 2016, , . | | 21 |
| 34 | Intra-cluster training strategy for deep learning with applications to language identification. , 2016, , . | | 10 |
| 35 | Combining clusterings with different detail levels. , 2016, , . | | 0 |
| 36 | A phoneme-based pre-training approach for deep neural network with application to speech enhancement. , 2016, , . | | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A Hybrid Approach for Speech Enhancement Using MoG Model and Neural Network Phoneme Classifier. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 2516-2530. | 4.0 | 20 |
| 38 | Combining soft decisions of several unreliable experts. , 2016, , . | | 4 |
| 39 | Multi-View Probabilistic Classification of Breast Microcalcifications. IEEE Transactions on Medical Imaging, 2016, 35, 645-653. | 5.4 | 37 |
| 40 | Pairwise clustering based on the mutual-information criterion. Neurocomputing, 2016, 182, 284-293. | 3.5 | 9 |
| 41 | Efficient Global Learning of Entailment Graphs. Computational Linguistics, 2015, 41, 249-291. | 2.5 | 11 |
| 42 | Multi-phase liver lesions classification using relevant visual words based on mutual information. , 2015, , . | | 15 |
| 43 | MIMO detection based on averaging Gaussian projections. , 2014, , . | | 1 |
| 44 | Improved MIMO detection based on successive tree approximations. , 2013, , . | | 11 |
| 45 | Learning Entailment Relations by Global Graph Structure Optimization. Computational Linguistics, 2012, 38, 73-111. | 2.5 | 28 |
| 46 | Breast tissue classification in mammograms using visual words. , 2012, , . | | 2 |
| 47 | Dimensionality reduction based on non-parametric mutual information. Neurocomputing, 2012, 80, 31-37. | 3.5 | 13 |
| 48 | An unsupervised data projection that preserves the cluster structure. Pattern Recognition Letters, 2012, 33, 256-262. | 2.6 | 4 |
| 49 | Beyond Condorcet: optimal aggregation rules using voting records. Theory and Decision, 2012, 72, 113-130. | 0.5 | 9 |
| 50 | System for pathology categorization and retrieval in chest radiographs. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 51 | Iterative Tomographic Solution of Integer Least Squares Problems With Applications to MIMO Detection. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1486-1496. | 7.3 | 8 |
| 52 | MIMO Detection for High-Order QAM Based on a Gaussian Tree Approximation. IEEE Transactions on Information Theory, 2011, 57, 4973-4982. | 1.5 | 72 |
| 53 | X-ray Categorization and Retrieval on the Organ and Pathology Level, Using Patch-Based Visual Words. IEEE Transactions on Medical Imaging, 2011, 30, 733-746. | 5.4 | 158 |
| 54 | Distilling the wisdom of crowds: weighted aggregation of decisions on multiple issues. Autonomous Agents and Multi-Agent Systems, 2011, 22, 31-42. | 1.3 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Beyond Condorcet: Optimal Aggregation Rules Using Voting Records. SSRN Electronic Journal, 2010, , . | 0.4 | 2 |
| 56 | Mutual information based dimensionality reduction with application to non-linear regression. , 2010, , . | | 2 |
| 57 | Pseudo Prior Belief Propagation for densely connected discrete graphs. , 2010, , . | | 9 |
| 58 | X-ray image categorization and retrieval using patch-based visualwords representation. , 2009, , . | | 21 |
| 59 | MIMO decoding based on stochastic reconstruction from multiple projections. , 2009, , . | | 6 |
| 60 | Lesion detection and segmentation in uterine cervix images using an ARC-LEVEL MRF. , 2009, , . | | 6 |
| 61 | Multiple Sclerosis Lesion Detection Using Constrained GMM and Curve Evolution. International Journal of Biomedical Imaging, 2009, 2009, 1-13. | 3.0 | 36 |
| 62 | Classification of hyperspectral remote-sensing images using discriminative linear projections. International Journal of Remote Sensing, 2009, 30, 5605-5617. | 1.3 | 9 |
| 63 | Urban-Area Segmentation Using Visual Words. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 388-392. | 1.4 | 41 |
| 64 | Efficient Anonymizations with Enhanced Utility. , 2009, , . | | 6 |
| 65 | Simplifying Mixture Models Using the Unscented Transform. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1496-1502. | 9.7 | 28 |
| 66 | Detection of Urban Zones in Satellite Images using Visual Words. , 2008, , . | | 4 |
| 67 | Unifying Unknown Nodes in the Internet Graph Using Semisupervised Spectral Clustering. , 2008, , . | | 3 |
| 68 | LESION DETECTION IN NOISY MR BRAIN IMAGES USING CONSTRAINED GMM AND ACTIVE CONTOURS. , 2007, , . | | 14 |
| 69 | Fast Semi-Supervised Discriminative Component Analysis. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , . | 0.0 | 10 |
| 70 | Combining Region and Edge Cues for Image Segmentation in a Probabilistic Gaussian Mixture Framework. , 2007, , . | | 18 |
| 71 | A classification-based linear projection of labeled hyperspectral data. , 2007, , . | | 2 |
| 72 | An Optimal Reduced Representation of a MoG with Applicatios to Medical Image Database Classification. , 2007, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | A Markov Clustering Method for Analyzing Movement Trajectories. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , . | 0.0 | 3 |
| 74 | Efficient Serial Message-Passing Schedules for LDPC Decoding. IEEE Transactions on Information Theory, 2007, 53, 4076-4091. | 1.5 | 122 |
| 75 | Constrained Gaussian mixture model framework for automatic segmentation of MR brain images. IEEE Transactions on Medical Imaging, 2006, 25, 1233-1245. | 5.4 | 216 |
| 76 | Unsupervised image-set clustering using an information theoretic framework. IEEE Transactions on Image Processing, 2006, 15, 449-458. | 6.0 | 99 |
| 77 | Context-based segmentation of image sequences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 463-468. | 9.7 | 32 |
| 78 | Tissue Classification of Noisy MR Brain Images Using Constrained GMM. Lecture Notes in Computer Science, 2005, 8, 790-797. | 1.0 | 6 |
| 79 | Probabilistic space-time video modeling via piecewise gmm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 384-396. | 9.7 | 113 |
| 80 | A Continuous Probabilistic Framework for Image Matching. Computer Vision and Image Understanding, 2001, 84, 384-406. | 3.0 | 73 |