

# Changshui Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

6,006  
citations

134610

34  
h-index

139680

61  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5707  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Deep Gesture Video Generation With Learning on Regions of Interest. IEEE Transactions on Multimedia, 2020, 22, 2551-2563.  | 5.2 | 16        |
| 2  | A Deep Neural Framework for Continuous Sign Language Recognition by Iterative Training. IEEE Transactions on Multimedia, 2019, 21, 1880-1891.                                | 5.2 | 191       |
| 3  | Predicting Seizures from Electroencephalography Recordings: A Knowledge Transfer Strategy. , 2016, , .   |     | 26        |
| 4  | Learning with only multiple instance positive bags. , 2016, , .  |     | 1         |
| 5  | DeepFish: Accurate underwater live fish recognition with a deep architecture. Neurocomputing, 2016, 187, 49-58.  | 3.5 | 184       |
| 6  | Incremental multiple instance outlier detection. Neural Computing and Applications, 2015, 26, 957-968.   | 3.2 | 14        |
| 7  | Optimal charging method for lithium ion batteries using a universal voltage protocol accommodating aging. Journal of Power Sources, 2015, 274, 957-964.                      | 4.0 | 101       |
| 8  | Solving one-class problem with outlier examples by SVM. Neurocomputing, 2015, 149, 100-105.  | 3.5 | 28        |
| 9  | Multiple rank multi-linear SVM for matrix data classification. Pattern Recognition, 2014, 47, 454-469.   | 5.1 | 65        |
| 10 | Traffic Sign Recognition With Hinge Loss Trained Convolutional Neural Networks. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1991-2000.                | 4.7 | 267       |
| 11 | State of health estimation for lithium ion batteries based on charging curves. Journal of Power Sources, 2014, 249, 457-462.   | 4.0 | 132       |
| 12 | Robust non-negative matrix factorization via joint sparse and graph regularization for transfer learning. Neural Computing and Applications, 2013, 23, 541-559.              | 3.2 | 27        |
| 13 | A Flexible and Effective Linearization Method for Subspace Learning. , 2013, , 177-203.  |     | 2         |
| 14 | Discriminative Least Squares Regression for Multiclass Classification and Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1738-1754. | 7.2 | 359       |
| 15 | A general framework for transfer sparse subspace learning. Neural Computing and Applications, 2012, 21, 1801-1817.   | 3.2 | 17        |
| 16 | Image deblurring with matrix regression and gradient evolution. Pattern Recognition, 2012, 45, 2164-2179.  | 5.1 | 15        |
| 17 | Unsupervised Large Margin Discriminative Projection. IEEE Transactions on Neural Networks, 2011, 22, 1446-1456.  | 4.8 | 15        |
| 18 | Interactive Image Segmentation With Multiple Linear Reconstructions in Windows. IEEE Transactions on Multimedia, 2011, 13, 342-352.  | 5.2 | 15        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Spectral Embedded Clustering: A Framework for In-Sample and Out-of-Sample Spectral Clustering. IEEE Transactions on Neural Networks, 2011, 22, 1796-1808.                  | 4.8 | 246       |
| 20 | Regression Reformulations of LLE and LTSA With Locally Linear Transformation. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1250-1262.                     | 5.5 | 39        |
| 21 | Multitask Bregman clustering. Neurocomputing, 2011, 74, 1720-1734.   | 3.5 | 25        |
| 22 | Graph-based semi-supervised learning. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2011, 6, 17-26.        | 0.6 | 3         |
| 23 | Multiple Fundamental Frequency Estimation by Modeling Spectral Peaks and Non-Peak Regions. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 2121-2133. | 3.8 | 103       |
| 24 | A general kernelization framework for learning algorithms based on kernel PCA. Neurocomputing, 2010, 73, 959-967.  | 3.5 | 85        |
| 25 | Boosting with pairwise constraints. Neurocomputing, 2010, 73, 908-919.   | 3.5 | 14        |
| 26 | Multiple view semi-supervised dimensionality reduction. Pattern Recognition, 2010, 43, 720-730.  | 5.1 | 96        |
| 27 | Linear Time Maximum Margin Clustering. IEEE Transactions on Neural Networks, 2010, 21, 319-332.  | 4.8 | 56        |
| 28 | Semi-Supervised Classification via Local Spline Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 2039-2053.                           | 9.7 | 107       |
| 29 | Flexible Manifold Embedding: A Framework for Semi-Supervised and Unsupervised Dimension Reduction. IEEE Transactions on Image Processing, 2010, 19, 1921-1932.             | 6.0 | 439       |
| 30 | Nonlinear Dimensionality Reduction with Local Spline Embedding. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1285-1298.                                  | 4.0 | 105       |
| 31 | Embedding new data points for manifold learning via coordinate propagation. Knowledge and Information Systems, 2009, 19, 159-184.  | 2.1 | 41        |
| 32 | Extracting the optimal dimensionality for local tensor discriminant analysis. Pattern Recognition, 2009, 42, 105-114.  | 5.1 | 71        |
| 33 | Fast nonlinear autocorrelation algorithm for source separation. Pattern Recognition, 2009, 42, 1732-1741.  | 5.1 | 10        |
| 34 | Stable local dimensionality reduction approaches. Pattern Recognition, 2009, 42, 2054-2066.  | 5.1 | 71        |
| 35 | Semi-supervised orthogonal discriminant analysis via label propagation. Pattern Recognition, 2009, 42, 2615-2627.  | 5.1 | 134       |
| 36 | Clustering with Local and Global Regularization. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1665-1678.   | 4.0 | 42        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Trace Ratio Problem Revisited. IEEE Transactions on Neural Networks, 2009, 20, 729-735.   | 4.8 | 238       |
| 38 | Beyond Banditron: A Conservative and Efficient Reduction for Online Multiclass Prediction with Bandit Setting Model. , 2009, , .  |     | 3         |
| 39 | Linear Neighborhood Propagation and Its Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1600-1615.                                | 9.7 | 143       |
| 40 | The random electrode selection ensemble for EEG signal classification. Pattern Recognition, 2008, 41, 1663-1675.  | 5.1 | 35        |
| 41 | Learning a Mahalanobis distance metric for data clustering and classification. Pattern Recognition, 2008, 41, 3600-3612.  | 5.1 | 500       |
| 42 | A unified framework for semi-supervised dimensionality reduction. Pattern Recognition, 2008, 41, 2789-2799.   | 5.1 | 166       |
| 43 | Unsupervised Single-Channel Music Source Separation by Average Harmonic Structure Modeling. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 766-778. | 3.8 | 64        |
| 44 | MACBSE: Extracting signals with linear autocorrelations. Neurocomputing, 2008, 71, 1082-1091.   | 3.5 | 2         |
| 45 | Label Propagation through Linear Neighborhoods. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 55-67.   | 4.0 | 509       |
| 46 | Regularized clustering for documents. , 2007, , .   |     | 30        |
| 47 | Optimal Dimensionality Discriminant Analysis and Its Application to Image Recognition. , 2007, , .  |     | 13        |
| 48 | The Selective Random Subspace Predictor for Traffic Flow Forecasting. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 367-373.                          | 4.7 | 65        |
| 49 | An experimental evaluation of ensemble methods for EEG signal classification. Pattern Recognition Letters, 2007, 28, 2157-2163.   | 2.6 | 117       |
| 50 | Semi-blind source extraction for fetal electrocardiogram extraction by combining non-Gaussianity and time-correlation. Neurocomputing, 2007, 70, 1574-1581.               | 3.5 | 40        |
| 51 | Generalized Manifold-Ranking-Based Image Retrieval. IEEE Transactions on Image Processing, 2006, 15, 3170-3177.   | 6.0 | 101       |
| 52 | Adaptive feature extraction for EEG signal classification. Medical and Biological Engineering and Computing, 2006, 44, 931-935.   | 1.6 | 93        |
| 53 | Gaussian moments for noisy complexity pursuit. Neurocomputing, 2006, 69, 917-921.   | 3.5 | 21        |
| 54 | An optimal kernel feature extractor and its application to EEG signal classification. Neurocomputing, 2006, 69, 1743-1748.  | 3.5 | 26        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Label propagation through linear neighborhoods. , 2006, , .   |     | 184       |
| 56 | Active curve axis Gaussian mixture models. Pattern Recognition, 2005, 38, 2351-2362.  | 5.1 | 21        |
| 57 | Visual object recognition using probabilistic kernel subspace similarity. Pattern Recognition, 2005, 38, 997-1008.  | 5.1 | 9         |
| 58 | Finite Mixture Models with Negative Components. Lecture Notes in Computer Science, 2005, , 31-41.   | 1.0 | 4         |
| 59 | Learning On-Line Classification via Decorrelated LMS Algorithm: Application to Brain-Computer Interfaces. Lecture Notes in Computer Science, 2005, , 215-226.     | 1.0 | 13        |
| 60 | Traffic Flow Forecasting Using a Spatio-temporal Bayesian Network Predictor. Lecture Notes in Computer Science, 2005, , 273-278.                                  | 1.0 | 28        |
| 61 | Using a Random Subspace Predictor to Integrate Spatial and Temporal Information for Traffic Flow Forecasting. Lecture Notes in Computer Science, 2005, , 652-655. | 1.0 | 1         |
| 62 | On the On-line Learning Algorithms for EEG Signal Classification in Brain Computer Interfaces. Lecture Notes in Computer Science, 2005, , 638-647.                | 1.0 | 7         |
| 63 | Bayesian Network Methods for Traffic Flow Forecasting with Incomplete Data. Lecture Notes in Computer Science, 2004, , 419-428.                                   | 1.0 | 11        |
| 64 | Manifold-ranking based image retrieval. , 2004, , .   |     | 274       |
| 65 | Competitive EM algorithm for finite mixture models. Pattern Recognition, 2004, 37, 131-144.   | 5.1 | 87        |
| 66 | Short-Term Traffic Flow Forecasting Using Expanded Bayesian Network for Incomplete Data. Lecture Notes in Computer Science, 2004, , 950-955.                      | 1.0 | 4         |
| 67 | Clustering in Knowledge Embedded Space. Lecture Notes in Computer Science, 2003, , 480-491.   | 1.0 | 6         |
| 68 | Kernel Trick Embedded Gaussian Mixture Model. Lecture Notes in Computer Science, 2003, , 159-174.   | 1.0 | 20        |
| 69 | Self-enhanced relevant component analysis with side-information and unlabeled data. , 0, , .  |     | 0         |