

# Zhou-Chen Lin

## List of Publications by Year in descending order

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142  
papers

10,834  
citations

87723

38  
h-index

40881

93  
g-index

152  
all docs

152  
docs citations

152  
times ranked

6475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensor Recovery With Weighted Tensor Average Rank. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1142-1156.	7.2	4
2	A Hybrid Stochastic-Deterministic Minibatch Proximal Gradient Method for Efficient Optimization and Generalization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 5933-5946.	9.7	1
3	Training Neural Networks by Lifted Proximal Operator Machines. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3334-3348.	9.7	5
4	Investigating Bi-Level Optimization for Learning and Vision From a Unified Perspective: A Survey and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10045-10067.	9.7	37
5	Tensor principal component analysis. , 2022, , 153-213.		2
6	Optimization Induced Equilibrium Networks: An Explicit Optimization Perspective for Understanding Equilibrium Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	2
7	DATA: Differentiable Architecture Approximation With Distribution Guided Sampling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2905-2920.	9.7	9
8	Accelerated Variance Reduction Stochastic ADMM for Large-Scale Machine Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4242-4255.	9.7	16
9	Tensor Low-Rank Representation for Data Recovery and Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1718-1732.	9.7	74
10	Learning Deep Sparse Regularizers with Applications to Multi-View Clustering and Semi-Supervised Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	21
11	Recurrent learning with clique structures for prostate sparse-view CT artifacts reduction. IET Image Processing, 2021, 15, 648-655.	1.4	2
12	Reconstruction regularized low-rank subspace learning for cross-modal retrieval. Pattern Recognition, 2021, 113, 107813.	5.1	8
13	Tensor Q-rank: new data dependent definition of tensor rank. Machine Learning, 2021, 110, 1867-1900.	3.4	20
14	Towards Efficient Scene Understanding via Squeeze Reasoning. IEEE Transactions on Image Processing, 2021, 30, 7050-7063.	6.0	8
15	Graph Contrastive Clustering. , 2021, , .		44
16	Tensor Robust Principal Component Analysis with a New Tensor Nuclear Norm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 925-938.	9.7	500
17	Provable accelerated gradient method for nonconvex low rank optimization. Machine Learning, 2020, 109, 103-134.	3.4	4
18	Neural Multimodal Cooperative Learning Toward Micro-Video Understanding. IEEE Transactions on Image Processing, 2020, 29, 1-14.	6.0	96

#	ARTICLE	IF	CITATIONS
19	On the Convergence of Learning-Based Iterative Methods for Nonconvex Inverse Problems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 3027-3039.	9.7	51
20	How Can Machine Learning and Optimization Help Each Other Better?. Journal of the Operations Research Society of China, 2020, 8, 341-351.	0.9	1
21	Accelerated First-Order Optimization Algorithms for Machine Learning. Proceedings of the IEEE, 2020, 108, 2067-2082.	16.4	23
22	Multi-Stage Self-Supervised Learning for Graph Convolutional Networks on Graphs with Few Labeled Nodes. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5892-5899.	3.6	132
23	Decentralized Accelerated Gradient Methods With Increasing Penalty Parameters. IEEE Transactions on Signal Processing, 2020, 68, 4855-4870.	3.2	22
24	Unified Graph and Low-Rank Tensor Learning for Multi-View Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6388-6395.	3.6	45
25	Spatial Pyramid Based Graph Reasoning for Semantic Segmentation. , 2020, , .		104
26	Accelerated Optimization for Machine Learning. , 2020, , .		26
27	Revisiting EXTRA for Smooth Distributed Optimization. SIAM Journal on Optimization, 2020, 30, 1795-1821.	1.2	19
28	Dynamical System Inspired Adaptive Time Stepping Controller for Residual Network Families. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6648-6655.	3.6	6
29	Accelerated Algorithms for Constrained Convex Optimization. , 2020, , 57-108.		1
30	Accelerated Algorithms for Nonconvex Optimization. , 2020, , 109-135.		0
31	Accelerated Stochastic Algorithms. , 2020, , 137-207.		0
32	Accelerated Algorithms for Unconstrained Convex Optimization. , 2020, , 11-55.		0
33	The Augmented Homogeneous Coordinates Matrix-Based Projective Mismatch Removal for Partial-Duplicate Image Search. IEEE Transactions on Image Processing, 2019, 28, 181-193.	6.0	7
34	Essential Tensor Learning for Multi-View Spectral Clustering. IEEE Transactions on Image Processing, 2019, 28, 5910-5922.	6.0	186
35	Two-weight and three-weight linear codes based on Weil sums. Finite Fields and Their Applications, 2019, 57, 92-107.	0.6	29
36	Expectation-Maximization Attention Networks for Semantic Segmentation. , 2019, , .		332

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37	Deep Comprehensive Correlation Mining for Image Clustering. , 2019, , .		87
38	Lifted Proximal Operator Machines. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4181-4188.	3.6	13
39	$\ell_{1/2}$ -Norm Heteroscedastic Discriminant Analysis Under Mixture of Gaussian Distributions. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2898-2915.	7.2	8
40	Accelerated Alternating Direction Method of Multipliers: An Optimal $O(1/\hat{\kappa})$ Nonergodic Analysis. Journal of Scientific Computing, 2019, 79, 671-699.	1.1	22
41	ADA-Tucker: Compressing deep neural networks via adaptive dimension adjustment tucker decomposition. Neural Networks, 2019, 110, 104-115.	3.3	18
42	Subspace Clustering by Block Diagonal Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 487-501.	9.7	267
43	Subspace Clustering Under Complex Noise. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 930-940.	5.6	15
44	Robust 3D Human Pose Estimation from Single Images or Video Sequences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1227-1241.	9.7	31
45	Neural Ordinary Differential Equations with Envoluntary Weights. Lecture Notes in Computer Science, 2019, , 598-610.	1.0	0
46	Tensor Factorization for Low-Rank Tensor Completion. IEEE Transactions on Image Processing, 2018, 27, 1152-1163.	6.0	175
47	Globally Variance-Constrained Sparse Representation and Its Application in Image Set Coding. IEEE Transactions on Image Processing, 2018, 27, 3753-3765.	6.0	9
48	Binary Multidimensional Scaling for Hashing. IEEE Transactions on Image Processing, 2018, 27, 406-418.	6.0	9
49	Robust Matrix Factorization by Majorization Minimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 208-220.	9.7	38
50	A Unified Alternating Direction Method of Multipliers by Majorization Minimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 527-541.	9.7	118
51	Bilinear Factor Matrix Norm Minimization for Robust PCA: Algorithms and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2066-2080.	9.7	112
52	Dictionary learning with structured noise. Neurocomputing, 2018, 273, 414-423.	3.5	22
53	$t$ -Schatten- $p$ Norm for Low-Rank Tensor Recovery. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1405-1419.	7.3	64
54	On the Applications of Robust PCA in Image and Video Processing. Proceedings of the IEEE, 2018, 106, 1427-1457.	16.4	177

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55	Low-Rank Matrix Recovery Via Robust Outlier Estimation. IEEE Transactions on Image Processing, 2018, 27, 5316-5327.	6.0	17
56	Optimized projections for compressed sensing via direct mutual coherence minimization. Signal Processing, 2018, 151, 45-55.	2.1	36
57	Recurrent Squeeze-and-Excitation Context Aggregation Net for Single Image Deraining. Lecture Notes in Computer Science, 2018, , 262-277.	1.0	392
58	Demosaicking based on channel-correlation adaptive dictionary learning. Journal of Electronic Imaging, 2018, 27, 1.	0.5	2
59	Exact Low Tubal Rank Tensor Recovery from Gaussian Measurements. , 2018, , .		43
60	Optimized Color Filter Arrays for Sparse Representation-Based Demosaicking. IEEE Transactions on Image Processing, 2017, 26, 2381-2393.	6.0	14
61	Efficient tree-structured SfM by RANSAC generalized Procrustes analysis. Computer Vision and Image Understanding, 2017, 157, 179-189.	3.0	14
62	Locality-constrained linear coding based bi-layer model for multi-view facial expression recognition. Neurocomputing, 2017, 239, 143-152.	3.5	20
63	Label Information Guided Graph Construction for Semi-Supervised Learning. IEEE Transactions on Image Processing, 2017, 26, 4182-4192.	6.0	57
64	Feature learning via partial differential equation with applications to face recognition. Pattern Recognition, 2017, 69, 14-25.	5.1	20
65	Automatic Design of High-Sensitivity Color Filter Arrays With Panchromatic Pixels. IEEE Transactions on Image Processing, 2017, 26, 870-883.	6.0	17
66	Bilevel Model-Based Discriminative Dictionary Learning for Recognition. IEEE Transactions on Image Processing, 2017, 26, 1173-1187.	6.0	29
67	The Shape Interaction Matrix-Based Affine Invariant Mismatch Removal for Partial-Duplicate Image Search. IEEE Transactions on Image Processing, 2017, 26, 561-573.	6.0	18
68	Linear Models. , 2017, , 3-44.		0
69	Nonlinear Models. , 2017, , 45-54.		0
70	Optimization Algorithms. , 2017, , 55-110.		3
71	Representative Applications. , 2017, , 111-134.		0
72	Proofs. , 2017, , 139-225.		0

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73	ROUTE: Robust Outlier Estimation for Low Rank Matrix Recovery. , 2017, , .		5
74	Completing Low-Rank Matrices With Corrupted Samples From Few Coefficients in General Basis. IEEE Transactions on Information Theory, 2016, 62, 4748-4768.	1.5	11
75	Tensor Robust Principal Component Analysis: Exact Recovery of Corrupted Low-Rank Tensors via Convex Optimization. , 2016, , .		310
76	Convex Sparse Spectral Clustering: Single-View to Multi-View. IEEE Transactions on Image Processing, 2016, 25, 2833-2843.	6.0	143
77	Tensor LRR and Sparse Coding-Based Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2120-2133.	7.2	50
78	A fast alternating time-splitting approach for learning partial differential equations. Neurocomputing, 2016, 185, 171-182.	3.5	1
79	Penrose high-dynamic-range imaging. Journal of Electronic Imaging, 2016, 25, 033024.	0.5	5
80	Nonconvex Nonsmooth Low Rank Minimization via Iteratively Reweighted Nuclear Norm. IEEE Transactions on Image Processing, 2016, 25, 829-839.	6.0	235
81	Locality-preserving low-rank representation for graph construction from nonlinear manifolds. Neurocomputing, 2016, 175, 715-722.	3.5	32
82	Transformation invariant subspace clustering. Pattern Recognition, 2016, 59, 142-155.	5.1	22
83	Automatic Design of Color Filter Arrays in The Frequency Domain. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	17
84	Laplacian Regularized Low-Rank Representation and Its Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 504-517.	9.7	339
85	Integrated Low-Rank-Based Discriminative Feature Learning for Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1080-1093.	7.2	63
86	A review on low-rank models in data analysis. Big Data & Information Analytics, 2016, 1, 139-161.	1.3	17
87	Image tag completion and refinement by subspace clustering and matrix completion. , 2015, , .		4
88	Robust nuclear norm regularized regression for face recognition with occlusion. Pattern Recognition, 2015, 48, 3145-3159.	5.1	131
89	Smoothed Low Rank and Sparse Matrix Recovery by Iteratively Reweighted Least Squares Minimization. IEEE Transactions on Image Processing, 2015, 24, 646-654.	6.0	110
90	Linearized alternating direction method with parallel splitting and adaptive penalty for separable convex programs in machine learning. Machine Learning, 2015, 99, 287-325.	3.4	88

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91	Multi-Level Discriminative Dictionary Learning With Application to Large Scale Image Classification. IEEE Transactions on Image Processing, 2015, 24, 3109-3123.	6.0	51
92	Relations Among Some Low-Rank Subspace Recovery Models. Neural Computation, 2015, 27, 1915-1950.	1.3	23
93	Penrose Demosaicking. IEEE Transactions on Image Processing, 2015, 24, 1672-1684.	6.0	16
94	Dual Graph Regularized Latent Low-Rank Representation for Subspace Clustering. IEEE Transactions on Image Processing, 2015, 24, 4918-4933.	6.0	110
95	Constructing a Nonnegative Low-Rank and Sparse Graph With Data-Adaptive Features. IEEE Transactions on Image Processing, 2015, 24, 3717-3728.	6.0	96
96	A robust hybrid method for text detection in natural scenes by learning-based partial differential equations. Neurocomputing, 2015, 168, 23-34.	3.5	23
97	Robust Subspace Segmentation with Block-Diagonal Prior. , 2014, , .		129
98	Low Rank Global Geometric Consistency for Partial-Duplicate Image Search. , 2014, , .		4
99	Smooth Representation Clustering. , 2014, , .		178
100	L1-Norm Kernel Discriminant Analysis Via Bayes Error Bound Optimization for Robust Feature Extraction. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 793-805.	7.2	62
101	Generalized Nonconvex Nonsmooth Low-Rank Minimization. , 2014, , .		154
102	A Regularized Approach for Geodesic-Based Semisupervised Multimanifold Learning. IEEE Transactions on Image Processing, 2014, 23, 2133-2147.	6.0	14
103	Tensor LRR based subspace clustering. , 2014, , .		8
104	Transform invariant text extraction. Visual Computer, 2014, 30, 401-415.	2.5	9
105	Learning Markov random walks for robust subspace clustering and estimation. Neural Networks, 2014, 59, 1-15.	3.3	16
106	Robust latent low rank representation for subspace clustering. Neurocomputing, 2014, 145, 369-373.	3.5	55
107	Linear time Principal Component Pursuit and its extensions using $\hat{\alpha}_1$ filtering. Neurocomputing, 2014, 142, 529-541.	3.5	82
108	Linearized Alternating Direction Method with Adaptive Penalty and Warm Starts for Fast Solving Transform Invariant Low-Rank Textures. International Journal of Computer Vision, 2013, 104, 1-14.	10.9	59

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109	Regularized Semi-Supervised Latent Dirichlet Allocation for visual concept learning. Neurocomputing, 2013, 119, 26-32.	3.5	11
110	Toward designing intelligent PDEs for computer vision: An optimal control approach. Image and Vision Computing, 2013, 31, 43-56.	2.7	21
111	Rectification of Optical Characters as Transform Invariant Low-Rank Textures. , 2013, , .		6
112	Robust Recovery of Subspace Structures by Low-Rank Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 171-184.	9.7	2,694
113	Bases sorting: Generalizing the concept of frequency for over-complete dictionaries. Neurocomputing, 2013, 115, 192-200.	3.5	3
114	Fast gradient vector flow computation based on augmented Lagrangian method. Pattern Recognition Letters, 2013, 34, 219-225.	2.6	20
115	A comparison of typical $\ell_1$ minimization algorithms. Neurocomputing, 2013, 119, 413-424.	3.5	129
116	Correntropy Induced L2 Graph for Robust Subspace Clustering. , 2013, , .		58
117	Correlation Adaptive Subspace Segmentation by Trace Lasso. , 2013, , .		149
118	A new discriminant subspace analysis approach for multi-class problems. Pattern Recognition, 2012, 45, 1426-1435.	5.1	6
119	A Geometric Method for Optimal Design of Color Filter Arrays. IEEE Transactions on Image Processing, 2011, 20, 709-722.	6.0	36
120	The frequency structure matrix: A representation of color filter arrays. International Journal of Imaging Systems and Technology, 2011, 21, 101-106.	2.7	5
121	Learning Semi-Riemannian Metrics for Semisupervised Feature Extraction. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 600-611.	4.0	14
122	Feature extraction by learning Lorentzian metric tensor and its extensions. Pattern Recognition, 2010, 43, 3298-3306.	5.1	25
123	Learning PDEs for Image Restoration via Optimal Control. Lecture Notes in Computer Science, 2010, , 115-128.	1.0	29
124	A Rank-One Update Algorithm for Fast Solving Kernel Foley-Sammon Optimal Discriminant Vectors. IEEE Transactions on Neural Networks, 2010, 21, 393-403.	4.8	9
125	Emotion Recognition from Arbitrary View Facial Images. Lecture Notes in Computer Science, 2010, , 490-503.	1.0	46
126	Kernel Nyström method for light transport. , 2009, , .		19



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127	Kernel Nyström method for light transport. ACM Transactions on Graphics, 2009, 28, 1-10.	4.9	41
128	Fast, automatic and fine-grained tampered JPEG image detection via DCT coefficient analysis. Pattern Recognition, 2009, 42, 2492-2501.	5.1	340
129	Tensor linear Laplacian discrimination (TLLD) for feature extraction. Pattern Recognition, 2009, 42, 1941-1948.	5.1	33
130	Multi-output regression on the output manifold. Pattern Recognition, 2009, 42, 2737-2743.	5.1	38
131	Fast algorithms for recovering a corrupted low-rank matrix. , 2009, , .		149
132	Radon Representation-Based Feature Descriptor for Texture Classification. IEEE Transactions on Image Processing, 2009, 18, 921-928.	6.0	34
133	Limits of Learning-Based Superresolution Algorithms. International Journal of Computer Vision, 2008, 80, 406-420.	10.9	23
134	Perceptual image preview. Multimedia Systems, 2008, 14, 195-204.	3.0	3
135	Style-preserving English handwriting synthesis. Pattern Recognition, 2007, 40, 2097-2109.	5.1	58
136	Response to the comments on "Fundamental limits of reconstruction-based superresolution algorithms under local translation". IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 847-847.	9.7	7
137	Table detection in online ink notes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1341-1346.	9.7	8
138	Rule-based cleanup of on-line English ink notes. Pattern Recognition, 2006, 39, 1074-1087.	5.1	1
139	A Geometric Analysis of Light Field Rendering. International Journal of Computer Vision, 2004, 58, 121-138.	10.9	73
140	Fundamental limits of reconstruction-based superresolution algorithms under local translation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 83-97.	9.7	327
141	Correction and rectification of light fields. Computers and Graphics, 2003, 27, 169-177.	1.4	4
142	Relighting with the Reflected Irradiance Field: Representation, Sampling and Reconstruction. International Journal of Computer Vision, 2002, 49, 229-246.	10.9	27