

# Zhou-Chen Lin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146  
papers

6,868  
citations

38  
h-index

81  
g-index

152  
ext. papers

8,896  
ext. citations

6.7  
avg, IF

6.57  
L-index

#	Paper	IF	Citations
146	Tensor principal component analysis <b>2022</b> , 153-213		0
145	ADMM for Nonconvex Optimization <b>2022</b> , 113-141		
144	ADMM for Distributed Optimization <b>2022</b> , 207-240		
143	ADMM for Deterministic and Convex Optimization <b>2022</b> , 25-111		
142	Practical Issues and Conclusions <b>2022</b> , 241-247		
141	Accelerated Variance Reduction Stochastic ADMM for Large-Scale Machine Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 4242-4255	13.3	6
140	Investigating Bi-Level Optimization for Learning and Vision from a Unified Perspective: A Survey and Beyond. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	5
139	DATA: Differentiable ArchiTecture Approximation With Distribution Guided Sampling. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 2905-2920	13.3	2
138	Reconstruction regularized low-rank subspace learning for cross-modal retrieval. <i>Pattern Recognition</i> , <b>2021</b> , 113, 107813	7.7	2
137	Tensor Q-rank: new data dependent definition of tensor rank. <i>Machine Learning</i> , <b>2021</b> , 110, 1867	4	5
136	Tensor Low-Rank Representation for Data Recovery and Clustering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 1718-1732	13.3	26
135	A Hybrid Stochastic-Deterministic Minibatch Proximal Gradient Method for Efficient Optimization and Generalization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	1
134	Learning Deep Sparse Regularizers with Applications to Multi-View Clustering and Semi-Supervised Classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	6
133	Training Neural Networks by Lifted Proximal Operator Machines. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	2
132	Recurrent learning with clique structures for prostate sparse-view CT artifacts reduction. <i>IET Image Processing</i> , <b>2021</b> , 15, 648-655	1.7	0
131	Towards Efficient Scene Understanding via Squeeze Reasoning. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 7050-7063	8.7	0
130	Graph Contrastive Clustering <b>2021</b> ,		7

129	Accelerated Optimization for Machine Learning <b>2020</b> ,		8
128	Revisiting EXTRA for Smooth Distributed Optimization. <i>SIAM Journal on Optimization</i> , <b>2020</b> , 30, 1795-1821		10
127	Dynamical System Inspired Adaptive Time Stepping Controller for Residual Network Families. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 6648-6655	5	2
126	Accelerated Parallel Algorithms <b>2020</b> , 209-255		
125	Accelerated Algorithms for Nonconvex Optimization <b>2020</b> , 109-135		
124	Accelerated Stochastic Algorithms <b>2020</b> , 137-207		
123	Accelerated Algorithms for Unconstrained Convex Optimization <b>2020</b> , 11-55		
122	Accelerated Algorithms for Constrained Convex Optimization <b>2020</b> , 57-108		1
121	How Can Machine Learning and Optimization Help Each Other Better?. <i>Journal of the Operations Research Society of China</i> , <b>2020</b> , 8, 341-351	1.3	1
120	Accelerated First-Order Optimization Algorithms for Machine Learning. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 2067-2082	14.3	6
119	Multi-Stage Self-Supervised Learning for Graph Convolutional Networks on Graphs with Few Labeled Nodes. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 5892-5899	5	43
118	Decentralized Accelerated Gradient Methods With Increasing Penalty Parameters. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 4855-4870	4.8	7
117	Unified Graph and Low-Rank Tensor Learning for Multi-View Clustering. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 6388-6395	5	18
116	Spatial Pyramid Based Graph Reasoning for Semantic Segmentation <b>2020</b> ,		37
115	Tensor Robust Principal Component Analysis with a New Tensor Nuclear Norm. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 925-938	13.3	228
114	Provable accelerated gradient method for nonconvex low rank optimization. <i>Machine Learning</i> , <b>2020</b> , 109, 103-134	4	3
113	Neural Multimodal Cooperative Learning Toward Micro-Video Understanding. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 1-14	8.7	49
112	On the Convergence of Learning-Based Iterative Methods for Nonconvex Inverse Problems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 3027-3039	13.3	30

111	Two-weight and three-weight linear codes based on Weil sums. <i>Finite Fields and Their Applications</i> , <b>2019</b> , 57, 92-107	1.3	20
110	The Augmented Homogeneous Coordinates Matrix-Based Projective Mismatch Removal for Partial-Duplicate Image Search. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 181-193	8.7	2
109	Essential Tensor Learning for Multi-View Spectral Clustering. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 5910-5922	8.7	81
108	Neural Ordinary Differential Equations with Evolutionary Weights. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 598-610	0.9	
107	Expectation-Maximization Attention Networks for Semantic Segmentation <b>2019</b> ,		143
106	Deep Comprehensive Correlation Mining for Image Clustering <b>2019</b> ,		33
105	Lifted Proximal Operator Machines. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 4181-4188	5	8
104	l-Norm Heteroscedastic Discriminant Analysis Under Mixture of Gaussian Distributions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 2898-2915	10.3	5
103	Accelerated Alternating Direction Method of Multipliers: An Optimal $O(1 / K)$ Nonergodic Analysis. <i>Journal of Scientific Computing</i> , <b>2019</b> , 79, 671-699	2.3	13
102	ADA-Tucker: Compressing deep neural networks via adaptive dimension adjustment tucker decomposition. <i>Neural Networks</i> , <b>2019</b> , 110, 104-115	9.1	8
101	Subspace Clustering by Block Diagonal Representation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 487-501	13.3	138
100	Subspace Clustering Under Complex Noise. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2019</b> , 29, 930-940	6.4	7
99	Robust 3D Human Pose Estimation from Single Images or Video Sequences. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 1227-1241	13.3	17
98	Tensor Factorization for Low-Rank Tensor Completion. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 1152-1163	8.7	101
97	Globally Variance-Constrained Sparse Representation and Its Application in Image Set Coding. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 3753-3765	8.7	6
96	Binary Multidimensional Scaling for Hashing. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 406-418	8.7	7
95	Robust Matrix Factorization by Majorization Minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 208-220	13.3	27
94	A Unified Alternating Direction Method of Multipliers by Majorization Minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 527-541	13.3	74

93	Bilinear Factor Matrix Norm Minimization for Robust PCA: Algorithms and Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 2066-2080	13.3	64
92	Dictionary learning with structured noise. <i>Neurocomputing</i> , <b>2018</b> , 273, 414-423	5.4	19
91	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 1427-1457	14.3	114
90	Low Rank Matrix Recovery via Robust Outlier Estimation. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7	8
89	Optimized projections for compressed sensing via direct mutual coherence minimization. <i>Signal Processing</i> , <b>2018</b> , 151, 45-55	4.4	23
88	Demosaicking based on channel-correlation adaptive dictionary learning. <i>Journal of Electronic Imaging</i> , <b>2018</b> , 27, 1	0.7	1
87	Exact Low Tubal Rank Tensor Recovery from Gaussian Measurements <b>2018</b> ,		33
86	Recurrent Squeeze-and-Excitation Context Aggregation Net for Single Image Deraining. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 262-277	0.9	165
85	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2018</b> , 12, 1405-1419	7.5	34
84	Optimized Color Filter Arrays for Sparse Representation-Based Demosaicking. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 2381-2393	8.7	12
83	Efficient tree-structured SfM by RANSAC generalized Procrustes analysis. <i>Computer Vision and Image Understanding</i> , <b>2017</b> , 157, 179-189	4.3	6
82	Locality-constrained linear coding based bi-layer model for multi-view facial expression recognition. <i>Neurocomputing</i> , <b>2017</b> , 239, 143-152	5.4	12
81	Label Information Guided Graph Construction for Semi-Supervised Learning. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 4182-4192	8.7	35
80	Feature learning via partial differential equation with applications to face recognition. <i>Pattern Recognition</i> , <b>2017</b> , 69, 14-25	7.7	15
79	Automatic Design of High-Sensitivity Color Filter Arrays with Panchromatic Pixels. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 870-883	8.7	8
78	Bilevel Model-Based Discriminative Dictionary Learning for Recognition. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 1173-1187	8.7	24
77	The Shape Interaction Matrix-Based Affine Invariant Mismatch Removal for Partial-Duplicate Image Search. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 561-573	8.7	12
76	Linear Models <b>2017</b> , 3-44		

75	Nonlinear Models <b>2017</b> , 45-54		
74	Optimization Algorithms <b>2017</b> , 55-110		1
73	Representative Applications <b>2017</b> , 111-134		
72	Proofs <b>2017</b> , 139-225		
71	ROUTE: Robust Outlier Estimation for Low Rank Matrix Recovery <b>2017</b> ,		4
70	Integrated Low-Rank-Based Discriminative Feature Learning for Recognition. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2016</b> , 27, 1080-93	10.3	54
69	A fast alternating time-splitting approach for learning partial differential equations. <i>Neurocomputing</i> , <b>2016</b> , 185, 171-182	5.4	1
68	Penrose high-dynamic-range imaging. <i>Journal of Electronic Imaging</i> , <b>2016</b> , 25, 033024	0.7	5
67	Nonconvex Nonsmooth Low Rank Minimization via Iteratively Reweighted Nuclear Norm. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 829-39	8.7	146
66	Locality-preserving low-rank representation for graph construction from nonlinear manifolds. <i>Neurocomputing</i> , <b>2016</b> , 175, 715-722	5.4	25
65	Transformation invariant subspace clustering. <i>Pattern Recognition</i> , <b>2016</b> , 59, 142-155	7.7	18
64	Automatic Design of Color Filter Arrays in the Frequency Domain. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 1793-807	8.7	12
63	Laplacian Regularized Low-Rank Representation and Its Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2016</b> , 38, 504-17	13.3	243
62	A review on low-rank models in data analysis. <i>Big Data &amp; Information Analytics</i> , <b>2016</b> , 1, 139-161	1	13
61	Completing Low-Rank Matrices With Corrupted Samples From Few Coefficients in General Basis. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 4748-4768	2.8	10
60	Tensor Robust Principal Component Analysis: Exact Recovery of Corrupted Low-Rank Tensors via Convex Optimization <b>2016</b> ,		197
59	Convex Sparse Spectral Clustering: Single-View to Multi-View. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 2833-2843	8.7	102
58	Tensor LRR and Sparse Coding-Based Subspace Clustering. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2016</b> , 27, 2120-33	10.3	42

57	Smoothed low rank and sparse matrix recovery by iteratively reweighted least squares minimization. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 646-54	8.7	79
56	Linearized alternating direction method with parallel splitting and adaptive penalty for separable convex programs in machine learning. <i>Machine Learning</i> , <b>2015</b> , 99, 287-325	4	71
55	Multi-level discriminative dictionary learning with application to large scale image classification. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 3109-23	8.7	31
54	Relations Among Some Low-Rank Subspace Recovery Models. <i>Neural Computation</i> , <b>2015</b> , 27, 1915-50	2.9	22
53	Penrose demosaicking. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 1672-84	8.7	14
52	Dual Graph Regularized Latent Low-Rank Representation for Subspace Clustering. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 4918-33	8.7	82
51	Constructing a Nonnegative Low-Rank and Sparse Graph With Data-Adaptive Features. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 3717-28	8.7	83
50	A robust hybrid method for text detection in natural scenes by learning-based partial differential equations. <i>Neurocomputing</i> , <b>2015</b> , 168, 23-34	5.4	18
49	Image tag completion and refinement by subspace clustering and matrix completion <b>2015</b> ,		3
48	Robust nuclear norm regularized regression for face recognition with occlusion. <i>Pattern Recognition</i> , <b>2015</b> , 48, 3145-3159	7.7	87
47	A regularized approach for geodesic-based semisupervised multimanifold learning. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 2133-47	8.7	14
46	Tensor LRR based subspace clustering <b>2014</b> ,		6
45	Transform invariant text extraction. <i>Visual Computer</i> , <b>2014</b> , 30, 401-415	2.3	6
44	Learning Markov Random Walks for robust subspace clustering and estimation. <i>Neural Networks</i> , <b>2014</b> , 59, 1-15	9.1	14
43	Robust latent low rank representation for subspace clustering. <i>Neurocomputing</i> , <b>2014</b> , 145, 369-373	5.4	47
42	Linear time Principal Component Pursuit and its extensions using $\ell_1$ filtering. <i>Neurocomputing</i> , <b>2014</b> , 142, 529-541	5.4	47
41	Robust Subspace Segmentation with Block-Diagonal Prior <b>2014</b> ,		85
40	Low Rank Global Geometric Consistency for Partial-Duplicate Image Search <b>2014</b> ,		4

39	Smooth Representation Clustering <b>2014</b> ,		123
38	L1-norm kernel discriminant analysis via Bayes error bound optimization for robust feature extraction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2014</b> , 25, 793-805	10.3	52
37	Generalized Nonconvex Nonsmooth Low-Rank Minimization <b>2014</b> ,		121
36	Linearized Alternating Direction Method with Adaptive Penalty and Warm Starts for Fast Solving Transform Invariant Low-Rank Textures. <i>International Journal of Computer Vision</i> , <b>2013</b> , 104, 1-14	10.6	41
35	Regularized Semi-Supervised Latent Dirichlet Allocation for visual concept learning. <i>Neurocomputing</i> , <b>2013</b> , 119, 26-32	5.4	6
34	Toward designing intelligent PDEs for computer vision: An optimal control approach. <i>Image and Vision Computing</i> , <b>2013</b> , 31, 43-56	3.7	18
33	Rectification of Optical Characters as Transform Invariant Low-Rank Textures <b>2013</b> ,		3
32	Robust recovery of subspace structures by low-rank representation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 171-84	13.3	1882
31	Bases sorting: Generalizing the concept of frequency for over-complete dictionaries. <i>Neurocomputing</i> , <b>2013</b> , 115, 192-200	5.4	3
30	Fast gradient vector flow computation based on augmented Lagrangian method. <i>Pattern Recognition Letters</i> , <b>2013</b> , 34, 219-225	4.7	14
29	A comparison of typical $\ell_1$ minimization algorithms. <i>Neurocomputing</i> , <b>2013</b> , 119, 413-424	5.4	87
28	Correntropy Induced L2 Graph for Robust Subspace Clustering <b>2013</b> ,		41
27	Correlation Adaptive Subspace Segmentation by Trace Lasso <b>2013</b> ,		108
26	A Counterexample for the Validity of Using Nuclear Norm as a Convex Surrogate of Rank. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 226-241	0.9	10
25	A new discriminant subspace analysis approach for multi-class problems. <i>Pattern Recognition</i> , <b>2012</b> , 45, 1426-1435	7.7	5
24	A geometric method for optimal design of color filter arrays. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 709-22	8.7	23
23	The frequency structure matrix: A representation of color filter arrays. <i>International Journal of Imaging Systems and Technology</i> , <b>2011</b> , 21, 101-106	2.5	5
22	Learning Semi-Riemannian Metrics for Semisupervised Feature Extraction. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2011</b> , 23, 600-611	4.2	12



21	Learning PDEs for Image Restoration via Optimal Control. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 115-128	12.8	22
20	A rank-one update algorithm for fast solving kernel Foley-Sammon optimal discriminant vectors. <i>IEEE Transactions on Neural Networks</i> , <b>2010</b> , 21, 393-403		9
19	Feature extraction by learning Lorentzian metric tensor and its extensions. <i>Pattern Recognition</i> , <b>2010</b> , 43, 3298-3306	7.7	17
18	Emotion Recognition from Arbitrary View Facial Images. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 490-503	9	31
17	Kernel Nyström method for light transport <b>2009</b> ,		14
16	Kernel Nyström method for light transport. <i>ACM Transactions on Graphics</i> , <b>2009</b> , 28, 1-10	7.6	25
15	Fast, automatic and fine-grained tampered JPEG image detection via DCT coefficient analysis. <i>Pattern Recognition</i> , <b>2009</b> , 42, 2492-2501	7.7	245
14	Tensor linear Laplacian discrimination (TLLD) for feature extraction. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1941-1948	7.7	28
13	Multi-output regression on the output manifold. <i>Pattern Recognition</i> , <b>2009</b> , 42, 2737-2743	7.7	28
12	<b>2009</b> ,		120
11	Radon representation-based feature descriptor for texture classification. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 921-8	8.7	25
10	Limits of Learning-Based Superresolution Algorithms. <i>International Journal of Computer Vision</i> , <b>2008</b> , 80, 406-420	10.6	20
9	Perceptual image preview. <i>Multimedia Systems</i> , <b>2008</b> , 14, 195-204	2.2	1
8	Style-preserving English handwriting synthesis. <i>Pattern Recognition</i> , <b>2007</b> , 40, 2097-2109	7.7	40
7	Response to the comments on "Fundamental limits of reconstruction-based superresolution algorithms under local translation". <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 847-847	13.3	5
6	Table detection in online ink notes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1341-6	13.3	7
5	Rule-based cleanup of on-line English ink notes. <i>Pattern Recognition</i> , <b>2006</b> , 39, 1074-1087	7.7	1
4	A Geometric Analysis of Light Field Rendering. <i>International Journal of Computer Vision</i> , <b>2004</b> , 58, 121-138	10.6	47

3	Fundamental limits of reconstruction-based superresolution algorithms under local translation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2004</b> , 26, 83-97	13.3	241
2	Correction and rectification of light fields. <i>Computers and Graphics</i> , <b>2003</b> , 27, 169-177	1.8	4
1	Relighting with the Reflected Irradiance Field: Representation, Sampling and Reconstruction. <i>International Journal of Computer Vision</i> , <b>2002</b> , 49, 229-246	10.6	18