

# Zhou-Chen Lin

## List of Publications by Citations

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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	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
145	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
144	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
143	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
142	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
141	Tensor Robust Principal Component Analysis: Exact Recovery of Corrupted Low-Rank Tensors via Convex Optimization <b>2016</b> ,		197
140	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
139	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
138	Expectation-Maximization Attention Networks for Semantic Segmentation <b>2019</b> ,		143
137	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
136	Smooth Representation Clustering <b>2014</b> ,		123
135	Generalized Nonconvex Nonsmooth Low-Rank Minimization <b>2014</b> ,		121
134	<b>2009</b> ,		120
133	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 1427-1457	14.3	114
132	Correlation Adaptive Subspace Segmentation by Trace Lasso <b>2013</b> ,		108
131	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
130	Tensor Factorization for Low-Rank Tensor Completion. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 1152-1163	8.7	101

129	Robust nuclear norm regularized regression for face recognition with occlusion. <i>Pattern Recognition</i> , <b>2015</b> , 48, 3145-3159	7.7	87
128	A comparison of typical $\ell_1$ minimization algorithms. <i>Neurocomputing</i> , <b>2013</b> , 119, 413-424	5.4	87
127	Robust Subspace Segmentation with Block-Diagonal Prior <b>2014</b> ,		85
126	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
125	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
124	Essential Tensor Learning for Multi-View Spectral Clustering. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 5910-5922	8.7	81
123	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
122	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
121	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
120	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
119	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
118	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
117	Neural Multimodal Cooperative Learning Toward Micro-Video Understanding. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 1-14	8.7	49
116	Robust latent low rank representation for subspace clustering. <i>Neurocomputing</i> , <b>2014</b> , 145, 369-373	5.4	47
115	Linear time Principal Component Pursuit and its extensions using $\ell_1$ filtering. <i>Neurocomputing</i> , <b>2014</b> , 142, 529-541	5.4	47
114	A Geometric Analysis of Light Field Rendering. <i>International Journal of Computer Vision</i> , <b>2004</b> , 58, 121-138	6.6	47
113	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
112	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

111	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
110	Correntropy Induced L2 Graph for Robust Subspace Clustering <b>2013</b> ,		41
109	Style-preserving English handwriting synthesis. <i>Pattern Recognition</i> , <b>2007</b> , 40, 2097-2109	7.7	40
108	Spatial Pyramid Based Graph Reasoning for Semantic Segmentation <b>2020</b> ,		37
107	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
106	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2018</b> , 12, 1405-1419	7.5	34
105	Exact Low Tubal Rank Tensor Recovery from Gaussian Measurements <b>2018</b> ,		33
104	Deep Comprehensive Correlation Mining for Image Clustering <b>2019</b> ,		33
103	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
102	Emotion Recognition from Arbitrary View Facial Images. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 490-503.9		31
101	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
100	Tensor linear Laplacian discrimination (TLLD) for feature extraction. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1941-1948	7.9	28
99	Multi-output regression on the output manifold. <i>Pattern Recognition</i> , <b>2009</b> , 42, 2737-2743	7.7	28
98	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
97	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
96	Locality-preserving low-rank representation for graph construction from nonlinear manifolds. <i>Neurocomputing</i> , <b>2016</b> , 175, 715-722	5.4	25
95	Kernel Nyström method for light transport. <i>ACM Transactions on Graphics</i> , <b>2009</b> , 28, 1-10	7.6	25
94	Radon representation-based feature descriptor for texture classification. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 921-8	8.7	25

93	Bilevel Model-Based Discriminative Dictionary Learning for Recognition. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 1173-1187	8.7	24
92	Optimized projections for compressed sensing via direct mutual coherence minimization. <i>Signal Processing</i> , <b>2018</b> , 151, 45-55	4.4	23
91	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
90	Relations Among Some Low-Rank Subspace Recovery Models. <i>Neural Computation</i> , <b>2015</b> , 27, 1915-50	2.9	22
89	Learning PDEs for Image Restoration via Optimal Control. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 115-128	1.3	22
88	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
87	Limits of Learning-Based Superresolution Algorithms. <i>International Journal of Computer Vision</i> , <b>2008</b> , 80, 406-420	10.6	20
86	Dictionary learning with structured noise. <i>Neurocomputing</i> , <b>2018</b> , 273, 414-423	5.4	19
85	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
84	Transformation invariant subspace clustering. <i>Pattern Recognition</i> , <b>2016</b> , 59, 142-155	7.7	18
83	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
82	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
81	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
80	Feature extraction by learning Lorentzian metric tensor and its extensions. <i>Pattern Recognition</i> , <b>2010</b> , 43, 3298-3306	7.7	17
79	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
78	Feature learning via partial differential equation with applications to face recognition. <i>Pattern Recognition</i> , <b>2017</b> , 69, 14-25	7.7	15
77	Penrose demosaicking. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 1672-84	8.7	14
76	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

75	Learning Markov Random Walks for robust subspace clustering and estimation. <i>Neural Networks</i> , <b>2014</b> , 59, 1-15	9.1	14
74	Fast gradient vector flow computation based on augmented Lagrangian method. <i>Pattern Recognition Letters</i> , <b>2013</b> , 34, 219-225	4.7	14
73	Kernel Nyström method for light transport <b>2009</b> ,		14
72	A review on low-rank models in data analysis. <i>Big Data &amp; Information Analytics</i> , <b>2016</b> , 1, 139-161	1	13
71	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
70	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
69	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
68	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
67	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
66	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
65	Revisiting EXTRA for Smooth Distributed Optimization. <i>SIAM Journal on Optimization</i> , <b>2020</b> , 30, 1795-1821		10
64	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
63	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
62	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
61	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
60	Accelerated Optimization for Machine Learning <b>2020</b> ,		8
59	Low Rank Matrix Recovery via Robust Outlier Estimation. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7	8
58	Lifted Proximal Operator Machines. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 4181-4188	5	8

57	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
56	Binary Multidimensional Scaling for Hashing. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 406-418	8.7	7
55	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
54	Decentralized Accelerated Gradient Methods With Increasing Penalty Parameters. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 4855-4870	4.8	7
53	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
52	Graph Contrastive Clustering <b>2021</b> ,		7
51	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
50	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
49	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
48	Tensor LRR based subspace clustering <b>2014</b> ,		6
47	Transform invariant text extraction. <i>Visual Computer</i> , <b>2014</b> , 30, 401-415	2.3	6
46	Regularized Semi-Supervised Latent Dirichlet Allocation for visual concept learning. <i>Neurocomputing</i> , <b>2013</b> , 119, 26-32	5.4	6
45	Accelerated First-Order Optimization Algorithms for Machine Learning. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 2067-2082	14.3	6
44	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
43	Penrose high-dynamic-range imaging. <i>Journal of Electronic Imaging</i> , <b>2016</b> , 25, 033024	0.7	5
42	A new discriminant subspace analysis approach for multi-class problems. <i>Pattern Recognition</i> , <b>2012</b> , 45, 1426-1435	7.7	5
41	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
40	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

39	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
38	Tensor Q-rank: new data dependent definition of tensor rank. <i>Machine Learning</i> , <b>2021</b> , 110, 1867	4	5
37	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
36	Low Rank Global Geometric Consistency for Partial-Duplicate Image Search <b>2014</b> ,		4
35	Correction and rectification of light fields. <i>Computers and Graphics</i> , <b>2003</b> , 27, 169-177	1.8	4
34	ROUTE: Robust Outlier Estimation for Low Rank Matrix Recovery <b>2017</b> ,		4
33	Rectification of Optical Characters as Transform Invariant Low-Rank Textures <b>2013</b> ,		3
32	Bases sorting: Generalizing the concept of frequency for over-complete dictionaries. <i>Neurocomputing</i> , <b>2013</b> , 115, 192-200	5.4	3
31	Image tag completion and refinement by subspace clustering and matrix completion <b>2015</b> ,		3
30	Provable accelerated gradient method for nonconvex low rank optimization. <i>Machine Learning</i> , <b>2020</b> , 109, 103-134	4	3
29	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
28	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
27	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
26	Reconstruction regularized low-rank subspace learning for cross-modal retrieval. <i>Pattern Recognition</i> , <b>2021</b> , 113, 107813	7.7	2
25	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
24	A fast alternating time-splitting approach for learning partial differential equations. <i>Neurocomputing</i> , <b>2016</b> , 185, 171-182	5.4	1
23	Optimization Algorithms <b>2017</b> , 55-110		1
22	Perceptual image preview. <i>Multimedia Systems</i> , <b>2008</b> , 14, 195-204	2.2	1

21	Rule-based cleanup of on-line English ink notes. <i>Pattern Recognition</i> , <b>2006</b> , 39, 1074-1087	7.7	1
20	Demosaicking based on channel-correlation adaptive dictionary learning. <i>Journal of Electronic Imaging</i> , <b>2018</b> , 27, 1	0.7	1
19	Accelerated Algorithms for Constrained Convex Optimization <b>2020</b> , 57-108		1
18	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
17	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
16	Tensor principal component analysis <b>2022</b> , 153-213		0
15	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
14	Towards Efficient Scene Understanding via Squeeze Reasoning. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 7050-7063	8.7	0
13	Linear Models <b>2017</b> , 3-44		
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5	Neural Ordinary Differential Equations with Evolutionary Weights. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 598-610	0.9	
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