Lei Zhang

List of Publications by Citations

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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.

407 papers	37,625 citations	94 h-index	188 g-index
425 ext. papers	47,466 ext. citations	5.5 avg, IF	8.1 L-index

#	Paper	IF	Citations
407	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. *IEEE Transactions on Image Processing*, **2017**, 26, 3142-3155	8.7	2526
406	FSIM: a feature similarity index for image quality assessment. *IEEE Transactions on Image Processing*, **2011**, 20, 2378-86	8.7	2523
405	A completed modeling of local binary pattern operator for texture classification. *IEEE Transactions on Image Processing*, **2010**, 19, 1657-63	8.7	1283
404	Nonlocally centralized sparse representation for image restoration. *IEEE Transactions on Image Processing*, **2013**, 22, 1620-30	8.7	904
403	Image deblurring and super-resolution by adaptive sparse domain selection and adaptive regularization. *IEEE Transactions on Image Processing*, **2011**, 20, 1838-57	8.7	845
402	Sparse representation or collaborative representation: Which helps face recognition? **2011**,		823
401	Weighted Nuclear Norm Minimization with Application to Image Denoising **2014**,		760
400	FFDNet: Toward a Fast and Flexible Solution for CNN based Image Denoising. *IEEE Transactions on Image Processing*, **2018**,	8.7	731
399	Gradient Magnitude Similarity Deviation: A Highly Efficient Perceptual Image Quality Index. *IEEE Transactions on Image Processing*, **2014**, 23, 684-95	8.7	723
398	Learning Deep CNN Denoiser Prior for Image Restoration **2017**,		647
397	An edge-guided image interpolation algorithm via directional filtering and data fusion. *IEEE Transactions on Image Processing*, **2006**, 15, 2226-38	8.7	582
396	Rotation invariant texture classification using LBP variance (LBPV) with global matching. *Pattern Recognition*, **2010**, 43, 706-719	7.7	574
395	Real-Time Compressive Tracking. *Lecture Notes in Computer Science*, **2012**, 864-877	0.9	539
394	Active contours with selective local or global segmentation: A new formulation and level set method. *Image and Vision Computing*, **2010**, 28, 668-676	3.7	517
393	Fisher Discrimination Dictionary Learning for sparse representation **2011**,		495
392	Active contours driven by local image fitting energy. *Pattern Recognition*, **2010**, 43, 1199-1206	7.7	494
391	A feature-enriched completely blind image quality evaluator. *IEEE Transactions on Image Processing*, **2015**, 24, 2579-91	8.7	469

390	Two-stage image denoising by principal component analysis with local pixel grouping. *Pattern Recognition*, **2010**, 43, 1531-1549	7.7	445
389	Second-Order Attention Network for Single Image Super-Resolution **2019**,		428
388	Fast Compressive Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2014**, 36, 2002-15	13.9	374
387	Low-dose X-ray CT reconstruction via dictionary learning. *IEEE Transactions on Medical Imaging*, **2012**, 31, 1682-97	11.7	362
386	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. *International Journal of Computer Vision*, **2017**, 121, 183-208	10.6	353
385	Sparse Representation Based Fisher Discrimination Dictionary Learning for Image Classification. *International Journal of Computer Vision*, **2014**, 109, 209-232	10.6	343
384	Retinal vessel extraction by matched filter with first-order derivative of Gaussian. *Computers in Biology and Medicine*, **2010**, 40, 438-45	7	341
383	Bit-Scalable Deep Hashing With Regularized Similarity Learning for Image Retrieval and Person Re-Identification. *IEEE Transactions on Image Processing*, **2015**, 24, 4766-79	8.7	339
382	Blind image quality assessment using joint statistics of gradient magnitude and Laplacian features. *IEEE Transactions on Image Processing*, **2014**, 23, 4850-62	8.7	334
381	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations **2018**,		311
380	Canny edge detection enhancement by scale multiplication. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2005**, 27, 1485-90	13.3	305
379	Robust sparse coding for face recognition **2011**,		301
378	A Level Set Approach to Image Segmentation With Intensity Inhomogeneity. *IEEE Transactions on Cybernetics*, **2016**, 46, 546-57	10.2	284
377	Fast Visual Tracking via Dense Spatio-temporal Context Learning. *Lecture Notes in Computer Science* , **2014**, 127-141	0.9	278
376	. *IEEE Transactions on Instrumentation and Measurement*, **2010**, 59, 480-490	5.2	258
375	Interactive image segmentation by maximal similarity based region merging. *Pattern Recognition*, **2010**, 43, 445-456	7.7	252
374	Sparse representation based image interpolation with nonlocal autoregressive modeling. *IEEE Transactions on Image Processing*, **2013**, 22, 1382-94	8.7	250
373	Image retrieval based on micro-structure descriptor. *Pattern Recognition*, **2011**, 44, 2123-2133	7.7	244

372	Toward Convolutional Blind Denoising of Real Photographs **2019**,		242
371	Online finger-knuckle-print verification for personal authentication. *Pattern Recognition*, **2010**, 43, 2560-2571	7.7	240
370	A survey of graph theoretical approaches to image segmentation. *Pattern Recognition*, **2013**, 46, 1020-1038	7.7	231
369	**2011**,		228
368	Learning without Human Scores for Blind Image Quality Assessment **2013**,		221
367	Color demosaicking via directional linear minimum mean square-error estimation. *IEEE Transactions on Image Processing*, **2005**, 14, 2167-78	8.7	220
366	Waterloo Exploration Database: New Challenges for Image Quality Assessment Models. *IEEE Transactions on Image Processing*, **2017**, 26, 1004-1016	8.7	218
365	Image retrieval based on multi-texton histogram. *Pattern Recognition*, **2010**, 43, 2380-2389	7.7	215
364	Regularized robust coding for face recognition. *IEEE Transactions on Image Processing*, **2013**, 22, 1753-66	8.7	207
363	Metaface learning for sparse representation based face recognition **2010**,		198
362	Joint Learning of Single-Image and Cross-Image Representations for Person Re-identification **2016**,		198
361	Noise reduction for magnetic resonance images via adaptive multiscale products thresholding. *IEEE Transactions on Medical Imaging*, **2003**, 22, 1089-99	11.7	189
360	Weighted Schatten p -Norm Minimization for Image Denoising and Background Subtraction. *IEEE Transactions on Image Processing*, **2016**, 25, 4842-4857	8.7	185
359	Unsupervised feature selection by regularized self-representation. *Pattern Recognition*, **2015**, 48, 438-446	7.7	182
358	Gabor Feature Based Sparse Representation for Face Recognition with Gabor Occlusion Dictionary. *Lecture Notes in Computer Science*, **2010**, 448-461	0.9	181
357	Palmprint verification using binary orientation co-occurrence vector. *Pattern Recognition Letters*, **2009**, 30, 1219-1227	4.7	181
356	A sparse embedding and least variance encoding approach to hashing. *IEEE Transactions on Image Processing*, **2014**, 23, 3737-50	8.7	178
355	Beyond sparsity: The role of L1-optimizer in pattern classification. *Pattern Recognition*, **2012**, 45, 1104-1118	7.7	176

354	Patch Group Based Nonlocal Self-Similarity Prior Learning for Image Denoising **2015**,		169
353	Gaussian kernel based fuzzy rough sets: Model, uncertainty measures and applications. *International Journal of Approximate Reasoning*, **2010**, 51, 453-471	3.6	163
352	Sparse representation classifier steered discriminative projection with applications to face recognition. *IEEE Transactions on Neural Networks and Learning Systems*, **2013**, 24, 1023-35	10.3	161
351	Deep Convolutional Neural Models for Picture-Quality Prediction: Challenges and Solutions to Data-Driven Image Quality Assessment. *IEEE Signal Processing Magazine*, **2017**, 34, 130-141	9.4	159
350	Tumor clustering using nonnegative matrix factorization with gene selection. *IEEE Transactions on Information Technology in Biomedicine*, **2009**, 13, 599-607		157
349	Convolutional Sparse Coding for Image Super-Resolution **2015**,		154
348	**2013**,		153
347	Reinitialization-free level set evolution via reaction diffusion. *IEEE Transactions on Image Processing*, **2013**, 22, 258-71	8.7	150
346	Color demosaicking by local directional interpolation and nonlocal adaptive thresholding. *Journal of Electronic Imaging*, **2011**, 20, 023016	0.7	145
345	Robust Multi-Exposure Image Fusion: A Structural Patch Decomposition Approach. *IEEE Transactions on Image Processing*, **2017**, 26, 2519-2532	8.7	144
344	A multi-manifold discriminant analysis method for image feature extraction. *Pattern Recognition*, **2011**, 44, 1649-1657	7.7	144
343	Real-time object tracking via online discriminative feature selection. *IEEE Transactions on Image Processing*, **2013**, 22, 4664-77	8.7	143
342	Ensemble of local and global information for finger-knuckle-print recognition. *Pattern Recognition*, **2011**, 44, 1990-1998	7.7	142
341	Two denoising methods by wavelet transform. *IEEE Transactions on Signal Processing*, **1999**, 47, 3401-3406	4.8	140
340	Centralized sparse representation for image restoration **2011**,		139
339	Characterization of palmprints by wavelet signatures via directional context modeling. *IEEE Transactions on Systems, Man, and Cybernetics*, **2004**, 34, 1335-47		139
338	ROBUST OBJECT TRACKING USING JOINT COLOR-TEXTURE HISTOGRAM. *International Journal of Pattern Recognition and Artificial Intelligence*, **2009**, 23, 1245-1263	1.1	134
337	A Probabilistic Collaborative Representation Based Approach for Pattern Classification **2016**,		133

336	A Novel Algorithm for Finding Reducts With Fuzzy Rough Sets. *IEEE Transactions on Fuzzy Systems*, **2012**, 20, 385-389	8.3	131
335	Mixed noise removal by weighted encoding with sparse nonlocal regularization. *IEEE Transactions on Image Processing*, **2014**, 23, 2651-62	8.7	129
334	Multi-channel Weighted Nuclear Norm Minimization for Real Color Image Denoising **2017**,		126
333	Image demosaicing: a systematic survey **2008**,		124
332	Deep Plug-And-Play Super-Resolution for Arbitrary Blur Kernels **2019**,		116
331	Edge detection by scale multiplication in wavelet domain. *Pattern Recognition Letters*, **2002**, 23, 1771-1784	4.7	114
330	On Unifying Multi-view Self-Representations for Clustering by Tensor Multi-rank Minimization. *International Journal of Computer Vision*, **2018**, 126, 1157-1179	10.6	113
329	Face recognition using FLDA with single training image per person. *Applied Mathematics and Computation*, **2008**, 205, 726-734	2.7	112
328	Robust mean-shift tracking with corrected background-weighted histogram. *IET Computer Vision*, **2012**, 6, 62	1.4	108
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322	Rank Entropy-Based Decision Trees for Monotonic Classification. *IEEE Transactions on Knowledge and Data Engineering*, **2012**, 24, 2052-2064	4.2	104
321	Image Set-Based Collaborative Representation for Face Recognition. *IEEE Transactions on Information Forensics and Security*, **2014**, 9, 1120-1132	8	100
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315	Wrist pulse signal diagnosis using modified Gaussian models and Fuzzy C-Means classification. *Medical Engineering and Physics*, **2009**, 31, 1283-9	2.4	95
314	Sparse Variation Dictionary Learning for Face Recognition with a Single Training Sample per Person **2013**,		94
313	Cross-Domain Visual Matching via Generalized Similarity Measure and Feature Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1089-1102	13.3	93
312	RFSIM: A feature based image quality assessment metric using Riesz transforms **2010**,		93
311	Metasample-based sparse representation for tumor classification. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2011**, 8, 1273-82	3	91
310	A comprehensive evaluation of full reference image quality assessment algorithms **2012**,		90
309	Robust Online Matrix Factorization for Dynamic Background Subtraction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 1726-1740	13.3	89
308	Collaborative neighbor representation based classification using l2-minimization approach. *Pattern Recognition Letters*, **2013**, 34, 201-208	4.7	89
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304	Studies on Hyperspectral Face Recognition in Visible Spectrum With Feature Band Selection. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2010**, 40, 1354-1361		87
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302	A Unified Framework for Representation-Based Subspace Clustering of Out-of-Sample and Large-Scale Data. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 2499-2512	10.3	83
301	Active Self-Paced Learning for Cost-Effective and Progressive Face Identification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 7-19	13.3	82

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299	High resolution partial fingerprint alignment using pore–valley descriptors. *Pattern Recognition*, **2010**, 43, 1050-1061	7.7	80
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292	External Patch Prior Guided Internal Clustering for Image Denoising **2015**,		76
291	Monogenic Binary Coding: An Efficient Local Feature Extraction Approach to Face Recognition. *IEEE Transactions on Information Forensics and Security*, **2012**, 7, 1738-1751	8	76
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288	Gradient histogram estimation and preservation for texture enhanced image denoising. *IEEE Transactions on Image Processing*, **2014**, 23, 2459-72	8.7	75
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281	Log-Euclidean Kernels for Sparse Representation and Dictionary Learning **2013**,		71
280	End-to-End Photo-Sketch Generation via Fully Convolutional Representation Learning **2015**,		69
279	External Prior Guided Internal Prior Learning for Real-World Noisy Image Denoising. *IEEE Transactions on Image Processing*, **2018**,	8.7	69
278	Finger-Knuckle-Print Verification Based on Band-Limited Phase-Only Correlation. *Lecture Notes in Computer Science*, **2009**, 141-148	0.9	69
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260	**2012**,		49
259	From classifiers to discriminators: A nearest neighbor rule induced discriminant analysis. *Pattern Recognition*, **2011**, 44, 1387-1402	7.7	49
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252	A Hybrid l1-l0 Layer Decomposition Model for Tone Mapping **2018**,		46
251	Full-space local topology extraction for cross-modal retrieval. *IEEE Transactions on Image Processing* , **2015**, 24, 2212-24	8.7	45
250	Image segmentation by iterated region merging with localized graph cuts. *Pattern Recognition*, **2011**, 44, 2527-2538	7.7	45
249	Learning Support Correlation Filters for Visual Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1158-1172	13.3	44
248	Direct Pore Matching for Fingerprint Recognition. *Lecture Notes in Computer Science*, **2009**, 597-606	0.9	43
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246	Group MAD Competition? A New Methodology to Compare Objective Image Quality Models **2016**,		42
245	Rotation invariant texture classification using adaptive LBP with directional statistical features **2010**,		41
244	Tumor classification based on non-negative matrix factorization using gene expression data. *IEEE Transactions on Nanobioscience*, **2011**, 10, 86-93	3.4	39
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240	Learning Converged Propagations with Deep Prior Ensemble for Image Enhancement. *IEEE Transactions on Image Processing*, **2018**,	8.7	38
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237	Non-Shift Edge Based Ratio (NSER): An Image Quality Assessment Metric Based on Early Vision Features. *IEEE Signal Processing Letters*, **2011**, 18, 315-318	3.2	35
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204	Towards effective codebookless model for image classification. *Pattern Recognition*, **2016**, 59, 63-71	7.7	23
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