

CITATION REPORT

List of articles citing

From heuristic optimization to dictionary learning: a review and comprehensive comparison of image denoising algorithms

DOI: 10.1109/tcyb.2013.2278548

IEEE Transactions on Cybernetics, 2014, 44, 1001-13.

Source: <https://exaly.com/paper-pdf/59718634/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
424	CALMOS: A Computer Aided Layout Program for MOS-LSI. 1976,		
423	Russia's Space Program. 1995, 32, 18-35		2
422	IEEE Power Electronics Society publication information. 1995, 10, c2-c2		
421	Fast, flexible syntactic pattern matching and processing.		14
420	Analysis Techniques for Racecar Data Acquisition. 2008,		12
419	A 5-Gbps opto-electrical receiver with on-chip photodetector in 0.18- μ m CMOS. 2009,		1
418	Scaling, Subthreshold, and Leakage Current Matching Characteristics in HighTemperature (25C250C) VLSI CMOS Devices. 2009,		
417	Session 11: Secure technologies. 2011,		
416	Impact of mismatch losses arising in crystalline and amorphous silicon PV modules-An Indian experience. 2011,		1
415	Research on situation education of classroom teaching pattern in local college. 2012,		
414	Robust 3D face landmark localization based on local coordinate coding. 2014, 23, 5108-22		18
413	A non-convex gradient fidelity-based variational model for image contrast enhancement. 2014, 2014,		2
412	Compressed sensing by collaborative reconstruction on overcomplete dictionary. 2014, 103, 92-102		14
411	Bayer patterned high dynamic range image reconstruction using adaptive weighting function. 2014 , 2014,		2
410	Natural image denoising using evolved local adaptive filters. 2014, 103, 36-44		23
409	Dual-tree complex wavelet transform and SVD based medical image resolution enhancement. 2014 , 105, 430-437		25
408	Increasing the image resolution using multi-windows spline-type spaces. 2014, 103, 195-200		2

407	A nonmonotone adaptive projected gradient method for primal-dual total variation image restoration. 2014 , 103, 242-249	8
406	A Majorize-Minimize Memory Gradient method for complex-valued inverse problems. 2014 , 103, 285-295	21
405	Fast scale space image decomposition. 2015 ,	
404	Adaptive Switching Non-local Filter for the Restoration of Salt and Pepper Impulse-Corrupted Digital Images. 2015 , 40, 3233-3246	10
403	Dual-Domain Filtering. 2015 , 8, 1396-1420	15
402	A new image denoising algorithm with multiscale products. 2015 ,	
401	Performance Improvement of Average Based Spatial Filters through Multilevel Preprocessing using Wavelets. 2015 , 22, 1698-1702	2
400	Image Search Reranking With Hierarchical Topic Awareness. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2177-89	10.2 7
399	PMPA: A patch-based multiscale products algorithm for image denoising. 2015 ,	11
398	Nonnegative Multiresolution Representation-Based Texture Image Classification. 2015 , 7, 1-21	22
397	Non-distortion-specific no-reference image quality assessment: A survey. 2015 , 301, 141-160	67
396	Mining Spatial-Temporal Patterns and Structural Sparsity for Human Motion Data Denoising. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2693-706	10.2 30
395	Visual data denoising with a unified Schatten-p norm and ℓ_1 norm regularized principal component pursuit. 2015 , 48, 3135-3144	29
394	Dual-sparsity regularized sparse representation for single image super-resolution. 2015 , 298, 257-273	29
393	Color Image Denoising via Discriminatively Learned Iterative Shrinkage. 2015 , 24, 4148-59	15
392	Efficient robust conditional random fields. 2015 , 24, 3124-36	14
391	An iterative enhanced super-resolution system with edge-dominated interpolation and adaptive enhancements. 2015 , 2015,	2
390	. 2015 , 3, 490-530	615

389	Adaptive image denoising by targeted databases. 2015 , 24, 2167-81		60
388	A fuzzy approach to performance measurement of grayscale image denoising algorithms. 2015 ,		
387	Recent advances in 3D SEM surface reconstruction. 2015 , 78, 54-66		66
386	Transfer learning for visual categorization: a survey. 2015 , 26, 1019-34		392
385	Depth map super-resolution using stereo-vision-assisted model. 2015 , 149, 1396-1406		14
384	Nonconvex compressed sensing by nature-inspired optimization algorithms. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1028-39	10.2	16
383	Robust Natural Image Denoising in Wavelet Domain using Hidden Markov Models. 2016 , 8,		3
382	Vehicle 3-dimension measurement by monocular camera based on license plate. 2016 ,		3
381	Weighting Wiener and total variation for image denoising. 2016 ,		1
380	Image Restoration Using Adaptive Region-Wise p-Norm Filter with Local Constraints. 2016 , 16, 1650008		
379	PeronaMalik Model with a New Diffusion Coefficient for Image Denoising. 2016 , 16, 1650011		7
378	Patch-Based Video Denoising With Optical Flow Estimation. 2016 , 25, 2573-2586		52
377	. 2016 ,		3
376	Illumination problems in digital images. A statistical point of view. 2016 , 150, 191-213		3
375	Signal-to-noise ratio improvements in laser flow diagnostics using time-resolved image averaging and high dynamic range imaging. 2016 , 57, 1		1
374	An image denoising algorithm for mixed noise combining nonlocal means filter and sparse representation technique. 2016 , 41, 74-86		15
373	Color and grey scale fusion of osseous and vascular information. 2016 , 17, 103-114		14
372	Gaussian Noise Reduction Using Fuzzy Morphological Amoebas. 2016 , 660-671		

371	Atom Decomposition with Adaptive Basis Selection Strategy for Matrix Completion. 2016 , 12, 1-25		5
370	Edge and contrast preserving in total variation image denoising. 2016 , 2016,		6
369	Dark satellite image enhancement using knee transfer function and gamma correction based on DWTSVD. 2016 , 27, 453-476		26
368	No-Reference Image Blur Assessment Based on Discrete Orthogonal Moments. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 39-50	10.2	172
367	Image de-noising using noise ratio estimation, K-means clustering and non-local means-based estimator. 2016 , 54, 370-381		10
366	A new image denoising method using interval-valued intuitionistic fuzzy sets for the removal of impulse noise. 2016 , 121, 81-93		14
365	A robust bi-sparsity model with non-local regularization for mixed noise reduction. 2016 , 354, 101-111		18
364	Quality-aware features-based noise level estimator for block matching and three-dimensional filtering algorithm. 2016 , 25, 013029		2
363	Anisotropic Diffusion Model Based on a New Diffusion Coefficient and Fractional Order Differential for Image Denoising. 2016 , 16, 1650003		2
362	Edge-Aware Filtering with Local Polynomial Approximation and Rectangle-Based Weighting. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2693-2705	10.2	5
361	Adaptive Norm Selection for Regularized Image Restoration and Super-Resolution. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1388-99	10.2	39
360	Nonlocal Joint Regularizations Framework with Application to Image Denoising. 2016 , 35, 2932-2942		10
359	Genetic Learning Particle Swarm Optimization. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2277-2290	10.2	268
358	The Application of Visual Saliency Models in Objective Image Quality Assessment: A Statistical Evaluation. 2016 , 27, 1266-78		80
357	An Efficient SVD-Based Method for Image Denoising. 2016 , 26, 868-880		140
356	A novel face super resolution approach for noisy images using contour feature and standard deviation prior. 2017 , 76, 2467-2493		8
355	Learning Instance Correlation Functions for Multilabel Classification. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 499-510	10.2	26
354	Weighted Joint Sparse Representation for Removing Mixed Noise in Image. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 600-611	10.2	84

353	Joint Dictionary Learning for Multispectral Change Detection. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 884-897	10.2	125
352	Robust Joint Graph Sparse Coding for Unsupervised Spectral Feature Selection. 2017 , 28, 1263-1275		236
351	A new beta differential evolution algorithm for edge preserved colored satellite image enhancement. 2017 , 28, 495-527		22
350	Statistical Hypothesis Detector for Abnormal Event Detection in Crowded Scenes. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3597-3608	10.2	36
349	Perceptually Guided Photo Retargeting. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 566-578	10.2	11
348	Face super resolution based on parent patch prior for VLQ scenarios. 2017 , 76, 10231-10254		7
347	Image denoising for real-time MRI. 2017 , 77, 1340-1352		21
346	Denoising Smooth Signals Using a Bayesian Approach: Application to Altimetry. 2017 , 10, 1278-1289		3
345	Entropy-based bilateral filtering with a new range kernel. 2017 , 137, 223-234		25
344	Dual Way Residue Noise Thresholding along with feature preservation. 2017 , 94, 194-201		9
343	A quantitative method for selecting denoising filters, based on a new edge-sensitive metric. 2017 ,		3
342	Complex impulse noise removal from color images based on super pixel segmentation. 2017 , 48, 54-65		9
341	A generic denoising framework via guided principal component analysis. 2017 , 48, 340-352		5
340	Textural Image Denoising Using Gumbel Random Vectors in Gaussian Noise. 2017 , 17, 1750003		3
339	A Nonmodel Dual-Tree Wavelet Thresholding for Image Denoising Through Noise Variance Optimization Based on Improved Chaotic Drosophila Algorithm. 2017 , 31, 1754015		9
338	Noise reduction by sparse representation in learned dictionaries for application to blind tip reconstruction problem. 2017 , 28, 034008		2
337	Image Denoising Algorithms: From Wavelet Shrinkage to Nonlocal Collaborative Filtering. 2017 , 1-17		9
336	Automating Visual Privacy Protection Using a Smart LED. 2017 ,		16

335	An image denoising method based on nonsubsampling contourlet transform with SQP optimization. 2017,		3
334	A two-stage convolutional sparse prior model for image restoration. 2017, 48, 268-280		11
333	From Multi-Scale Decomposition to Non-Multi-Scale Decomposition Methods: A Comprehensive Survey of Image Fusion Techniques and Its Applications. 2017, 5, 16040-16067		83
332	Joint Image Denoising and Disparity Estimation via Stereo Structure PCA and Noise-Tolerant Cost. 2017, 124, 204-222		10
331	A fractional differential fidelity-based PDE model for image denoising. 2017, 28, 635-647		10
330	Single image dehazing via an improved atmospheric scattering model. 2017, 33, 1613-1625		33
329	Image classification: A hierarchical dictionary learning approach. 2017,		4
328	A robust face hallucination technique based on adaptive learning method. 2017, 76, 16809-16829		5
327	A fast nonlocally centralized sparse representation algorithm for image denoising. 2017, 131, 99-112		31
326	Exploiting Attribute Correlations: A Novel Trace Lasso-Based Weakly Supervised Dictionary Learning Method. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 4497-4508	10.2	20
325	Discriminative Dictionary Learning With Two-Level Low Rank and Group Sparse Decomposition for Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3758-3771	10.2	29
324	Image denoising based on sparse representation and gradient histogram. 2017, 11, 54-63		13
323	No-Reference Image Quality Assessment Using Image Statistics and Robust Feature Descriptors. 2017, 24, 1656-1660		21
322	Image Denoising with a Low-Rank Preprocessing before BM3D. 2017,		
321	An Adaptive Weighted HOSVD Denoising Method. 2017,		0
320	Correlation preserving on graphs for image denoising. 2017,		
319	Foveated nonlocal dual denoising. 2017,		2
318	A review and comprehensive comparison of image de-noising techniques. 2017,		0

317	Light field denoising by sparse 5D transform domain collaborative filtering. 2017 ,	25
316	Detection of Gaussian noise and its level using deep convolutional neural network. 2017 ,	9
315	Blob Reconstruction Using Unilateral Second Order Gaussian Kernels with Application to High-ISO Long-Exposure Image Denoising. 2017 ,	4
314	Performance Evaluation of Non-Local Means (NLM) Algorithms for Grayscale Image Denoising. 2017 ,	0
313	Multilevel Thresholding Method Based on Electromagnetism for Accurate Brain MRI Segmentation to Detect White Matter, Gray Matter, and CSF. 2017 , 2017, 6783209	19
312	A Denoising Method for Randomly Clustered Noise in ICCD Sensing Images Based on Hypergraph Cut and Down Sampling. 2017 , 17,	3
311	A hypergraph-cut based denoising algorithm for ICCD image. 2017 ,	
310	Laplacian sparse dictionary learning for image classification based on sparse representation. 2017 , 18, 1795-1805	3
309	A Denoising Scheme for Randomly Clustered Noise Removal in ICCD Sensing Image. 2017 , 17,	7
308	Comparative study of noise and digital filters for image processing. 2017 ,	0
307	Nonlocal image denoising via adaptive tensor nuclear norm minimization. 2018 , 29, 3-19	12
306	Edge-Aware Spatial Denoising Filtering Based on a Psychological Model of Stimulus Similarity. 2018 , 6, 3433-3447	1
305	Denoising Very High Resolution Optical Remote Sensing Images: Application and Optimization of Nonlocal Bayes method. 2018 , 11, 691-700	4
304	Signal separation from X-ray image sequence using singular value decomposition. 2018 , 42, 210-215	2
303	A New 4-D Nonlocal Transform-Domain Filter for 3-D Magnetic Resonance Images Denoising. 2018 , 37, 941-954	13
302	Detail-Preserving Image Denoising via Adaptive Clustering and Progressive PCA Thresholding. 2018 , 6, 6303-6315	26
301	Algorithm and Constraints for Exact Non-blind Deconvolution. 2018 , 60, 692-706	
300	A review of sparsity-based clustering methods. 2018 , 148, 20-30	15

299	Performance evaluation of image denoising developed using convolutional denoising autoencoders in chest radiography. 2018 , 884, 97-104		25
298	Two-dimensional gray scale image denoising via morphological operations in NSST domain & bitonic filtering. 2018 , 82, 158-175		17
297	. 2018 , 28, 392-401		8
296	Edge-Preserving Depth Map Upsampling by Joint Trilateral Filter. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 371-384	10.2	28
295	Harmonious Genetic Clustering. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 199-214	10.2	16
294	Fast and Accurate Poisson Denoising With Trainable Nonlinear Diffusion. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1708-1719	10.2	10
293	Mixed Noise Removal via Robust Constrained Sparse Representation. 2018 , 28, 2177-2189		16
292	Robust single image super resolution using neighbor embedding and fusion in wavelet domain. 2018 , 70, 674-689		5
291	Restoration of hyperspectral image contaminated by Poisson noise using spectral unmixing. 2018 , 275, 430-437		8
290	Efficient hybrid image denoising scheme based on SVM classification. 2018 , 157, 503-511		17
289	A deep cascade of neural networks for image inpainting, deblurring and denoising. 2018 , 77, 29589-29604		8
288	Denoising Hyperspectral Image With Non-i.i.d. Noise Structure. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1054-1066	10.2	90
287	NOISE-AIDED EDGE-PRESERVING IMAGE DENOISING USING NON-LOCAL MEANS WITH STOCHASTIC RESONANCE. 2018 ,		2
286	Sure-Based Dual Domain Image Denoising. 2018 ,		
285	Video denoising algorithm based on improved dual-domain filtering and 3D block matching. 2018 , 12, 2250-2257		3
284	Low-complexity image denoising based on mixture model and simple form of MMSE estimation. 2018 , 16, 1850052		2
283	Applications Research of Improved Genetic Algorithm in Image Denoising. 2018 , 1087, 022032		0
282	Image denoising with morphology- and size-adaptive block-matching transform domain filtering. 2018 , 2018,		3

281	. 2018,	1
280	Speckle Noise Reduction of Medical Imaging via Logistic Density in Redundant Wavelet Domain. 2018, 27, 1850006	1
279	Mathematical Methods and Algorithms for Improving Near-Infrared Tunable Diode-Laser Absorption Spectroscopy. 2018, 18,	12
278	Light Field Denoising via Anisotropic Parallax Analysis in a CNN Framework. 2018, 25, 1403-1407	25
277	Inexact Proximal Operators for ℓ_p -Quasinorm Minimization. 2018,	
276	Multimodal Image Denoising Based on Coupled Dictionary Learning. 2018,	3
275	A three stage integrated denoising approach for grey scale images. 2018, 1	4
274	Image Denoising Using Fractal Hierarchical Classification. 2018, 631-645	
273	Feed Development for Multispot Beam Antennas. 2018,	
272	Braille Hand Glove A better way of Communication. 2018,	
271	Evaluation of the strength characteristics of biodegradable polymer structures fabricated by a 3D printer using different nozzle scan patterns. 2018,	0
270	Negative Bias Temperature Instability Benefits on Power Reduction Techniques. 2018,	1
269	. 2018,	
268	Performance Analysis of Relay Selection Algorithm for Video Transmission in Cooperative Ad Hoc Networks. 2018,	
267	The Hydroxyapatite-Based Nanocomposites for Local Drug Delivery. 2018,	
266	Image ProcessingBased Classification of Asphalt Pavement Cracks Using Support Vector Machine Optimized by Artificial Bee Colony. 2018, 32, 04018037	57
265	Brillouin optical time domain analyzer sensors assisted by advanced image denoising techniques. 2018, 26, 5126-5139	36
264	Optimized Filtering With Binary Descriptor for Blind Image Quality Assessment. 2018, 6, 42917-42929	6

263	On the Accuracy of Denoising Algorithms in Medical Imaging: A Case Study. 2018,	
262	Random-valued impulse noise removal using non-local search for similar structures and sparse representation. 2018,	1
261	Learning a discriminative dictionary for classification with outliers. 2018, 152, 255-264	2
260	Time-resolved 2D concentration maps in flowing suspensions using X-ray. 2018, 62, 955-974	19
259	Clustering-based natural image denoising using dictionary learning approach in wavelet domain. 2019, 23, 8013-8027	14
258	An OpenCL-Based Acceleration for Canny Algorithm Using a Heterogeneous CPU-FPGA Platform. 2019,	1
257	Strip the Stripes: Artifact Detection and Removal for Scanning Electron Microscopy Imaging. 2019,	3
256	Hyperparameter optimization in black-box image processing using differentiable proxies. 2019, 38, 1-14	12
255	Study on Image De-Noising and Technique. 2019,	1
254	Automated Pipeline for Photovoltaic Module Electroluminescence Image Processing and Degradation Feature Classification. 2019, 9, 1324-1335	25
253	. 2019,	
252	Single-cell RNA-seq denoising using a deep count autoencoder. 2019, 10, 390	314
251	Total curvature (TC) model and its alternating direction method of multipliers algorithm for noise removal. 2019, 15, 217-223	1
250	A New Ultrasound Speckle Reduction Algorithm Based on Superpixel Segmentation and Detail Compensation. 2019, 9, 1693	3
249	An efficient image denoising method based on principal component analysis with learned patch groups. 2019, 13, 1405-1412	9
248	An Adaptive SVD based De-Noising Filtering Scheme for parallel MRI. 2019,	
247	A mixed noise removal algorithm based on multi-fidelity modeling with nonsmooth and nonconvex regularization. 2019, 78, 23117-23140	2
246	Unsupervised Dictionary Learning for Signal-to-Noise Ratio Enhancement of Array Data. 2019, 90, 573-580	13

- 245 Color Image and Multispectral Image Denoising Using Block Diagonal Representation. **2019**, 28, 4247-4259 17
- 244 Noise Removal Through the Exploration of Subjective and Apparent Denoised Patches Using Discrete Wavelet Transform. **2019**, 1-10 5
- 243 Image Denoising Algorithm Based on Adaptive Singular Value Threshold. **2019**,
- 242 [Copyright notice]. **2019**,
- 241 Optimal Transport for Mobile Crowd Sensing Participants. **2019**, 0
- 240 Attracting Law Based Discrete Multi-Periodic Repetitive Control. **2019**,
- 239 FaultSight: A Fault Analysis Tool for HPC Researchers. **2019**,
- 238 Multi-physics Field Analysis of Traction PMSM for Shunting Locomotive. **2019**, 0
- 237 IPv6 Neighbor Discovery with Multi-hop Communication for IP-Based Vehicular Networks. **2019**,
- 236 Study of the energy consumption of graphical interfaces on TFT displays. **2019**, 1
- 235 Reviewers. **2019**,
- 234 Halcon-Based Solar Panel Crack Detection. **2019**,
- 233 A Miniaturized Wideband Implantable Antenna for Telemetry Applications. **2019**, 1
- 232 Inter-comparison Characterization of Nitrous Acid Measurements by IBBCEAS and LOPAP. **2019**,
- 231 Optical sectioning microscopy with both mechanical and non-mechanical beam scanning mechanisms. **2019**, 0
- 230 State of Charge Estimation of Lithium-ion Battery Considering Aging Degree and External Factors Based on Gradient Boosting Regression Tree. **2019**,
- 229 A SIMULATION OF SOCIAL EVOLUTION. **2019**,
- 228 Application Of Different Simulated Spectral Data And Machine Learning To Estimate The Chlorophyll A Concentration Of Several Inland Waters. **2019**, 2

227	A Novel Fuzzy Based Technique For Transformer Health Index Computation. 2019,	4
226	Real-time Liquid Pouring Motion Generation: End-to-End Sensorimotor Coordination for Unknown Liquid Dynamics Trained with Deep Neural Networks. 2019,	2
225	Reliable and Low-Latency Routing Mechanism for IoT-based Networks. 2019,	1
224	A Stacking Multi-Learning Ensemble Model for Predicting Near Real Time Energy Consumption Demand of Residential Buildings. 2019,	2
223	Theory of Horizontal Dipole Over a Dielectric-Coated Impedance Surface. 2019,	
222	Research Opportunities Regarding Tree and Network Productstructure Representations in a Semiconductor Supply Chain. 2019,	
221	Keynote Abstracts. 2019,	
220	Additive Model for User Electricity Consumption Behavior Analysis. 2019,	2
219	Extremum-seeking control for combined EGR fraction tracking and constrained pumping-loss minimization in Diesel engines. 2019,	
218	Welcome Messages. 2019,	
217	. 2019,	1
216	Algorithm for handover decision in IEEE 802.11 WLAN Environment based on Fuzzy Logic. 2019,	3
215	1-aminopyrene-modified epitaxial graphene device for pH sensors. 2019,	
214	Reinforcement Learning in Card Game Environments Using Monte Carlo Methods and Artificial Neural Networks. 2019,	0
213	Optimal Computing Budget Allocation for Binary Classification with Noisy Labels and its Applications on Simulation Analytics. 2019,	1
212	Properties of platforms for the transformation and automation of business processes. 2019,	0
211	The Case for Robust Adaptation: Autonomic Resource Management is a Vulnerability. 2019,	
210	Reading Meter Numbers in the Wild. 2019,	3

209	. 2019 ,	1
208	An Investigation into the Effectiveness of the Directed Search Method for Optimal Generating Equipment Maintenance by EENS Criteria. 2019 ,	1
207	AESS Senior Members Elevated in 2019. 2019 , 34, 32-32	1
206	Device Authentication Schemes in IoT: A Review. 2019 ,	2
205	Application of Improved Long-short-term Memory Network in Human Morphology Detection. 2019 ,	
204	Single Image Dehazing Using Sky Adaptive Fusion. 2019 ,	1
203	State of Charge Estimation for Lithium-Ion Batteries Based on NARX Neural Network and UKF. 2019 ,	3
202	Proof of Concept for Three-Phase Extension of a Mains Frequency Estimation Algorithm. 2019 ,	0
201	ISSCC 2019 Session 27 Overview: Energy Harvesting & DC/DC Control Techniques. 2019 ,	
200	Multiple Aerial Imaging by Use of Infinity Mirror and Oblique Retro-Reflector. 2019 ,	
199	Liberal Arts Engineering Education: Reflecting on the Past and Envisioning the Future. 2019 ,	
198	Visual Odometry Offloading in Internet of Vehicles with Compression at the Edge of the Network. 2019 ,	7
197	Research on optimal self-scheduling horizon for the wind power and large-scale CAES combined system. 2019 , 13, 5197-5206	4
196	Erratum. 2019 , 25, 225-225	
195	. 2019 ,	
194	Outdoor Performance of Micro-CPV and PV Systems in Different Locations. 2019 ,	
193	Influence Maximization Problem in Social Networks: An Overview. 2019 ,	3
192	A Deep Learning Approach to Detect Drowsy Drivers in Real Time. 2019 ,	2

191	Acceleration Sensitivity Analysis of Hydrophone. 2019,	
190	Author index. 2019,	
189	An Iterative Horizon-Splitting Method for Model Predictive Control. 2019,	1
188	FPGA-Based Optimized Convolutional Neural Network Framework for Handwritten Digit Recognition. 2019,	2
187	Investigation Cross-Correlation Property of Saw Tags for Identification Systems. 2019,	0
186	Crisscross Optimization Algorithm for the Designing of Quadrature Mirror Filter Bank. 2019,	1
185	Design of 6T SRAM Cell Using Optimized 20 nm SOI Junctionless Transistor. 2019,	1
184	Numerical Calculation of Partial Differential Equation Deduction in Adaptive Total Variation Image Denoising. 2019,	1
183	On the Performance of Slotted Vector-Disjunctive Channel. 2019,	1
182	Ransomware Prediction Using Supervised Learning Algorithms. 2019,	5
181	Efficient Method for Interleaver Parameter Estimation in a Fading Channel. 2019,	1
180	A Model-Free PI/PID Controller based on Direct Synthesis Approach to achieve Disturbance Rejection. 2019,	2
179	. 2019,	0
178	Interfacial Microstructure Evolution for Cu/Cu ₃ Sn/Cu Solder Joints during Ultrasonic-Assisted TLP Soldering Process. 2019,	
177	Simulation and Optimization of Large Aircraft Landing Gear System based on AMESim and Python Script. 2019,	0
176	Channel Estimation for Hybrid Multi-Carrier mmWave MIMO Systems Using 3-D Unitary Tensor-ESPRIT in DFT beamspace. 2019,	1
175	EM Pulse Propagation Modeling of Tunnels with Three-dimensional TDPE Method. 2019,	
174	Electrical Machines for Transportation. 2019,	

173	Novel types of mode dispersion of optical vortices in twisted optical fibers. 2019,	
172	Efficient OpenCL Accelerators for Canny Edge Detection Algorithm on a CPU-FPGA Platform. 2019,	0
171	Method of parameters collaborative learning of multiple CAN node for industrial robots. 2019,	
170	Modified RLS Algorithm for Interference Cancelation in a MIMO System. 2019,	
169	[Copyright notice]. 2019,	
168	Fine-grained Adversarial Image Inpainting with Super Resolution. 2019,	3
167	. 2019,	5
166	Quantum Interference and Entanglement Effects in Hybrid Three-Terminal Splitters. 2019,	
165	Calculation and Analysis of the Impact of Ground Potential Rise on 10kV Lightning Arrester. 2019,	
164	Development of Mobile Power Complex Model on Renewable Energy Sources for Autonomous Electrical Supply of Russian Far Eastern Region. 2019,	3
163	Extract Row-Structure Parameters of the Maize From UAV Imageries. 2019,	
162	Design of Delayed Output Feedback of Linear Time-Varying Systems With Applications to Spacecraft Magnetic Attitude Control. 2019,	
161	Polsar Image Classification Based on Polarimetric Scattering Coding and Sparse Support Matrix Machine. 2019,	1
160	. 2019,	2
159	Improving Performance of Multi-Area State Estimation Using Spectral Clustering. 2019,	
158	Modification of Wettability Property of NITI Alloy by Laser Texturing and Carbon Ion Implantation. 2019,	1
157	Blood Vessel Segmentation in Fundus Images Based on Improved Loss Function. 2019,	3
156	Application of Fuzzy Neural Network PID Algorithm in Oil Pump Control. 2019,	2

155	Role of FPGA in Internet of Things Applications. 2019,	2
154	Path-following algorithms comparison using Software-in-the-Loop simulations for UAVs. 2019,	1
153	Data Deduplication with Encrypted Big Data Management in Cloud Computing. 2019,	1
152	Increase of Electromagnetic Compatibility of the Rotary Type Electromagnetic Separator with Semiconductor Current Regulators. 2019,	
151	Minimal Discrepancy Placement of Sniffers and Calibrators for Wireless Indoor Localization. 2019,	0
150	A Blockchain-Based Hierarchical Reputation Management Scheme in Vehicular Network. 2019,	7
149	Circularly polarized two-element array for DSRC Application. 2019,	
148	. 2019,	
147	Impact of ART and DPC on AODV Routing Environment for Dynamic Network using QualNet 7.1. 2019,	
146	Human Cardiac Tissue Collagen Polarity Revealed Using Polarimetric Second-Harmonic Generation Microscopy. 2019,	
145	Workshops. 2019,	
144	Face Recognition: PCA vs. l1 Minimization. 2019,	
143	Consensus building for interval MAGDM problems based on integer programming models. 2019,	
142	Crack Identification Algorithm Based on MASK Dodging Principle and Deep Learning. 2019,	
141	A method for measuring film thickness of water lubricated tilting pad thrust bearings. 2019,	
140	A Model Reference Adaptive Controller With Feedforward Decoupling for Active Magnetic Bearing Rotor System. 2019,	1
139	Circulation suppression of synchronous/interleaving paralleled 400Hz three-phase four-leg inverter based on third harmonics injection. 2019, 12, 3624-3634	
138	Achievement of Online Agile Manipulation Task for Aerial Transformable Multilink Robot. 2019,	2

137	CRNN Based Jersey-Bib Number/Text Recognition in Sports and Marathon Images. 2019 ,		8
136	. 2019 ,		48
135	Siamese Deep Dictionary Learning. 2019 ,		
134	Weighted Tensor Rank-1 Decomposition for Nonlocal Image Denoising. 2018 ,		16
133	Quaternion-based weighted nuclear norm minimization for color image denoising. 2019 , 332, 283-297		13
132	Rain Removal in Traffic Surveillance: Does it Matter?. 2019 , 20, 2802-2819		21
131	No-Reference quality assessment of noisy images with local features and visual saliency models. 2019 , 482, 334-349		9
130	A Blind Stereoscopic Image Quality Evaluator with Segmented Stacked Autoencoders Considering The Whole Visual Perception Route. 2018 ,		32
129	An iterative speckle filtering algorithm for ultrasound images based on bayesian nonlocal means filter model. 2019 , 48, 104-117		14
128	An Adaptive Framework to Tune the Coordinate Systems in Nature-Inspired Optimization Algorithms. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1403-1416	10.2	21
127	Blind Noisy Image Quality Assessment Using Sub-Band Kurtosis. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1146-1156	10.2	10
126	Unsupervised feature selection based on joint spectral learning and general sparse regression. 2020 , 32, 6581-6589		2
125	Image denoising with conditional generative adversarial networks (CGAN) in low dose chest images. 2020 , 954, 161914		9
124	Image denoising review: From classical to state-of-the-art approaches. 2020 , 55, 220-244		87
123	Synergistic Generic Learning for Face Recognition From a Contaminated Single Sample per Person. 2020 , 15, 195-209		11
122	IENet: Internal and External Patch Matching ConvNet for Web Image Guided Denoising. 2020 , 30, 3928-3942		6
121	Phase asymmetry ultrasound despeckling with fractional anisotropic diffusion and total variation. 2019 ,		9
120	Dictionary Learning-Based fMRI Data Analysis for Capturing Common and Individual Neural Activation Maps. 2020 , 14, 1265-1279		2

119	2020 Index IEEE Reviews in Biomedical Engineering Vol. 13. 2020 , 13, 369-374	
118	Stochastic Recursive Gradient Support Pursuit and Its Sparse Representation Applications. 2020 , 20,	
117	Towards to Optimal Wavelet Denoising Scheme-A Novel Spatial and Volumetric Mapping of Wavelet-Based Biomedical Data Smoothing. 2020 , 20,	3
116	Intrascale windowing-based cuckoo search optimized sub-band thresholding for satellite image denoising. 2020 , 13, 1	1
115	An improved method for image denoising based on fractional-order integration. 2020 , 21, 1485-1493	6
114	High-ISO Long-Exposure Image Denoising Based on Quantitative Blob Characterization. 2020 ,	1
113	An image denoising iterative approach based on total variation and weighting function. 2020 , 79, 20947-20971	3
112	An Automated Crop and Plant Disease Identification Scheme Using Cognitive Fuzzy C-Means Algorithm. 2020 , 1-12	2
111	End-to-end image analysis pipeline for liquid-phase electron microscopy. 2020 , 279, 242-248	3
110	Analyses of the coupling model combining field and circuit equations based on solenoidal coils for wireless power transfer. 2020 , 13, 873-880	
109	A High Gain Multiport DCDC Converter for Integrating Energy Storage Devices to DC Microgrid. 2020 , 35, 10501-10514	23
108	A ROI-guided deep architecture for robust facial expressions recognition. 2020 , 522, 35-48	10
107	Service Function Chaining in 5G & Beyond Networks: Challenges and Open Research Issues. 2020 , 34, 320-327	9
106	. 2020 ,	3
105	. 2020 , 108, 485-532	158
104	Thermal analysis and derating of a power transformer with harmonic loads. 2020 , 14, 1233-1241	5
103	Deep Learning-Based Object Detection Improvement for Tomato Disease. 2020 , 8, 56607-56614	45
102	Robust Stability Analysis of an Uncertain Aircraft Model with Scalar Parametric Uncertainty. 2020 ,	

101	. 2020 , 8, 50010-50021	5
100	Real-Time Light Field Denoising Using a Novel Linear 4-D Hyperfan Filter. 2020 , 67, 2693-2706	7
99	Online Research on Reliability of Thermal-Vibration Coupling for PLC Optical Splitters. 2020 , 20, 351-357	0
98	Topological Signal Processing Over Simplicial Complexes. 2020 , 68, 2992-3007	35
97	. 2020 , 5, 519-527	1
96	Image Smear Removal via Improved Conditional GAN and Semantic Network. 2020 , 8, 113104-113111	1
95	Privacy-Preserving Stochastic Gradual Learning. 2020 , 1-1	1
94	Gain, Loss and the Shot-Noise Rule. 2020 , 38, 2158-2170	1
93	A New Approach to Parallel Processing. 2020 , 8, 30287-30305	2
92	Lightweight Privacy-preserving Raw Data Publishing Scheme. 2020 , 1-1	18
91	A Weighted Fidelity and Regularization-Based Method for Mixed or Unknown Noise Removal from Images on Graphs. 2020 ,	16
90	Numerical Evaluation of Job Finish Time Under MTD Environment. 2020 , 8, 11437-11446	3
89	Stability of Spin Torque Oscillators for MAMR: Perspectives of Materials and Design. 2020 , 56, 1-5	
88	Evaluation of Electromagnetic Launcher Contact Resistance Using a Design of Experiments Approach. 2020 , 48, 571-575	3
87	Influence of vulcanization factors on UV-A resistance of silicone rubber for outdoor insulators. 2020 , 27, 296-304	5
86	Neural Stance Detection With Hierarchical Linguistic Representations. 2020 , 28, 635-645	1
85	High Quality Light Field Extraction and Post-Processing for Raw Plenoptic Data. 2020 ,	5
84	Min-Max Metric for Spectrally Compatible Waveform Design Via Log-Exponential Smoothing. 2020 , 68, 1075-1090	17

83	. 2020 , 8, 32947-32956	0
82	Cognitive Dwell Time Allocation for Distributed Radar Sensor Networks Tracking via Cone Programming. 2020 , 20, 5092-5101	6
81	AMACS: Automated Mobile Application Content Sensing. 2020 , 7, 275-284	0
80	Magnetic Field Optimization of an In-Vacuum Undulator at NSLS-II Transactions on Applied Superconductivity. 2020 , 30, 1-4	
79	Automatic Image Recommendation for Economic Topics using Visual and Semantic Information. 2020 ,	1
78	Group-Bipartite Consensus in the Networks With Cooperative-Competitive Interactions. 2020 , 67, 3292-3296	9
77	Calculation of the Electric Field Voltage Effective Values on the Cell Elements under Pulse Action. 2020 ,	
76	Speckle denoising techniques in imaging systems. 2020 , 22, 063001	11
75	Synchronverters with Bounded Frequency and Voltage. 2020 , 187-202	
74	Improving Chaotic Image Encryption Using Maps with Small Lyapunov Exponents. 2020 ,	
73	. 2020 ,	0
72	Sim-to-Real: Employing ultrasonic guided wave digital surrogates and transfer learning for damage visualization. 2021 , 111, 106338	7
71	NOise reduction with DIstribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing. 2021 , 226, 117539	10
70	A Self-Supervised Denoising Network for Satellite-Airborne-Ground Hyperspectral Imagery. 2021 , 1-16	4
69	Image denoising based on BCOLTA: Dataset and study. 2021 , 15, 624-633	
68	Models for Multiplicative Noise Removal. 2021 , 1-34	
67	Real-Time Light Field Signal Processing Using 4D/5D Linear Digital Filter FPGA Circuits. 2021 , 1-1	2
66	An Unsupervised Multi-Shot Person Re-Identification Method via Mutual Normalized Sparse Representation and Stepwise Learning. 2021 , 1-15	1

65	A novel denoising algorithm for medical images based on the non-convex non-local similar adaptive regularization. 2021 , 15, 1702-1711	0
64	A Generative Adversarial Network-Based Image Denoiser Controlling Heterogeneous Losses. 2021 , 21,	2
63	A region fusion based split Bregman method for TV Denoising algorithm. 2021 , 80, 15875-15900	1
62	Calcium imaging analysis - how far have we come?. 2021 , 10, 258	
61	Deep learning in electron microscopy. 2021 , 2, 011004	14
60	A deeper look into natural sciences with physics-based and data-driven measures. 2021 , 24, 102171	2
59	Mixed Noise Removal by Bilateral Weighted Sparse Representation. 2021 , 40, 4490-4515	0
58	Hyperspectral Image Denoising via Clustering-Based Latent Variable in Variational Bayesian Framework. 2021 , 59, 3266-3276	4
57	Blind Denoising of Fluorescence Microscopy Images Using GAN-Based Global Noise Modeling. 2021 ,	0
56	Dirty Pixels: Towards End-to-end Image Processing and Perception. 2021 , 40, 1-15	5
55	Differentiable Compound Optics and Processing Pipeline Optimization for End-to-end Camera Design. 2021 , 40, 1-19	11
54	An Efficient Combined Approach For Denoising Fibrous Dysplasia Images. 2021 ,	1
53	Calcium imaging analysis how far have we come?. 2021 , 10, 258	0
52	Significance Support Vector Regression for Image Denoising. 2021 , 23,	
51	Implementation of Fuzzy C-Means (FCM) Clustering Based Camouflage Image Generation Algorithm. 2021 , 9, 120203-120209	0
50	A Comparative Analysis of Image Denoising Problem: Noise Models, Denoising Filters and Applications. 2021 , 49-66	4
49	Depth Map Denoising via CDT-Based Joint Bilateral Filter. 2014 , 65-89	1
48	A Modified NCSR Algorithm for Image Denoising. 2017 , 377-386	0

47	Image Denoising Using Generative Adversarial Network. 2020 , 73-90	1
46	ResDNN: deep residual learning for natural image denoising. 2020 , 14, 2425-2434	3
45	Multi-scale patches based image denoising using weighted nuclear norm minimisation. 2020 , 14, 3161-3168	0
44	Adaptive iterative global image denoising method based on SVD. 2020 , 14, 3028-3038	2
43	Single cell RNA-seq denoising using a deep count autoencoder.	16
42	Fast and accurate denoising method applied to very high resolution optical remote sensing images. 2017 ,	4
41	A Survey on the Image Denoising to Enhance Medical Images. 2018 , 15, 501-507	2
40	A New Method for Nonlocal Means Image Denoising Using Multiple Images. <i>PLoS ONE</i> , 2016 , 11, e0158664	8
39	Image and Video Restoration and Enhancement via Sparse Representation. 2016 , 1-28	2
38	Image and Video Restoration and Enhancement via Sparse Representation. 2017 , 501-528	3
37	Real-Time Medical Video Denoising with Deep Learning: Application to Angiography. 2018 , 12, 22-28	4
36	. 2016 ,	
35	Random-Valued Impulse Noise Removal Using Non-Local Search for Similar Structures and Sparse Representation. 2017 , E100.A, 2146-2153	
34	A Novel Image Denoising Algorithm Based on Non-subsampled Contourlet Transform and Modified NLM. 2018 , 689-699	
33	Multishot person reidentification using joint group sparse representation. 2018 , 27, 1	2
32	An Image Denoising Algorithm Based on Singular Value Decomposition and Non-local Self-similarity. 2019 , 501-510	1
31	A Mixed Denoising Algorithm Based on Weighted Joint Sparse Representation. 2019 , 23, 313-316	
30	From Videos to URLs: A Multi-Browser Guide to Extract User Behavior with Optical Character Recognition. 2020 , 503-514	

29	NOise Reduction with Distribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing.	0
28	Visual Sentiment Classification via Low-rank Regularization and Label Relaxation. 2021 , 1-1	0
27	Correlative Analysis of Denoising Methods in Spectral Images Embedded with Different Noises. 2020 ,	1
26	A feature-level full-reference image denoising quality assessment method based on joint sparse representation. 1	
25	Countering adversarial attacks on autonomous vehicles using denoising techniques: A Review. 2022 , 1-1	3
24	An efficient method to remove mixed Gaussian and random-valued impulse noise.. <i>PLoS ONE</i> , 2022 , 17, e0264793	3.7 0
23	Robust Adaptive Pulse Compression Under Encode-Decoder Network for Synthetic Aperture Radar. 2021 ,	
22	A Survey of Orthogonal Moments for Image Representation: Theory, Implementation, and Evaluation. <i>ACM Computing Surveys</i> , 2023 , 55, 1-35	13.4 3
21	NISC: Neural Network-Imputation for Single-Cell RNA Sequencing and Cell Type Clustering.. <i>Frontiers in Genetics</i> , 2022 , 13, 847112	4.5 1
20	IR and visible image fusion using DWT and bilateral filter. <i>Microsystem Technologies</i> ,	1.7 0
19	A Threshold Segmentation Algorithm for Sculpture Images Based on Sparse Decomposition. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-8	1.1 1
18	A Non-Parametric Constrained Regression Algorithm for Dual Norm Computation and its Applications.	0
17	SETR-YOLOv5n: A Lightweight Low-Light Lane Curvature Detection Method Based on Fractional-Order Fusion Model. 2022 , 10, 93003-93016	0
16	Hyperspectral Image Denoising with Weighted Nonlocal Low-rank Model and Adaptive Total Variation Regularization. 2022 , 1-1	1
15	Data-driven full-field vibration response estimation from limited measurements in real-time using dictionary learning and compressive sensing. 2023 , 275, 115280	1
14	Neural Photo-Finishing. 2022 , 41, 1-15	0
13	Contrastive blind denoising autoencoder for real time denoising of industrial IoT sensor data. 2023 , 120, 105838	1
12	MLFAN: Multilevel Feature Attention Network With Texture Prior for Image Denoising. 2023 , 11, 34260-34273	0

- 11 A review of image fusion: Methods, applications and performance metrics. **2023**, 137, 104020 ○
- 10 Principal-component Interferometric Modeling (PRIMO), an Algorithm for EHT Data. I. Reconstructing Images from Simulated EHT Observations. **2023**, 943, 144 ○
- 9 Recent progress in image denoising: A training strategy perspective. ○
- 8 A Multi-Branch Training and Parameter-Reconstructed Neural Network for Assessment of Signal-to-Noise Ratio of Optical Remote Sensor on Orbit. **2023**, 13, 2851 ○
- 7 Models for Multiplicative Noise Removal. **2023**, 313-346 ○
- 6 Low-dose measurement of electric potential distribution in organic light-emitting diode by phase-shifting electron holography with 3D tensor decomposition. ○
- 5 Driver identification and fatigue detection algorithm based on deep learning. **2023**, 20, 8162-8189 ○
- 4 An Underwater Target Wake Detection in Multi-Source Images Based on Improved YOLOv5. **2023**, 11, 31990-31996 ○
- 3 BTGP: Enhancing the perceptual recovery of the image compressive sensing using a backtracking greedy pursuit algorithm. **2023**, 35, 101552 ○
- 2 The Image of the M87 Black Hole Reconstructed with PRIMO. **2023**, 947, L7 ○
- 1 Optimized Algorithms and Hardware Implementation of Median Filter for Image Processing. ○