## High-Order Total Variation-Based Image Restoration

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**Citation Report** 

#	Article	IF	CITATIONS
1	Comparison of formulations and solution methods for image restoration problems. Inverse Problems, 2001, 17, 1977-1995.	1.0	17
2	J-substitution algorithm in magnetic resonance electrical impedance tomography (MREIT): phantom experiments for static resistivity images. IEEE Transactions on Medical Imaging, 2002, 21, 695-702.	5.4	108
3	Magnetic resonance electrical impedance tomography (MREIT): phantom experiments for static resistivity images using J-substitution algorithm. , 0, , .		0
4	Reconstruction of conductivity and current density images using only one component of magnetic field measurements. IEEE Transactions on Biomedical Engineering, 2003, 50, 1121-1124.	2.5	177
5	Adaptive singular value decomposition in wavelet domain for image denoising. Pattern Recognition, 2003, 36, 1747-1763.	5.1	82
6	Reconstruction of Wavelet Coefficients Using Total Variation Minimization. SIAM Journal of Scientific Computing, 2003, 24, 1754-1767.	1.3	143
7	Noise removal using fourth-order partial differential equation with applications to medical magnetic resonance images in space and time. IEEE Transactions on Image Processing, 2003, 12, 1579-1590.	6.0	738
8	Edge-preserving and scale-dependent properties of total variation regularization. Inverse Problems, 2003, 19, S165-S187.	1.0	451
9	Conductivity and current density image reconstruction in MREIT using harmonic Bz algorithm and recessed electrodes. , 0, , .		0
10	Total variation information in image recovery. , 0, , .		0
11	Reconstruction of current density distributions in axially symmetric cylindrical sections using one component of magnetic flux density: computer simulation study. Physiological Measurement, 2003, 24, 565-577.	1.2	39
12	Static resistivity image of a cubic saline phantom in magnetic resonance electrical impedance tomography (MREIT). Physiological Measurement, 2003, 24, 579-589.	1.2	47
13	Conductivity and current density image reconstruction using harmonicBzalgorithm in magnetic resonance electrical impedance tomography. Physics in Medicine and Biology, 2003, 48, 3101-3116.	1.6	178
14	Image deconvolution with total variation bounds. , 2003, , .		3
15	Low-curvature image simplifiers: Global regularity of smooth solutions and Laplacian limiting schemes. Communications on Pure and Applied Mathematics, 2004, 57, 764-790.	1.2	48
16	Image Restoration Subject to a Total Variation Constraint. IEEE Transactions on Image Processing, 2004, 13, 1213-1222.	6.0	156
17	Image denoising and detail preservation by probabilistic models. , 0, , .		0
18	Image Denoising Using Robust Regression. IEEE Signal Processing Letters, 2004, 11, 243-246.	2.1	11

#	Article	IF	CITATIONS
19	Noise Removal Using Smoothed Normals and Surface Fitting. IEEE Transactions on Image Processing, 2004, 13, 1345-1357.	6.0	182
20	Singular Integrals, Image Smoothness, and the Recovery of Texture in Image Deblurring. SIAM Journal on Applied Mathematics, 2004, 64, 1749-1774.	0.8	26
21	Traveling Wave Solutions of Fourth Order PDEs for Image Processing. SIAM Journal on Mathematical Analysis, 2004, 36, 38-68.	0.9	75
22	Semi-adaptive, convex optimisation methodology for image denoising. IET Computer Vision, 2005, 152, 553.	1.3	2
23	Adapted Total Variation for Artifact Free Decompression of JPEG Images. Journal of Mathematical Imaging and Vision, 2005, 23, 199-211.	0.8	101
25	Constrained Total Variation Minimization and Application in Computerized Tomography. Lecture Notes in Computer Science, 2005, , 456-472.	1.0	8
26	Nonlinear Diffusion, Negentropy and Restoration of Mammographic Images. , 2005, 2005, 6587-90.		0
27	Total Variation Based Fourier Reconstruction and Regularization for Computer Tomography. , 0, , .		11
28	An Iterative Regularization Method for Total Variation-Based Image Restoration. Multiscale Modeling and Simulation, 2005, 4, 460-489.	0.6	1,477
29	Local diffusion regularization method for optical tomography reconstruction by using robust statistics. Optics Letters, 2005, 30, 2439.	1.7	24
30	Variable Exponent, Linear Growth Functionals in Image Restoration. SIAM Journal on Applied Mathematics, 2006, 66, 1383-1406.	0.8	1,153
31	An Infeasible Primal-Dual Algorithm for Total Bounded Variation–Based Inf-Convolution-Type Image Restoration. SIAM Journal of Scientific Computing, 2006, 28, 1-23.	1.3	122
32	Precise imaging of small animals using a dual-head microPET scanner. , 2006, , .		3
33	X-ray spectrum unfolding using a regularized truncated SVD method. X-Ray Spectrometry, 2006, 35, 63-70.	0.9	20
34	Iterative Image Restoration Combining Total Variation Minimization and a Second-Order Functional. International Journal of Computer Vision, 2006, 66, 5-18.	10.9	253
35	Splines in Higher Order TV Regularization. International Journal of Computer Vision, 2006, 70, 241-255.	10.9	114
36	Image Restoration with Discrete Constrained Total Variation Part I: Fast and Exact Optimization. Journal of Mathematical Imaging and Vision, 2006, 26, 261-276.	0.8	182
37	Variational Methods on the Space of Functions of Bounded Hessian for Convexification and Denoising. Computing (Vienna/New York), 2006, 76, 109-133.	3.2	70

## # ARTICLE

IF CITATIONS

38 A Note on the Dual Treatment of Higher-Order Regularization Functionals. Computing (Vienna/New) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5

39	Evolution-Operator-Based Single-Step Method for Image Processing. International Journal of Biomedical Imaging, 2006, 2006, 1-27.	3.0	15
40	Wavelet-based multiscale level-set curve evolution and adaptive statistical analysis for image denoising. Journal of Electronic Imaging, 2006, 15, 043004.	0.5	1
41	Anisotropic diffusion regularization methods for diffuse optical tomography using edge prior information. Measurement Science and Technology, 2007, 18, 87-95.	1.4	46
42	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac micro T. Medical Physics, 2007, 34, 4476-4483.	1.6	152
43	IMAGE RESTORATION AND DETAIL PRESERVATION BY BAYESIAN ESTIMATION. International Journal of Image and Graphics, 2007, 07, 497-514.	1.2	3
44	Simultaneous Higher-Order Optical Flow Estimation and Decomposition. SIAM Journal of Scientific Computing, 2007, 29, 2283-2304.	1.3	46
45	Fractional-Order Anisotropic Diffusion for Image Denoising. IEEE Transactions on Image Processing, 2007, 16, 2492-2502.	6.0	439
46	Image restoration combining a total variational filter and a fourth-order filter. Journal of Visual Communication and Image Representation, 2007, 18, 322-330.	1.7	169
47	Augmented Lagrangian Homotopy Method for the Regularization of Total Variation Denoising Problems. Journal of Optimization Theory and Applications, 2007, 134, 15-25.	0.8	6
48	Multigrid based total variation image registration. Computing and Visualization in Science, 2008, 11, 101-113.	1.2	38
49	Using nonlinear diffusion and mean shift to detect and connect cross-sections of axons in 3D optical microscopy images. Medical Image Analysis, 2008, 12, 666-675.	7.0	23
50	Staircase effect alleviation by coupling gradient fidelity term. Image and Vision Computing, 2008, 26, 1163-1170.	2.7	32
51	Signal-processing approaches for image-resolution restoration for TOMBO imagery. Applied Optics, 2008, 47, B104.	2.1	21
52	Image Filtering with a Fourth Order Geometry-Driven Flow. , 2009, , .		0
53	Smoothening and Sharpening Effects of Theta in Complex Diffusion for Image Processing. , 2009, , .		6
54	A Lattice Boltzmann Method for Image Denoising. IEEE Transactions on Image Processing, 2009, 18, 2797-2802.	6.0	28
55	A Fast Algorithm for Edge-Preserving Variational Multichannel Image Restoration. SIAM Journal on Imaging Sciences, 2009, 2, 569-592.	1.3	442

#	ARTICLE	IF	CITATIONS
56	A Compound Algorithm of Denoising Using Second-Order and Fourth-Order Partial Differential Equations. Numerical Mathematics, 2009, 2, 353-376.	0.6	29
57	Fast Parameter Estimation in Image Restoration Based on Hierarchical Bayesian Framework. , 2009, , .		0
58	Combined â,,"2 data and gradient fitting in conjunction with â,,"1 regularization. Advances in Computational Mathematics, 2009, 30, 79-99.	0.8	24
59	A dual algorithm for minimization of the LLT model. Advances in Computational Mathematics, 2009, 31, 115-130.	0.8	50
60	Variational denoising of partly textured images. Journal of Visual Communication and Image Representation, 2009, 20, 293-300.	1.7	13
61	An extension of min/max flow framework. Image and Vision Computing, 2009, 27, 342-353.	2.7	2
62	An Improved LOT Model for Image Restoration. Journal of Mathematical Imaging and Vision, 2009, 34, 89-97.	0.8	20
63	Properties of Higher Order Nonlinear Diffusion Filtering. Journal of Mathematical Imaging and Vision, 2009, 35, 208-226.	0.8	77
64	A New Gradient Fidelity Term for Avoiding Staircasing Effect. Journal of Computer Science and Technology, 2009, 24, 1162-1170.	0.9	6
65	Geometric and potential driving formation and evolution of biomolecular surfaces. Journal of Mathematical Biology, 2009, 59, 193-231.	0.8	75
66	Convergence of a fixed point iteration method for the OSV model. Applied Mathematics and Computation, 2009, 215, 1780-1790.	1.4	2
67	An Algorithm for image removals and decompositions without inverse matrices. Journal of Computational and Applied Mathematics, 2009, 225, 428-439.	1.1	5
68	Discrete Total Variation Model with Gradient Fidelity Term for Image Restoration. , 2009, , .		1
69	A Higher Order Model for Image Restoration: The One-Dimensional Case. SIAM Journal on Mathematical Analysis, 2009, 40, 2351-2391.	0.9	33
70	A Self-governing Fourth-order Nonlinear Diffusion Filter for Image Noise Removal. IPSJ Transactions on Computer Vision and Applications, 2010, 2, 94-103.	4.4	21
71	Image restoration with surface-based fourth-order partial differential equation. , 2010, , .		2
72	Adaptive total variation denoising based on difference curvature. Image and Vision Computing, 2010, 28, 298-306.	2.7	159
73	Strong solutions for the generalized Perona–Malik equation for image restoration. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 1077-1084.	0.6	10

#	Article	IF	CITATIONS
74	Reconstruction of 3D dynamic contrastâ€enhanced magnetic resonance imaging using nonlocal means. Journal of Magnetic Resonance Imaging, 2010, 32, 1217-1227.	1.9	40
75	Ramp preserving Perona–Malik model. Signal Processing, 2010, 90, 1963-1975.	2.1	39
76	Wavelet frame based scene reconstruction from range data. Journal of Computational Physics, 2010, 229, 2093-2108.	1.9	13
77	A class of nonlinear parabolic-hyperbolic equations applied to image restoration. Nonlinear Analysis: Real World Applications, 2010, 11, 253-261.	0.9	26
78	Fractional subpixel diffusion and fuzzy logic approach for ultrasound speckle reduction. Pattern Recognition, 2010, 43, 2962-2970.	5.1	35
79	Homogeneity similarity based image denoising. Pattern Recognition, 2010, 43, 4089-4100.	5.1	31
80	An Overview of the Topological Gradient Approach in Image Processing: Advantages and Inconveniences. Journal of Applied Mathematics, 2010, 2010, 1-19.	0.4	2
81	A novel model using Kalman filtering for image restoration. , 2010, , .		1
82	An improved fourth order nonlinear diffusion method for image denoising. , 2010, , .		0
83	The Mathematical Programming Problem of Total Variation Image Denoising Model. , 2010, , .		0
84	A new model for image de-noising of partial differential equation. , 2010, , .		0
85	An edge-preserving fourth order PDE method for image denoising. , 2010, , .		0
86	Research on the total variation regularization algorithm for electrical capacitance tomography. , 2010, , .		0
87	Augmented Lagrangian Method, Dual Methods, and Split Bregman Iteration for ROF, Vectorial TV, and High Order Models. SIAM Journal on Imaging Sciences, 2010, 3, 300-339.	1.3	478
88	Multigrid Algorithm for High Order Denoising. SIAM Journal on Imaging Sciences, 2010, 3, 363-389.	1.3	68
89	On High-Order Denoising Models and Fast Algorithms for Vector-Valued Images. IEEE Transactions on Image Processing, 2010, 19, 1518-1527.	6.0	43
90	Total Generalized Variation. SIAM Journal on Imaging Sciences, 2010, 3, 492-526.	1.3	1,187
91	A variational approach for reconstructing low dose images in clinical helical CT. , 2010, , .		4

#	Article	IF	CITATIONS
92	Wavelet-based image enhancement using fourth order PDE. , 2011, , .		4
93	A second-order extension of TV regularization for image deblurring. , 2011, , .		4
94	Nonparametric Copula Density Estimation in Sensor Networks. , 2011, , .		1
95	Ultrasound Medical Image Speckle Reduction Using Fourth-Order Partial Differential Equation. , 2011, ,		1
96	A Modified TV-Stokes Model for Image Processing. SIAM Journal of Scientific Computing, 2011, 33, 1574-1597.	1.3	18
97	Total Variation as a Local Filter. SIAM Journal on Imaging Sciences, 2011, 4, 651-694.	1.3	64
98	PDE-based noise removal with geometrical mean diffusion of adaptive TV and Gauss curvature-driven diffusion. , 2011, , .		0
99	Graph Cuts for Curvature Based Image Denoising. IEEE Transactions on Image Processing, 2011, 20, 1199-1210.	6.0	48
100	Gradient Profile Prior and Its Applications in Image Super-Resolution and Enhancement. IEEE Transactions on Image Processing, 2011, 20, 1529-1542.	6.0	285
101	Two Enhanced Fourth Order Diffusion Models for Image Denoising. Journal of Mathematical Imaging and Vision, 2011, 40, 188-198.	0.8	40
102	An Anisotropic Fourth-Order Diffusion Filter for Image Noise Removal. International Journal of Computer Vision, 2011, 92, 177-191.	10.9	128
103	Well-posedness for a class of fourth order diffusions for image processing. Nonlinear Differential Equations and Applications, 2011, 18, 407-425.	0.4	10
104	A class of fractional-order multi-scale variational models and alternating projection algorithm for image denoising. Applied Mathematical Modelling, 2011, 35, 2516-2528.	2.2	107
105	Image denoising by a direct variational minimization. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	3
106	Partial differential equation transform—Variational formulation and Fourier analysis. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1996-2020.	1.0	19
107	Adaptive fourth-order partial differential equation filter for image denoising. Applied Mathematics Letters, 2011, 24, 1282-1288.	1.5	47
108	Multiplicity of positive radially symmetric solutions for a quasilinear biharmonic equation in the plane. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1320-1330.	0.6	4
109	Fully fractional anisotropic diffusion for image denoising. Mathematical and Computer Modelling, 2011 54, 729-741	2.0	57

#	Article	IF	CITATIONS
110	A NOVEL NOISE REMOVAL METHOD BASED ON FRACTIONAL ANISOTROPIC DIFFUSION AND SUBPIXEL APPROACH. New Mathematics and Natural Computation, 2011, 07, 173-185.	0.4	6
111	Perceptual Saliency Driven Total Variation for Image Denoising Using Tensor Voting. , 2011, , .		1
112	A Signal Processing Approach to Generalized 1-D Total Variation. IEEE Transactions on Signal Processing, 2011, 59, 5265-5274.	3.2	116
113	Research on Wear Debris Recognition Based on Patch Similarity of Anisotropic Diffusion and BP Neural Network. Applied Mechanics and Materials, 0, 263-266, 2458-2461.	0.2	0
114	Image Restoration Based on the Hybrid Total-Variation-Type Model. Abstract and Applied Analysis, 2012, 2012, 1-30.	0.3	2
115	Poisson Noise Removal Scheme Based on Fourth-Order PDE by Alternating Minimization Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-14.	0.3	8
116	Homotopy Curve Tracking for Total Variation Image Restoration. Journal of Computational Mathematics, 2012, 30, 177-196.	0.2	6
117	Image restoration: Total variation, wavelet frames, and beyond. Journal of the American Mathematical Society, 2012, 25, 1033-1089.	1.9	259
118	Improved higher degree total variation (HDTV) regularization. , 2012, , .		1
119	A primal–dual interior-point framework for using the L1 or L2 norm on the data and regularization terms of inverse problems. Inverse Problems, 2012, 28, 095011.	1.0	58
120	Metric learning with two-dimensional smoothness for visual analysis. , 2012, , .		2
121	Medical image restoration with different types of noise. , 2012, 2012, 4382-5.		5
122	Sinogram Restoration for Low-Dosed X-Ray Computed Tomography Using Fractional-Order Perona-Malik Diffusion. Mathematical Problems in Engineering, 2012, 2012, 1-13.	0.6	13
123	Estimated radiation dose reduction using non-linear diffusion method in computed radiography. , 2012, 2012, 1502-5.		0
124	Diagnostic Ultrasound Image Enhancement: A Multiscale Permutation Approach. Journal of Imaging Science and Technology, 2012, 56, 1-12.	0.3	3
125	High-order fractional partial differential equation transform for molecular surface construction. Computational and Mathematical Biophysics, 2013, 1, 1-25.	0.6	9
126	Partial Differential Equation-Based Approach for Empirical Mode Decomposition: Application on Image Analysis. IEEE Transactions on Image Processing, 2012, 21, 3991-4001.	6.0	24
127	Image Denoising Using Mean Curvature of Image Surface. SIAM Journal on Imaging Sciences, 2012, 5, 1-32.	1.3	136

#	Article	IF	CITATIONS
128	Geometric modeling of subcellular structures, organelles, and multiprotein complexes. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 1198-1223.	1.0	24
129	Iterative algorithms for total variation-like reconstructions in seismic tomography. GEM - International Journal on Geomathematics, 2012, 3, 179-208.	0.7	24
130	A new image denoising algorithm based on adaptive threshold and fourth order partial diffusion equation. , 2012, , .		1
131	A novel image smoothing model based on orientation information measure. , 2012, , .		0
132	A variational model of image restoration based on first and second order derivatives and its Split Bregman algorithm. , 2012, , .		2
133	Mixed Tikhonov regularization in Banach spaces based on domain decomposition. Applied Mathematics and Computation, 2012, 218, 11583-11596.	1.4	4
134	Existence, uniqueness and stability of minimizers of generalized Tikhonov–Phillips functionals. Journal of Mathematical Analysis and Applications, 2012, 396, 396-411.	0.5	9
135	Recent advances of variational model in medical imaging and applications to computer aided surgery. Applied Mathematics, 2012, 27, 379-411.	0.6	4
136	A two-stage approach to blind spatially-varying motion deblurring. , 2012, , .		14
137	Robust Image Deblurring With an Inaccurate Blur Kernel. IEEE Transactions on Image Processing, 2012, 21, 1624-1634.	6.0	57
138	Biomolecular surface construction by PDE transform. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 291-316.	1.0	32
139	Adaptive Fractional-order Multi-scale Method for Image Denoising. Journal of Mathematical Imaging and Vision, 2012, 43, 39-49.	0.8	81
140	A Nonlocal Version of the Osher-Solé-Vese Model. Journal of Mathematical Imaging and Vision, 2012, 44, 99-113.	0.8	11
141	A New TV-Stokes Model with Augmented Lagrangian Method for Image Denoising and Deconvolution. Journal of Scientific Computing, 2012, 51, 505-526.	1.1	13
142	Image deconvolution using a characterization of sharp images in wavelet domain. Applied and Computational Harmonic Analysis, 2012, 32, 295-304.	1.1	21
143	Adaptive level set evolution starting with a constant function. Applied Mathematical Modelling, 2012, 36, 3217-3228.	2.2	27
144	A modified fixed-point iterative algorithm for image restoration using fourth-order PDE model. Applied Numerical Mathematics, 2012, 62, 79-90.	1.2	8
145	Homotopy method for a mean curvature-based denoising model. Applied Numerical Mathematics, 2012, 62, 185-200.	1.2	15

#	Article	IF	CITATIONS
146	Nonlocal total variation models for multiplicative noise removal using split Bregman iteration. Mathematical and Computer Modelling, 2012, 55, 939-954.	2.0	75
147	Hessian-Based Norm Regularization for Image Restoration With Biomedical Applications. IEEE Transactions on Image Processing, 2012, 21, 983-995.	6.0	188
148	Adaptive Perona–Malik Model Based on the Variable Exponent for Image Denoising. IEEE Transactions on Image Processing, 2012, 21, 958-967.	6.0	82
149	Higher Degree Total Variation (HDTV) Regularization for Image Recovery. IEEE Transactions on Image Processing, 2012, 21, 2559-2571.	6.0	158
150	Computation of a 3-D Model for Lung Imaging With Electrical Impedance Tomography. IEEE Transactions on Magnetics, 2012, 48, 651-654.	1.2	19
151	Mode Decomposition Evolution Equations. Journal of Scientific Computing, 2012, 50, 495-518.	1.1	21
152	Non-convex hybrid total variation for image denoising. Journal of Visual Communication and Image Representation, 2013, 24, 332-344.	1.7	74
153	Fewâ€view image reconstruction combining total variation and a highâ€order norm. International Journal of Imaging Systems and Technology, 2013, 23, 249-255.	2.7	45
154	A fixed-point augmented Lagrangian method for total variation minimization problems. Journal of Visual Communication and Image Representation, 2013, 24, 1168-1181.	1.7	6
155	Proximity algorithms for the L1/TV image denoising model. Advances in Computational Mathematics, 2013, 38, 401-426.	0.8	67
156	Anisotropic second and fourth order diffusion models based on Convolutional Virtual Electric Field for image denoising. Computers and Mathematics With Applications, 2013, 66, 1729-1742.	1.4	41
157	A Two-Stage Image Segmentation Method Using a Convex Variant of the Mumford–Shah Model and Thresholding. SIAM Journal on Imaging Sciences, 2013, 6, 368-390.	1.3	150
158	Image Decomposition Using Bregman-GTV and Meyer's G-Norm. , 2013, , .		0
159	Improving the denoising performance of Perona Malik filter using adaptive edge indicator. , 2013, , .		1
160	Image Restoration Combining Tikhonov with Different Order Nonconvex Nonsmooth Regularizations. , 2013, , .		1
161	Data-Driven MRSI Spectral Localization Via Low-Rank Component Analysis. IEEE Transactions on Medical Imaging, 2013, 32, 1853-1863.	5.4	23
162	Higher-Order TV Methods—Enhancement via Bregman Iteration. Journal of Scientific Computing, 2013, 54, 269-310.	1.1	159
163	An effective method for solving nonlinear equations and its application. Applied Mathematics and Computation, 2013, 220, 568-579.	1.4	2

#	Article	IF	CITATIONS
164	Image restoration with a high-order total variation minimization method. Applied Mathematical Modelling, 2013, 37, 8210-8224.	2.2	73
165	A fast majorize minimize algorithm for higher degree total variation regularization. , 2013, , 326-329.		1
166	Multiplicity of radially symmetric solutions for a p-harmonic equation in R N. Journal of Inequalities and Applications, 2013, 2013, .	0.5	2
167	Local weighted Gaussian curvature for image processing. , 2013, , .		32
168	High-order total variation-based multiplicative noise removal with spatially adapted parameter selection. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1956.	0.8	25
169	Fractional Partial Differential Equation: Fractional Total Variation and Fractional Steepest Descent Approach-Based Multiscale Denoising Model for Texture Image. Abstract and Applied Analysis, 2013, 2013, 1-19.	0.3	13
170	New Regularization Models for Image Denoising with a Spatially Dependent Regularization Parameter. Abstract and Applied Analysis, 2013, 2013, 1-15.	0.3	3
171	Image Restoration Based on Partial Differential Equations (PDEs). Advanced Materials Research, 0, 647, 912-917.	0.3	1
172	Augmented Lagrangian method for a mean curvature based image denoising model. Inverse Problems and Imaging, 2013, 7, 1409-1432.	0.6	82
173	A Fast High-Order Total Variation Minimization Method for Multiplicative Noise Removal. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	14
174	Split Bregman Iteration Algorithm for Image Deblurring Using Fourth-Order Total Bounded Variation Regularization Model. Journal of Applied Mathematics, 2013, 2013, 1-11.	0.4	11
175	A Fast Augmented Lagrangian Method for Euler's Elastica Models. Numerical Mathematics, 2013, 6, 47-71.	0.6	21
176	Image Restoration Combining the Second-Order and Fourth-Order PDEs. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	12
177	Hessian Schatten-Norm Regularization for Linear Inverse Problems. IEEE Transactions on Image Processing, 2013, 22, 1873-1888.	6.0	138
178	A weighted dual porous medium equation applied to image restoration. Mathematical Methods in the Applied Sciences, 2013, 36, 2117-2127.	1.2	2
179	Fourth order method for image denoising based on Gaussian curvature. , 2013, , .		0
180	ENTROPY ESTIMATES AND LARGE-TIME BEHAVIOR OF SOLUTIONS TO A FOURTH-ORDER NONLINEAR DEGENERATE EQUATION. Communications in Contemporary Mathematics, 2013, 15, 1250066.	0.6	5
181	Spatially dependent regularization parameter selection in total generalized variation models for image restoration. International Journal of Computer Mathematics, 2013, 90, 109-123.	1.0	58

#	Article	IF	CITATIONS
182	A variational framework for image denoising based on fractional-order derivatives. , 2013, , .		3
183	Low-Dosed X-Ray Computed Tomography Imaging by Regularized Fully Spatial Fractional-Order Perona-Malik Diffusion. Advances in Mathematical Physics, 2013, 2013, 1-9.	0.4	6
184	External Fractional-Order Gradient Vector Perona-Malik Diffusion for Sinogram Restoration of Low-Dosed X-Ray Computed Tomography. Advances in Mathematical Physics, 2013, 2013, 1-10.	0.4	8
185	Restoring Poissonian Images by a Combined First-Order and Second-Order Variation Approach. Journal of Mathematics, 2013, 2013, 1-11.	0.5	4
186	Adaptive shearlet-regularized image deblurring via alternating direction method. , 2014, , .		7
187	Fractional domain varying-order differential denoising method. Optical Engineering, 2014, 53, 102102.	0.5	10
188	An Alternative Variational Framework for Image Denoising. Abstract and Applied Analysis, 2014, 2014, 1-16.	0.3	8
189	A Total Variation Model Based on the Strictly Convex Modification for Image Denoising. Abstract and Applied Analysis, 2014, 2014, 1-16.	0.3	5
190	Adaptive Image Denoising Approach Based on Generalized Lp Norm Variational Model. Applied Mechanics and Materials, 0, 556-562, 4851-4855.	0.2	2
191	Mixed Higher Order Variational Model for Image Recovery. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	0
192	Few-view image reconstruction with fractional-order total variation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 981.	0.8	64
193	A fourth order P_Laplace underwater image restoration method based on MSG. , 2014, , .		1
194	Improved proton computed tomography by dual modality image reconstruction. Medical Physics, 2014, 41, 031904.	1.6	16
195	A COMBINED FIRST-ORDER AND SECOND-ORDER VARIATION APPROACH FOR MULTIPLICATIVE NOISEÂREMOVAL. ANZIAM Journal, 2014, 56, 116-137.	0.3	1
196	A High-Order Model of TV and its Augmented Lagrangian Algorithm. Applied Mechanics and Materials, 0, 568-570, 726-733.	0.2	3
197	TV+TV <sup><b>2</b></sup> Regularization with Nonconvex Sparseness-Inducing Penalty for Image Restoration. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	4
198	An Adaptive Total Generalized Variation Model with Augmented Lagrangian Method for Image Denoising. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	11
199	Data-driven tight frame construction and image denoising. Applied and Computational Harmonic Analysis, 2014, 37, 89-105.	1.1	201

ARTICLE IF CITATIONS # High-order TVL1-based images restoration and spatially adapted regularization parameter selection. 200 1.4 46 Computers and Mathematics With Applications, 2014, 67, 2015-2026. An Iterative Scheme for Total Variation-Based Image Denoising. Journal of Scientific Computing, 2014, 1.1 58, 648-671. A coupled variational model for image denoising using a duality strategy and split Bregman. 202 1.7 19 Multidimensional Systems and Signal Processing, 2014, 25, 83-94. A Framework for Moving Least Squares Method with Total Variation Minimizing Regularization. Journal of Mathematical Imaging and Vision, 2014, 48, 566-582. On a System of Adaptive Coupled PDEs for Image Restoration. Journal of Mathematical Imaging and 204 0.8 23 Vision, 2014, 48, 35-52. A new nonlocal total variation regularization algorithm for image denoising. Mathematics and Computers in Simulation, 2014, 97, 224-233. 2.4 Generalized Higher Degree Total Variation (HDTV) Regularization. IEEE Transactions on Image 206 6.0 51 Processing, 2014, 23, 2423-2435. Efficient schemes for joint isotropic and anisotropic total variation minimization for deblurring 1.4 images corrupted by impulsive noise. Computers and Graphics, 2014, 38, 108-116. 208 Fast Hessian Frobenius Norm Based Image Restoration., 2014,,. 2 209 Multiscale Derivative Transform and Its Application to Image Watermarking., 2014, 33, 148-155. Curvelet-TV regularized Bregman iteration for seismic random noise attenuation. Journal of Applied 210 0.9 33 Geophysics, 2014, 109, 233-241. High-Accuracy Total Variation With Application to Compressed Video Sensing. IEEE Transactions on 211 6.0 34 Image Processing, 2014, 23, 3869-3884. Fractional partial differential equation denoising models for texture image. Science China 212 2.7 26 Information Sciences, 2014, 57, 1-19. A fractional partial differential equation based multiscale denoising model for texture image. 1.2 Mathematical Methods in the Applied Sciences, 2014, 37, 1784-1806. Single image motion deblurring: An accurate PSF estimation and ringing reduction. Optik, 2014, 125, 214 1.4 14 3612-3618. A Combined First and Second Order Variational Approach for Image Reconstruction. Journal of 213 Mathematical Imaging and Vision, 2014, 48, 308-338. A relaxed fixed point method for a mean curvature-based denoising model. Optimization Methods and 216 1.6 12 Software, 2014, 29, 274-285. Second Order Differences of Cyclic Data and Applications in Variational Denoising. SIAM Journal on 1.3 Imaging Sciences, 2014, 7, 2916-2953.

#	Article	IF	CITATIONS
218	Image quality comparison of reconstruction using total variation-based regularizers. , 2014, , .		0
219	Fracto-integer order total variation based multiplicative noise removal model. , 2015, , .		1
220	The Jump Set under Geometric Regularization. Part 1: Basic Technique and First-Order Denoising. SIAM Journal on Mathematical Analysis, 2015, 47, 2587-2629.	0.9	16
221	A spatially adaptive total variation regularization method for electrical resistance tomography. Measurement Science and Technology, 2015, 26, 125401.	1.4	30
222	Image Denoising via Residual Kurtosis Minimization. Numerical Mathematics, 2015, 8, 406-424.	0.6	6
223	Effective noiseâ€suppressed and artifactâ€reduced reconstruction of SPECT data using a preconditioned alternating projection algorithm. Medical Physics, 2015, 42, 4872-4887.	1.6	10
224	Improved algorithm for image TV regularization restoration model based on texture and contrast compensation. , 2015, , .		0
225	Total variation based ampoule injection image denoising with universal gravity theory. International Journal of Computer Applications in Technology, 2015, 51, 219.	0.3	0
226	Fast Second Degree Total Variation Method for Image Compressive Sensing. PLoS ONE, 2015, 10, e0137115.	1.1	2
227	Image Structure-Preserving Denoising Based on Difference Curvature Driven Fractional Nonlinear Diffusion. Mathematical Problems in Engineering, 2015, 2015, 1-16.	0.6	8
228	Multiscale Hybrid Nonlocal Means Filtering Using Modified Similarity Measure. Mathematical Problems in Engineering, 2015, 2015, 1-17.	0.6	7
229	Simultaneous Cartoon and Texture Image Restoration with Higher-Order Regularization. SIAM Journal on Imaging Sciences, 2015, 8, 721-756.	1.3	12
230	Structure Tensor Total Variation. SIAM Journal on Imaging Sciences, 2015, 8, 1090-1122.	1.3	102
231	Hessian Schatten-norm regularization for CBCT image reconstruction using fast iterative shrinkage-thresholding algorithm. , 2015, , .		2
232	Weighted total generalized variation for compressive sensing reconstruction. , 2015, , .		1
233	GPR background removal using a directional total variation minimisation approach. Journal of Geophysics and Engineering, 2015, 12, 897-908.	0.7	8
234	Sparse tensor recovery via combined first and second order high-accuracy total variation. , 2015, , .		0
235	Image restoration with I 2 -type edge-continuous overlapping group sparsity. Pattern Recognition Letters, 2015, 68, 211-216.	2.6	2

# 236	ARTICLE Efficient multiplicative noise removal method using isotropic second order total variation. Computers and Mathematics With Applications, 2015, 70, 2029-2048.	IF 1.4	Citations 9
237	Missing Information Reconstruction of Remote Sensing Data: A Technical Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 61-85.	4.9	342
238	CBCT reconstruction via a penalty combining total variation and its higher-degree term. Proceedings of SPIE, 2015, , .	0.8	2
239	Variational image segmentation model coupled with image restoration achievements. Pattern Recognition, 2015, 48, 2029-2042.	5.1	36
240	Iterative CBCT reconstruction using Hessian penalty. Physics in Medicine and Biology, 2015, 60, 1965-1987.	1.6	37
241	Exponential total variation model for noise removal, its numerical algorithms and applications. AEU - International Journal of Electronics and Communications, 2015, 69, 644-654.	1.7	6
242	Fractional-order total variation image denoising based on proximity algorithm. Applied Mathematics and Computation, 2015, 257, 537-545.	1.4	67
243	Alternating split Bregman method for the bilaterally constrained image deblurring problem. Applied Mathematics and Computation, 2015, 250, 402-414.	1.4	10
244	Efficient algorithms for hybrid regularizers based image denoising and deblurring. Computers and Mathematics With Applications, 2015, 69, 675-687.	1.4	18
245	An efficient nonconvex regularization for wavelet frame and total variation based image restoration. Journal of Computational and Applied Mathematics, 2015, 290, 553-566.	1.1	22
246	Image restoration using total variation with overlapping group sparsity. Information Sciences, 2015, 295, 232-246.	4.0	132
247	On Few-View Tomography and Staircase Artifacts. IEEE Transactions on Nuclear Science, 2015, 62, 851-858.	1.2	8
248	A new nonlocal variational setting for image processing. Inverse Problems and Imaging, 2015, 9, 415-430.	0.6	11
249	Combined First and Second Order Variational Approaches for Image Processing. Deutsche Mathematiker Vereinigung Jahresbericht, 2015, 117, 133-160.	0.4	10
250	Nonlocal Structure Tensor Functionals for Image Regularization. IEEE Transactions on Computational Imaging, 2015, 1, 16-29.	2.6	43
251	Image deblurring associated with shearlet sparsity and weighted anisotropic total variation. Journal of Electronic Imaging, 2015, 24, 023001.	0.5	7
252	Recovery of Discontinuous Signals Using Group Sparse Higher Degree Total Variation. IEEE Signal Processing Letters, 2015, 22, 1414-1418.	2.1	8
253	Variational Mesh Denoising Using Total Variation and Piecewise Constant Function Space. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 873-886.	2.9	83

#	Article	IF	CITATIONS
254	A Total Fractional-Order Variation Model for Image Restoration with Nonhomogeneous Boundary Conditions and Its Numerical Solution. SIAM Journal on Imaging Sciences, 2015, 8, 2487-2518.	1.3	103
255	Introducing Maximal Anisotropy into Second Order Coupling Models. Lecture Notes in Computer Science, 2015, , 79-90.	1.0	6
256	Generalized Total Variation: Tying the Knots. IEEE Signal Processing Letters, 2015, 22, 2009-2013.	2.1	18
257	Nonconvex higher-order regularization based Rician noise removal with spatially adaptive parameters. Journal of Visual Communication and Image Representation, 2015, 32, 180-193.	1.7	14
258	Analysis and Application of a Nonlocal Hessian. SIAM Journal on Imaging Sciences, 2015, 8, 2161-2202.	1.3	13
259	Spatial fractional telegraph equation for image structure preserving denoising. Signal Processing, 2015, 107, 368-377.	2.1	25
260	Alternating direction method for the high-order total variation-based Poisson noise removal problem. Numerical Algorithms, 2015, 69, 495-516.	1.1	24
261	A fourth-order partial differential equation denoising model with an adaptive relaxation method. International Journal of Computer Mathematics, 2015, 92, 608-622.	1.0	15
262	Evaluation of noise removal algorithms for imaging and reconstruction of vascular networks using micro-CT. Biomedical Physics and Engineering Express, 2016, 2, 045015.	0.6	14
263	Compressive imaging reconstruction using adaptive directional total variation based on structure orientation fields. Journal of Electronic Imaging, 2016, 25, 063023.	0.5	0
264	Robust two-step image restoration with adaptive regularization parameter. , 2016, , .		0
265	Image Inpainting Based on Gradient Weighted Patch Propagation and Color Rectification. , 2016, , .		0
266	Using High Order Total Variation for Denoising Speckle, Gaussian, Salt & Pepper. , 2016, , .		1
267	Some Facts About Operator-Splitting and Alternating Direction Methods. Scientific Computation, 2016, , 19-94.	0.2	20
268	Augmented Lagrangian method for total generalized variation based Poissonian image restoration. Computers and Mathematics With Applications, 2016, 71, 1694-1705.	1.4	19
269	Global variational method for fingerprint segmentation by three-part decomposition. IET Biometrics, 2016, 5, 120-130.	1.6	30
270	Optimising Big Images. Studies in Big Data, 2016, , 97-131.	0.8	1
271	A new variational approach for restoring images with multiplicative noise. Computers and Mathematics With Applications, 2016, 71, 2034-2050.	1.4	27

#	Article	IF	CITATIONS
272	Alternating direction method for TGVâ€₹GV* based cartoonâ€ŧexture image decomposition. IET Image Processing, 2016, 10, 495-504.	1.4	4
273	A modified multi-grid algorithm for a novel variational model to remove multiplicative noise. Journal of Visual Communication and Image Representation, 2016, 40, 485-501.	1.7	8
274	A new augmented Lagrangian primal dual algorithm for elastica regularization. Journal of Algorithms and Computational Technology, 2016, 10, 325-338.	0.4	8
275	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. Biomedical Optics Express, 2016, 7, 3299.	1.5	8
276	Nonlinear diffusion filtering for peak-preserving smoothing of a spectrum signal. Chemometrics and Intelligent Laboratory Systems, 2016, 156, 157-165.	1.8	21
277	An Augmented Lagrangian Method for \$ell_{1}\$-Regularized Optimization Problems with Orthogonality Constraints. SIAM Journal of Scientific Computing, 2016, 38, B570-B592.	1.3	24
278	A class of hyperbolic-parabolic coupled systems applied to image restoration. Boundary Value Problems, 2016, 2016, .	0.3	3
279	Nonconvex Second-Order Variational Image Denoising Model with Adaptive Selection of Regularization Parameters. , 2016, , .		0
280	Multiple degree total variation (MDTV) regularization for image restoration. , 2016, 2016, 1958-1962.		2
281	Positive radial solutions for quasilinear biharmonic equations. Computers and Mathematics With Applications, 2016, 72, 2878-2886.	1.4	2
282	Image deblurring and denoising by an improved variational model. AEU - International Journal of Electronics and Communications, 2016, 70, 1128-1133.	1.7	15
283	Deblurring Poisson noisy images by total variation with overlapping group sparsity. Applied Mathematics and Computation, 2016, 289, 132-148.	1.4	19
284	A Second Order Nonsmooth Variational Model for Restoring Manifold-Valued Images. SIAM Journal of Scientific Computing, 2016, 38, A567-A597.	1.3	61
285	Fractional nonlinear anisotropic diffusion with p-Laplace variation method for image restoration. Multimedia Tools and Applications, 2016, 75, 4505-4526.	2.6	23
286	An improved noise removal model based on nonlinear fourth-order partial differential equations. International Journal of Computer Mathematics, 2016, 93, 942-954.	1.0	10
287	A fast higher degree total variation minimization method for image restoration. International Journal of Computer Mathematics, 2016, 93, 1383-1404.	1.0	3
288	A Natural-Scene Gradient Distribution Prior and its Application in Light-Microscopy Image Processing. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 99-114.	7.3	29
289	Collaborative Total Variation: A General Framework for Vectorial TV Models. SIAM Journal on Imaging Sciences, 2016, 9, 116-151.	1.3	51

#	Article	IF	CITATIONS
290	Variational Image Colorization Models Using Higher-Order Mumford–Shah Regularizers. Journal of Scientific Computing, 2016, 68, 864-888.	1.1	9
291	A Second-Order TV-Type Approach for Inpainting and Denoising Higher Dimensional Combined Cyclic and Vector Space Data. Journal of Mathematical Imaging and Vision, 2016, 55, 401-427.	0.8	24
292	Statistical iterative reconstruction using adaptive fractional order regularization. Biomedical Optics Express, 2016, 7, 1015.	1.5	65
293	Infimal Convolution Regularisation Functionals of BV and \$\$varvec{mathrm {L}}^{varvec{p}}\$\$ L p Spaces. Journal of Mathematical Imaging and Vision, 2016, 55, 343-369.	0.8	27
294	Magnetic resonance spectroscopic imaging at superresolution: Overview and perspectives. Journal of Magnetic Resonance, 2016, 263, 193-208.	1.2	19
295	Weighted total generalised variation scheme for image restoration. IET Image Processing, 2016, 10, 80-88.	1.4	2
296	Wavelet Frame Based Image Restoration via Combined Sparsity and Nonlocal Prior of Coefficients. Journal of Scientific Computing, 2016, 66, 196-224.	1.1	9
297	Bilevel Parameter Learning for Higher-Order Total Variation Regularisation Models. Journal of Mathematical Imaging and Vision, 2017, 57, 1-25.	0.8	73
298	Total Generalized Variation Based Denoising Models for Ultrasound Images. Journal of Scientific Computing, 2017, 72, 172-197.	1.1	15
299	A New TV-Stokes Model for Image Deblurring and Denoising with Fast Algorithms. Journal of Scientific Computing, 2017, 72, 522-541.	1.1	7
300	Nonexpansiveness of a linearized augmented Lagrangian operator for hierarchical convex optimization. Inverse Problems, 2017, 33, 044003.	1.0	14
301	Implicit surface reconstruction with total variation regularization. Computer Aided Geometric Design, 2017, 52-53, 135-153.	0.5	16
302	Recovering fine details from under-resolved electron tomography data using higher order total variation < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0004.gif" overflow="scroll" > < mml:msub subscriptshift="65%" > < mml:mrow > < mml:mo > â,, "< / mml:mo > < / mml:mrow > < mml:mrow > < mml:mn > 1 < / mml:mn >	0.8 <td>24 bw&gt;</td>	24 bw>
303	Ultramicroscopy, 2017, 174, 97-105. Fast algorithm for image denoising with different boundary conditions. Journal of the Franklin Institute, 2017, 354, 4595-4614.	1.9	4
304	Relaxed ordered subset preconditioned alternating projection algorithm for PET reconstruction with automated penalty weight selection. Medical Physics, 2017, 44, 4083-4097.	1.6	10
305	High-TV Based CS Framework Using MAP Estimator for SAR Image Enhancement. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4059-4073.	2.3	8
306	Curvature-dependent Energies. Milan Journal of Mathematics, 2017, 85, 41-69.	0.7	1
307	The jump set under geometric regularisation. Part 2: Higher-order approaches. Journal of Mathematical Analysis and Applications, 2017, 453, 1044-1085.	0.5	6

		Report	
#	ARTICLE	IF	CITATIONS
308	The Shannon Total Variation. Journal of Mathematical Imaging and Vision, 2017, 59, 341-370.	0.8	12
309	Tensor compressed video sensing reconstruction by combination of fractional-order total variation and sparsifying transform. Signal Processing: Image Communication, 2017, 55, 146-156.	1.8	4
310	Feature-preserving filtering for micro-structured surfaces using combined sparse regularizers. Measurement: Journal of the International Measurement Confederation, 2017, 104, 278-286.	2.5	6
311	Assessment of vectorial total variation penalties on realistic dual-energy CT data. Physics in Medicine and Biology, 2017, 62, 3284-3298.	1.6	13
312	Composite SAR imaging using sequential joint sparsity. Journal of Computational Physics, 2017, 338, 357-370.	1.9	16
313	Geometric properties of solutions to the total variation denoising problem. Inverse Problems, 2017, 33, 015002.	1.0	35
314	Model-based iterative reconstruction using higher-order regularization of dynamic synchrotron data. Measurement Science and Technology, 2017, 28, 094004.	1.4	14
315	The application of nonlocal total variation in image denoising for mobile transmission. Multimedia Tools and Applications, 2017, 76, 17179-17191.	2.6	23
316	Subsampling and inpainting approaches for electron tomography. Ultramicroscopy, 2017, 182, 292-302.	0.8	6
317	PCM-TV-TFV: A Novel Two-Stage Framework for Image Reconstruction from Fourier Data. SIAM Journal on Imaging Sciences, 2017, 10, 2250-2274.	1.3	5
318	Modified Cheeger and ratio cut methods using the Ginzburg–Landau functional for classification of high-dimensional data. Inverse Problems, 2017, 33, 074003.	1.0	7
319	A Coupled Variational Problem of Linear Growth Related to the Denoising and Inpainting of Images. Journal of Mathematical Sciences, 2017, 224, 709-734.	0.1	0
320	Boosting normalized sparsity regularization for blind image deconvolution. Signal, Image and Video Processing, 2017, 11, 681-688.	1.7	2
321	Optimization methods for regularization-based ill-posed problems: a survey and a multi-objective framework. Frontiers of Computer Science, 2017, 11, 362-391.	1.6	19
322	Curvature-dependent energies: The elastic case. Nonlinear Analysis: Theory, Methods & Applications, 2017, 153, 7-34.	0.6	6
323	Simultaneous tumor segmentation, image restoration, and blur kernel estimation in PET using multiple regularizations. Computer Vision and Image Understanding, 2017, 155, 173-194.	3.0	15
324	EIT reconstruction using higher order TV regularization. IFAC-PapersOnLine, 2017, 50, 9943-9947.	0.5	4
325	A chromaticity-brightness model for color images denoising in a Meyer's "u + v―framework. Calculus of Variations and Partial Differential Equations, 2017, 56, 1.	0.9	2

#	Article	IF	CITATIONS
326	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. IEEE Transactions on Medical Imaging, 2017, 36, 2588-2599.	5.4	15
327	Learning Non-local Image Diffusion for Image Denoising. , 2017, , .		11
328	Modified simultaneous iterative reconstruction technique for fast, highâ€quality CT reconstruction. IET Image Processing, 2017, 11, 701-708.	1.4	7
329	Total variation denoising method to improve the detection process in IR images. , 2017, , .		6
330	A Comparison of Secondâ€Order Derivative Based Models for Time Domain Reflectometry Waveform Analysis. Vadose Zone Journal, 2017, 16, 1-10.	1.3	7
331	Effective Alternating Direction Optimization Methods for Sparsity-Constrained Blind Image Deblurring. Sensors, 2017, 17, 174.	2.1	33
332	A Unidirectional Total Variation and Second-Order Total Variation Model for Destriping of Remote Sensing Images. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	3
333	Mixed Total Variation and <mml:math m1"="" xmlns:mml="http://www.w3.org/1998/Math/Math/MathML&lt;br&gt;id="><mml:mrow><mml:msup><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn fontstyle="italic"&gt;1</mml:mn </mml:mrow></mml:msup></mml:mrow></mml:math> Regularization Method for Optical Tomography Based on Radiative Transfer Equation. Computational and	0.7	14
334	Mathematical Methods in Medicine, 2017, 2017, 1-15. Sparse-view image reconstruction via total absolute curvature combining total variation for X-ray computed tomography. Journal of X-Ray Science and Technology, 2017, 25, 959-980.	0.7	3
335	A New Variational Approach for Multiplicative Noise and Blur Removal. PLoS ONE, 2017, 12, e0161787.	1.1	16
336	Higher order total variation regularization for EIT reconstruction. Medical and Biological Engineering and Computing, 2018, 56, 1367-1378.	1.6	22
337	TGV-based multiplicative noise removal approach: Models and algorithms. Journal of Inverse and Ill-Posed Problems, 2018, 26, 703-727.	0.5	4
338	Image Denoising Using Generalized Anisotropic Diffusion. Journal of Mathematical Imaging and Vision, 2018, 60, 994-1007.	0.8	25
339	Regularization iteration imaging algorithm for electrical capacitance tomography. Measurement Science and Technology, 2018, 29, 035403.	1.4	16
340	An efficient denoising framework using weighted overlapping group sparsity. Information Sciences, 2018, 454-455, 292-311.	4.0	15
341	Normal curvatureâ€induced variational model for image restoration. IET Image Processing, 2018, 12, 679-689.	1.4	2
342	A new variational model for joint restoration and segmentation based on the Mumford-Shah model. Journal of Visual Communication and Image Representation, 2018, 53, 224-234.	1.7	10
343	Spatially dependent regularization parameter selection for total generalized variation-based image denoising. Computational and Applied Mathematics, 2018, 37, 277-296.	1.3	10

#	Article	IF	CITATIONS
344	Total generalized variation restoration with non-quadratic fidelity. Multidimensional Systems and Signal Processing, 2018, 29, 1459-1484.	1.7	28
345	Accelerated multicontrast volumetric imaging with isotropic resolution for improved periâ€infarct characterization using parallel imaging, lowâ€rank and spatially varying edgeâ€preserving sparse modeling. Magnetic Resonance in Medicine, 2018, 79, 3018-3031.	1.9	4
346	Nonconvex and nonsmooth total generalized variation model for image restoration. Signal Processing, 2018, 143, 69-85.	2.1	43
347	Parameter selection for HOTV regularization. Applied Numerical Mathematics, 2018, 125, 1-9.	1.2	6
348	Explicit Ringing Removal in Image Deblurring. IEEE Transactions on Image Processing, 2018, 27, 580-593.	6.0	18
349	A DDoS Attack Detection by Group-Sparse Plus Low-Rank Temporally-Smooth Decomposition for Extended OD Flow Matrix. , 2018, , .		Ο
350	Variational Methods. Applied and Numerical Harmonic Analysis, 2018, , 251-443.	0.1	1
351	Infrared Image Super-Resolution Reconstruction Based on Quaternion Fractional Order Total Variation with Lp Quasinorm. Applied Sciences (Switzerland), 2018, 8, 1864.	1.3	26
352	Image Restoration by a Mixed High-Order Total Variation and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mn fontstyle="italic"&gt;1</mml:mn </mml:mrow></mml:msub></mml:mrow>&lt;</mml:math 	0.6	4
353	A progression strategy of proximal algorithm applied to the digital images inpainting. , 2018, , .		Ο
354	Block Diagonal Preconditioners for an Image De-blurring Problem with Fractional Total Variation. Journal of Physics: Conference Series, 2018, 1132, 012063.	0.3	2
355	Multiscale higher-order TV operators for L1 regularization. Advanced Structural and Chemical Imaging, 2018, 4, 12.	4.0	10
356	Infimal convolutionâ€based regularization for <scp>SPECT</scp> reconstruction. Medical Physics, 2018, 45, 5397-5410.	1.6	4
357	Euler's elastica and curvature based model for image restoration. PLoS ONE, 2018, 13, e0202464.	1.1	8
358	An improved nonlinear diffusion in Laplacian pyramid domain for cone beam CT denoising during image-guided vascular intervention. BMC Medical Imaging, 2018, 18, 25.	1.4	4
359	Non-Local Patch-Based Regularization for Image Restoration. , 2018, , .		0
360	An image denoising model based on a fourth-order nonlinear partial differential equation. Computers and Mathematics With Applications, 2018, 76, 1056-1074.	1.4	29
361	An Improved Fractional-Order Optical Flow Model for Motion Estimation. Mathematical Problems in Engineering, 2018, 2018, 1-6.	0.6	3

#	Article	IF	CITATIONS
362	A tensor-based nonlocal total variation model for multi-channel image recovery. Signal Processing, 2018, 153, 321-335.	2.1	6
363	A New TGV-Gabor Model for Cartoon-Texture Image Decomposition. IEEE Signal Processing Letters, 2018, 25, 1221-1225.	2.1	15
364	Color image restoration and inpainting via multi-channel total curvature. Applied Mathematical Modelling, 2018, 61, 280-299.	2.2	15
365	Multiphase segmentation for simultaneously homogeneous and textural images. Applied Mathematics and Computation, 2018, 335, 146-181.	1.4	2
366	Mesh denoising via total variation and weighted Laplacian regularizations. Computer Animation and Virtual Worlds, 2018, 29, e1827.	0.7	13
367	Image Regularizations Based on the Sparsity of Corner Points. IEEE Transactions on Image Processing, 2019, 28, 72-87.	6.0	19
368	Parameter selection and solution algorithm for TGV-based image restoration model. SN Applied Sciences, 2019, 1, 1.	1.5	0
369	Directional total generalized variation regularization. BIT Numerical Mathematics, 2019, 59, 903-928.	1.0	24
370	A Novel Image-Restoration Method Based on High-Order Total Variation Regularization Term. Electronics (Switzerland), 2019, 8, 867.	1.8	7
371	Fast operator-splitting algorithms for variational imaging models: Some recent developments. Handbook of Numerical Analysis, 2019, 20, 191-232.	0.9	3
372	Generating structured nonsmooth priors and associated primal-dual methods. Handbook of Numerical Analysis, 2019, , 437-502.	0.9	9
373	A convex nonlocal total variation regularization algorithm for multiplicative noise removal. Eurasip Journal on Image and Video Processing, 2019, 2019, .	1.7	10
374	Hybrid variational model based on alternating direction method for image restoration. Advances in Difference Equations, 2019, 2019, .	3.5	8
375	Mobile Robotic Painting of Texture. , 2019, , .		10
376	Divide-and-conquer framework for image restoration and enhancement. Engineering Applications of Artificial Intelligence, 2019, 85, 830-844.	4.3	11
377	A new nonconvex approach for image restoration with Gamma noise. Computers and Mathematics With Applications, 2019, 77, 2627-2639.	1.4	7
378	A generalized hybrid nonconvex variational regularization model for staircase reduction in image restoration. Neurocomputing, 2019, 359, 15-31.	3.5	15
379	Color Image Restoration by Saturation-Value Total Variation. SIAM Journal on Imaging Sciences, 2019, 12, 972-1000.	1.3	46

#	Article	IF	CITATIONS
380	Optimization-Based Image Reconstruction From Fast-Scanned, Noisy Projections in EPR Imaging. IEEE Access, 2019, 7, 19590-19601.	2.6	12
381	Least-squares migration with a blockwise Hessian matrix: A prestack time-migration approach. Geophysics, 2019, 84, R625-R640.	1.4	13
382	Multiplicative Noise Removal for Texture Images Based on Adaptive Anisotropic Fractional Diffusion Equations. SIAM Journal on Imaging Sciences, 2019, 12, 839-873.	1.3	30
383	A new multiframe super-resolution based on nonlinear registration and a spatially weighted regularization. Information Sciences, 2019, 493, 34-56.	4.0	20
384	High-Order Total Bounded Variation Model and Its Fast Algorithm for Poissonian Image Restoration. Mathematical Problems in Engineering, 2019, 2019, 1-11.	0.6	2
385	An adaptive model combining a total variation filter and a fractional-order filter for image restoration. Journal of Algorithms and Computational Technology, 2019, 13, 174830181983305.	0.4	2
386	A Framework for Image Denoising Using First and Second Order Fractional Overlapping Group Sparsity (HF-OLGS) Regularizer. IEEE Access, 2019, 7, 26200-26217.	2.6	14
387	Structure tensor total variation for CBCT reconstruction. Journal of X-Ray Science and Technology, 2019, 27, 257-272.	0.7	2
388	A relaxed Newton–Picard like method for Huber variant of total variation based image restoration. Computers and Mathematics With Applications, 2019, 78, 224-239.	1.4	14
389	Fast Explicit Diffusion Scheme and Fourth-Order Nonlinear PDE for Image Noise Removal. , 2019, , .		0
390	Image Deconvolution with Deep Image and Kernel Priors. , 2019, , .		8
391	Total Variation Denoising for Optical Coherence Tomography. , 2019, , .		11
392	A first-order image denoising model for staircase reduction. Advances in Computational Mathematics, 2019, 45, 3217-3239.	0.8	7
393	A novel adaptive image zooming method based on nonlocal Cahn–Hilliard equation. Knowledge-Based Systems, 2019, 166, 118-131.	4.0	3
394	Triangulated Surface Denoising using High Order Regularization with Dynamic Weights. SIAM Journal of Scientific Computing, 2019, 41, B1-B26.	1.3	12
395	A new adaptive boosting total generalized variation (TGV) technique for image denoising and inpainting. Journal of Visual Communication and Image Representation, 2019, 59, 39-51.	1.7	31
396	Multiplicative Noise Removal Based on the Smooth Diffusion Equation. Journal of Mathematical Imaging and Vision, 2019, 61, 763-779.	0.8	17
397	Robustly reconstructing magnetic resonance images via structure decomposition. Magnetic Resonance Imaging, 2019, 57, 165-175.	1.0	4

#	Article	IF	CITATIONS
398	Total variation with overlapping group sparsity for deblurring images under Cauchy noise. Applied Mathematics and Computation, 2019, 341, 128-147.	1.4	30
399	Wavelet frame-based image restoration using sparsity, nonlocal, and support prior of frame coefficients. Visual Computer, 2019, 35, 151-174.	2.5	10
400	A new local and nonlocal total variation regularization model for image denoising. Cluster Computing, 2019, 22, 7611-7627.	3.5	5
401	Image denoising using combined higher order non-convex total variation with overlapping group sparsity. Multidimensional Systems and Signal Processing, 2019, 30, 503-527.	1.7	34
402	Undersampled CS image reconstruction using nonconvex nonsmooth mixed constraints. Multimedia Tools and Applications, 2019, 78, 12749-12782.	2.6	10
403	An iterative decoupled method with weighted nuclear norm minimization for image restoration. International Journal of Computer Mathematics, 2020, 97, 602-623.	1.0	6
404	Image denoising based on the adaptive weighted TV regularization. Signal Processing, 2020, 167, 107325.	2.1	35
405	A denoising model adapted for impulse and Gaussian noises using a constrained-PDE. Inverse Problems, 2020, 36, 025006.	1.0	24
406	An <i>HDTV-SB</i> imaging algorithm for wire-mesh tomography. Measurement Science and Technology, 2020, 31, 045404.	1.4	3
407	Remote sensing images destriping using unidirectional hybrid total variation and nonconvex low-rank regularization. Journal of Computational and Applied Mathematics, 2020, 363, 124-144.	1.1	93
408	A gradient flow for the p-elastic energy defined on closed planar curves. Mathematische Annalen, 2020, 378, 777-828.	0.7	6
409	NLTV-Gabor-based models for image decomposition and denoising. Signal, Image and Video Processing, 2020, 14, 305-313.	1.7	9
410	Two-Level method for the total fractional-order variation model in image deblurring problem. Numerical Algorithms, 2020, 85, 931-950.	1.1	6
411	Multiplanar reconstruction with incomplete data via enhanced fuzzy radial basis function neural networks. Biomedical Signal Processing and Control, 2020, 57, 101766.	3.5	1
412	A Hybrid Image Denoising Method Based on Integer and Fractional-Order Total Variation. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 1803-1814.	0.7	17
413	A TVâ^'L2â^'Hâ^'1 PDE model for effective denoising. Computers and Mathematics With Applications, 2020, 80, 2176-2193.	1.4	6
414	A New Spatially Adaptive TV Regularization for Digital Breast Tomosynthesis. , 2020, , .		1
415	Higher-Order Total Directional Variation: Imaging Applications. SIAM Journal on Imaging Sciences, 2020, 13, 2063-2104.	1.3	15

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#	Article	IF	CITATIONS
416	Learning deep edge prior for image denoising. Computer Vision and Image Understanding, 2020, 200, 103044.	3.0	29
417	Quantitative Dynamic Contrast-Enhanced MRI Identifies Radiation-Induced Vascular Damage in Patients With Advanced Osteoradionecrosis: Results of a Prospective Study. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1319-1328.	0.4	13
418	A Spatially Adaptive Edge-Preserving Denoising Method Based on Fractional-Order Variational PDEs. IEEE Access, 2020, 8, 163115-163128.	2.6	7
419	CURE: Curvature Regularization for Missing Data Recovery. SIAM Journal on Imaging Sciences, 2020, 13, 2169-2188.	1.3	4
420	Edge and Corner Awareness-Based Spatial–Temporal Tensor Model for Infrared Small-Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10708-10724.	2.7	48
421	Image Restoration by Combined Order Regularization with Optimal Spatial Adaptation. IEEE Transactions on Image Processing, 2020, , 1-1.	6.0	2
422	Hybrid higherâ€order total variation model for multiplicative noise removal. IET Image Processing, 2020, 14, 862-873.	1.4	12
423	Image restoration via the adaptive TVp regularization. Computers and Mathematics With Applications, 2020, 80, 569-587.	1.4	6
424	A multi-frame super-resolution based on new variational data fidelity term. Applied Mathematical Modelling, 2020, 87, 446-467.	2.2	16
425	Higher-Order Total Directional Variation: Analysis. SIAM Journal on Imaging Sciences, 2020, 13, 474-496.	1.3	12
426	A Total Fractional-Order Variation Model for Image Super-Resolution and Its SAV Algorithm. Journal of Scientific Computing, 2020, 82, 1.	1.1	10
427	A two-stage method for spectral–spatial classification of hyperspectral images. Journal of Mathematical Imaging and Vision, 2020, 62, 790-807.	0.8	21
428	Hybrid-Weighted Total Variation and Nonlocal Low-Rank-Based Image Compressed Sensing Reconstruction. IEEE Access, 2020, 8, 23002-23010.	2.6	3
429	Image Denoising Using \$\$L^{p}\$\$-norm of Mean Curvature of Image Surface. Journal of Scientific Computing, 2020, 83, 1.	1.1	4
430	A Globally Convergent Algorithm for a Constrained Non-Lipschitz Image Restoration Model. Journal of Scientific Computing, 2020, 83, 1.	1.1	8
431	Contextual adaptive fourth-order smoothing. Multimedia Tools and Applications, 2020, 79, 18435-18446.	2.6	0
432	An effective alternating direction method of multipliers for color image restoration. Applied Numerical Mathematics, 2021, 164, 43-56.	1.2	7
433	Forward-backward filtering and penalized least-Squares optimization: A Unified framework. Signal Processing, 2021, 178, 107796.	2.1	10

#	Article	IF	CITATIONS
434	Block-Based Refitting in \$\$ell _{12}\$\$ Sparse Regularization. Journal of Mathematical Imaging and Vision, 2021, 63, 216-236.	0.8	0
435	Proximal alternating minimization method for adaptive TGV-based image restoration. Multimedia Tools and Applications, 2021, 80, 10601-10614.	2.6	Ο
436	Infrared small target detection via self-regularized weighted sparse model. Neurocomputing, 2021, 420, 124-148.	3.5	91
437	Reconstruction of Optical Coherence Tomography Images Using Mixed Low Rank Approximation and Second Order Tensor Based Total Variation Method. IEEE Transactions on Medical Imaging, 2021, 40, 865-878.	5.4	13
438	A novel truncated nonconvex nonsmooth variational method for SAR image despeckling. Remote Sensing Letters, 2021, 12, 122-131.	0.6	13
439	Eyeglasses removal based on attributes detection and improved TV restoration model. Multimedia Tools and Applications, 2021, 80, 2691-2712.	2.6	0
440	lmage restoration using overlapping group sparsity on hyper-Laplacian prior of image gradient. Neurocomputing, 2021, 420, 57-69.	3.5	17
441	Fenchel Duality Theory and a Primal-Dual Algorithm on Riemannian Manifolds. Foundations of Computational Mathematics, 2021, 21, 1465-1504.	1.5	7
442	On the GSOR iteration method for image restoration. Numerical Algebra, Control and Optimization, 2021, 11, 27.	1.0	2
443	A Hybrid Regularization Operator and Its Application in Seismic Inversion. IEEE Access, 2021, 9, 117378-117387.	2.6	0
444	Time-fractional diffusion equation-based image denoising model. Nonlinear Dynamics, 2021, 103, 1999-2017.	2.7	12
445	Models for Multiplicative Noise Removal. , 2021, , 1-34.		1
446	Non-Convex High Order Total Variation With Overlapping Group Sparsity Denoising Model Under Cauchy Noise. IEEE Access, 2021, 9, 49901-49911.	2.6	3
447	The critical points of the elastic energy among curves pinned at endpoints. Discrete and Continuous Dynamical Systems, 2022, 42, 403.	0.5	2
448	Surface Estimation via Analysis Method: A Constrained Inverse Problem Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3386-3395.	1.7	2
449	Adaptive fourth-order diffusion smoothing via bilateral kernel. Signal, Image and Video Processing, 2021, 15, 1125-1133.	1.7	3
450	A class of singular diffusion equations based on the convex–nonconvex variation model for noise removal. Boundary Value Problems, 2021, 2021, .	0.3	0
452	A region fusion based split Bregman method for TV Denoising algorithm. Multimedia Tools and Applications, 2021, 80, 15875-15900.	2.6	4

#	Article	IF	CITATIONS
453	Image denoising by a novel variableâ€order total fractional variation model. Mathematical Methods in the Applied Sciences, 2021, 44, 7250-7261.	1.2	11
454	Enhanced total generalized variation method based on moreau envelope. Multimedia Tools and Applications, 2021, 80, 19539-19566.	2.6	3
455	A nonlinear fourth-order PDE for image denoising in Sobolev spaces with variable exponents and its numerical algorithm. Computational and Applied Mathematics, 2021, 40, 1.	1.0	7
456	Improved Hough Transform and Total Variation Algorithms for Features Extraction of Wood. Forests, 2021, 12, 466.	0.9	6
457	Weighted Hyper-Laplacian Prior with Overlapping Group Sparsity for Image Restoration under Cauchy Noise. Journal of Scientific Computing, 2021, 87, 1.	1.1	3
458	Nonlocal adaptive direction-guided structure tensor total variation for image recovery. Signal, Image and Video Processing, 2021, 15, 1517-1525.	1.7	4
459	On Bayesian Posterior Mean Estimators in Imaging Sciences and Hamilton–Jacobi Partial Differential Equations. Journal of Mathematical Imaging and Vision, 2021, 63, 821-854.	0.8	2
460	Implementation of total variation regularization-based approaches in the solution of linear inverse heat conduction problems concerning the estimation of surface heat fluxes. International Communications in Heat and Mass Transfer, 2021, 125, 105330.	2.9	11
461	Detection of normal and slow saccades using implicit piecewise polynomial approximation. Journal of Vision, 2021, 21, 8.	0.1	3
462	A First-Order Image Restoration Model that Promotes Image Contrast Preservation. Journal of Scientific Computing, 2021, 88, 1.	1.1	5
463	Image denoising via steerable directional Laplacian regularizer. Circuits, Systems, and Signal Processing, 2021, 40, 6265-6283.	1.2	2
464	Regularization with multilevel non-stationary tight framelets for image restoration. Applied and Computational Harmonic Analysis, 2021, 53, 332-348.	1.1	4
465	Modeling of Retinal Optical Coherence Tomography Based on Stochastic Differential Equations: Application to Denoising. IEEE Transactions on Medical Imaging, 2021, 40, 2129-2141.	5.4	20
466	Hybrid Regularized Cone-Beam Reconstruction for Axially Symmetric Object Tomography. Acta Mathematica Scientia, 0, , 1.	0.5	0
467	Image denoising based on nonconvex anisotropic total-variation regularization. Signal Processing, 2021, 186, 108124.	2.1	25
468	Multidirectional Anisotropic Total Variation and Its Application in the Tomography of the Surrounding Rock of Coal Mining Faces. Shock and Vibration, 2021, 2021, 1-15.	0.3	0
469	Identifying source term in the subdiffusion equation with L <sup>2</sup> -TV regularization <sup>*</sup> . Inverse Problems, 2021, 37, 105008.	1.0	4
470	Total generalized variation and wavelet transform for impulsive image restoration. Signal, Image and Video Processing, 0, , 1.	1.7	2

#	Article	IF	CITATIONS
471	Super-Resolution MRI Using Fractional Order Kernel Regression and Total Variation. Algorithms for Intelligent Systems, 2022, , 183-193.	0.5	0
472	Adaptive direction-guided structure tensor total variation. Signal Processing: Image Communication, 2021, 99, 116497.	1.8	1
473	Adaptive regularization parameter for nonconvex TGV based image restoration. Signal Processing, 2021, 188, 108247.	2.1	7
474	On the use of the Dual Norms in Bounded Variation Type Regularization. , 2006, , 373-390.		5
475	Stability and Local Feature Enhancement of Higher Order Nonlinear Diffusion Filtering. Lecture Notes in Computer Science, 2005, , 451-458.	1.0	14
476	A Brief Review of Image Denoising Algorithms and Beyond. The Springer Series on Challenges in Machine Learning, 2019, , 1-21.	10.4	30
478	Regularization with Sparse Vector Fields: From Image Compression to TV-type Reconstruction. Lecture Notes in Computer Science, 2015, , 191-202.	1.0	8
479	A Comparison of Isotropic and Anisotropic Second Order Regularisers for Optical Flow. Lecture Notes in Computer Science, 2017, , 537-549.	1.0	1
480	Nonlinear Diffusion-Based Image Restoration Models. Signals and Communication Technology, 2019, , 25-82.	0.4	4
481	Vector Extrapolation-Based Acceleration of Regularized Richardson Lucy Image Deblurring. Informatik Aktuell, 2009, , 400-404.	0.4	1
482	A Dual Formulation of the TV-Stokes Algorithm for Image Denoising. Lecture Notes in Computer Science, 2009, , 307-318.	1.0	8
483	An Anisotropic Fourth-Order Partial Differential Equation for Noise Removal. Lecture Notes in Computer Science, 2009, , 356-367.	1.0	10
484	Augmented Lagrangian Method, Dual Methods and Split Bregman Iteration for ROF Model. Lecture Notes in Computer Science, 2009, , 502-513.	1.0	123
485	Total-Variation Based Piecewise Affine Regularization. Lecture Notes in Computer Science, 2009, , 552-564.	1.0	19
486	A Fast Augmented Lagrangian Method for Euler's Elastica Model. Lecture Notes in Computer Science, 2012, , 144-156.	1.0	1
487	Convex Generalizations of Total Variation Based on the Structure Tensor with Applications to Inverse Problems. Lecture Notes in Computer Science, 2013, , 48-60.	1.0	30
488	A Fast Algorithm for a Mean Curvature Based Image Denoising Model Using Augmented Lagrangian Method. Lecture Notes in Computer Science, 2014, , 104-118.	1.0	7
489	Nonlinear Partial Differential Equations for Noise Problems. Advances in Imaging and Electron Physics, 2010, 164, 329-343.	0.1	3

#	Article	IF	CITATIONS
490	Curvature-dependent energies: a geometric and analytical approach. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2017, 147, 449-503.	0.8	4
491	A high order PDE-constrained optimization for the image denoising problem. Inverse Problems in Science and Engineering, 2021, 29, 1821-1863.	1.2	23
492	Spatially adaptive total generalized variation-regularized image deblurring with impulse noise. Journal of Electronic Imaging, 2018, 27, 1.	0.5	15
493	Total variation with overlapping group sparsity and Lp quasinorm for infrared image deblurring under salt-and-pepper noise. Journal of Electronic Imaging, 2019, 28, 1.	0.5	12
494	Reconstruct missing pixels of Landsat land surface temperature product using a CNN with partial convolution. , 2019, , .		4
495	BM3D-based total variation algorithm for speckle removal with structure-preserving in OCT images. Applied Optics, 2019, 58, 6233.	0.9	31
496	Total Variation with Overlapping Group Sparsity for Image Deblurring under Impulse Noise. PLoS ONE, 2015, 10, e0122562.	1.1	21
497	Multiplicity of positive solutions for a fourth-order quasilinear singular differential equation. Electronic Journal of Qualitative Theory of Differential Equations, 2010, , 1-15.	0.2	3
498	Nonconvex Total Generalized Variation Model forÂlmage Inpainting. Informatica, 2021, , 357-370.	1.5	3
499	Mumford-Shah Model Based on Weighted Total Generalized Variation. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 1913.	0.3	3
500	Augmented Lagrangian method for total variation restoration with non-quadratic fidelity. Inverse Problems and Imaging, 2011, 5, 237-261.	0.6	123
501	A fast modified Newton's method for curvature based denoising of 1D signals. Inverse Problems and Imaging, 2013, 7, 1075-1097.	0.6	4
502	Edge-preserving reconstruction with contour-line smoothing and non-quadratic data-fidelity. Inverse Problems and Imaging, 2013, 7, 1331-1366.	0.6	7
503	High-order total variation regularization approach for axially symmetric object tomography from a single radiograph. Inverse Problems and Imaging, 2015, 9, 55-77.	0.6	23
504	A fractional-order derivative based variational framework for image denoising. Inverse Problems and Imaging, 2016, 10, 27-50.	0.6	25
505	Image segmentation based on the hybrid total variation model and the K-means clustering strategy. Inverse Problems and Imaging, 2016, 10, 807-828.	0.6	7
506	Non-convex TV denoising corrupted by impulse noise. Inverse Problems and Imaging, 2017, 11, 689-702.	0.6	6
507	Nonconvex TGV regularization model for multiplicative noise removal with spatially varying parameters. Inverse Problems and Imaging, 2019, 13, 117-147.	0.6	14

#	Article	IF	CITATIONS
508	Poisson image denoising based on fractional-order total variation. Inverse Problems and Imaging, 2020, 14, 77-96.	0.6	28
509	Two-step methods for image zooming using duality strategies. Numerical Algebra, Control and Optimization, 2014, 4, 209-225.	1.0	1
510	Total Variation Applications in Computer Vision. Advances in Computational Intelligence and Robotics Book Series, 2016, , 41-64.	0.4	9
511	Fast Algorithms for the Anisotropic LLT Model in Image Denoising. East Asian Journal on Applied Mathematics, 2011, 1, 264-283.	0.4	2
512	Reducing Staircasing Artifacts in SPECT Reconstruction by an Infimal Convolution Regularization. Journal of Computational Mathematics, 2016, 34, 626-647.	0.2	7
513	A Nonstandard Higher-Order Variational Model for Speckle Noise Removal and Thin-Structure Detection. Journal of Mathematical Study, 2019, 52, 394-424.	0.6	2
514	A Boosting Procedure for Variational-Based Image Restoration. Numerical Mathematics, 2018, 11, 49-73.	0.6	8
515	Infimal convolution regularizations with discrete â""1-type functionals. Communications in Mathematical Sciences, 2011, 9, 797-827.	0.5	88
516	A semi-supervised heat kernel pagerank MBO algorithm for data classification. Communications in Mathematical Sciences, 2018, 16, 1241-1265.	0.5	7
517	Image decomposition using a second-order variational model and wavelet shrinkage. Electronic Letters on Computer Vision and Image Analysis, 2020, 18, 92.	0.5	1
518	Directional mean curvature for textured image demixing. Applied Mathematical Modelling, 2022, 102, 578-617.	2.2	0
519	Magnetic resonance electrical impedance tomography (MREIT). Series in Medical Physics and Biomedical Engineering, 2004, , .	0.1	1
521	Edge-Preserving Image Reconstruction with Wavelet-Domain Edge Continuation. Lecture Notes in Computer Science, 2009, , 13-22.	1.0	0
522	Constrained RLTV Deblurring for Confocal Microscopy. IFMBE Proceedings, 2009, , 1940-1943.	0.2	0
524	Image Denoising Based on the Modied ROF Model. , 0, , .		0
525	Multiplicative Noise Removal by a Fast Hybrid Total Variation Minimization Method. Journal of Information and Computational Science, 2013, 10, 4047-4055.	0.1	0
526	The Improvement of Total Variation Based Image Restoration Method and Its Application. , 2014, , 139-151.		1
527	Combination of LLT Model and TV Model for Image Denoising. International Journal of Signal Processing, Image Processing and Pattern Recognition, 2016, 9, 393-404.	0.2	0

ARTICLE IF CITATIONS # Hybrid image restoration model with adaptive weight parameter. Journal of Electronic Imaging, 2017, 528 0.5 1 26, 1. Nonblind image deblurring by total generalized variation and shearlet regularizations. Journal of 529 Electronic Imaging, 2017, 26, 1. Convex Hybrid Restoration and Segmentation Model for Color Images. International Journal of 530 0.5 0 Advanced Computer Science and Applications, 2018, 9, . Total Variation Applications in Computer Vision., 2018, , 543-570. 531 Spatially adapted second-order total generalized variational image deblurring model under impulse 532 0 noise. , 2018, , . Reducing Effects of Bad Data Using Variance Based Joint Sparsity Recovery. Journal of Scientific Computing, 2019, 78, 94-120. 1.1 Parameter Selection of Total Variation Model Based on BP Neural Network. Advances in Applied 534 0.0 0 Mathematics, 2019, 08, 1471-1477. Joint Nonlocal Low Rank and High-order Total Variation Priors for Multiplicative Noise Removal., 536 Exact solutions for the total variation denoising problem of piecewise constant images in dimension 537 0.2 0 one. Journal of Applied Analysis, 2021, 27, 13-33. TGV-regularized inversion of the Radon transform for photoacoustic tomography. Biomedical Optics 1.5 Express, 2020, 11, 994. Feature Preserving Regularized Savitzky–Golay Filter for Ultrasonic Images. Advances in Intelligent 540 0.5 0 Systems and Computing, 2020, , 1077-1090. Image decomposition and denoising using fractionalâ€order partial differential equations. IET Image 1.4 Processing, 2020, 14, 3471-3480. Shared Prior Learning of Energy-Based Models for Image Reconstruction. SIAM Journal on Imaging 542 1.3 6 Sciences, 2021, 14, 1706-1748. Two-stage Geometric Information Guided Image Reconstruction. Association for Women in 543 0.1 Mathematics Series, 2021, , 3-23. 3D Interactive Segmentation With Semi-Implicit Representation and Active Learning. IEEE Transactions 544 6.0 3 on Image Processing, 2021, 30, 9402-9417. Multi-Scale-Average-Filter-Assisted Level Set Segmentation Model with Local Region Restoration 545 Achievements. SSRN Electronic Journal, 0, , . An <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2617" altimg="si276.svg"><mml:msub><mml:mrow><mml:mi>â,,...</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml;mn></mml:mrow> 546 group sparse total variation for impulse noise image restoration. Signal Processing: Image Communication, 2022, 102, 116620. A spatially adaptive hybrid total variation model for image restoration under Gaussian plus impulse 547 1.4 noise. Applied Mathematics and Computation, 2022, 419, 126862.

#	Article	IF	CITATIONS
548	A Novel Task-Based reconstruction approach for digital breast tomosynthesis. Medical Image Analysis, 2022, 77, 102341.	7.0	3
549	Remove the salt and pepper noise based on the high order total variation and the nuclear norm regularization. Applied Mathematics and Computation, 2022, 421, 126925.	1.4	1
550	A non-convex denoising model for impulse and Gaussian noise mixture removing using bi-level parameter identification. Inverse Problems and Imaging, 2022, 16, 827.	0.6	18
551	Non-convex variational model for image restoration under impulse noise. Signal, Image and Video Processing, 0, , .	1.7	2
552	Image Reconstruction of Conductivity Distribution With Combined <i>L</i> <sub>1</sub> -Norm Fidelity and Hybrid Total Variation Penalty. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	3
553	A new anisotropic fourth-order diffusion equation model based on image features for image denoising. Inverse Problems and Imaging, 2022, 16, 895.	0.6	7
554	Restoration of Poissonian Images Using Nonconvex Regularizer with Overlapping Group Sparsity. Informatica, 2022, , 1-20.	1.5	0
555	Cartoon-Texture Decomposition with Patch-WiseÂDecorrelation. SSRN Electronic Journal, 0, , .	0.4	0
556	Infimal Convolution Regularized SPECT Image Reconstruction Based on Shearlet Transform. Computer Science and Application, 2022, 12, 385-391.	0.0	0
557	A variational method for Abel inversion tomography with mixed Poisson-Laplace-Gaussian noise. Inverse Problems and Imaging, 2022, .	0.6	2
558	Poisson Noise-Adapted Total Variation-Based Filter for Restoration and Enhancement of Mammogram Images. Transactions on Computer Systems and Networks, 2022, , 195-202.	0.5	0
559	A new PDE learning model for image denoising. Neural Computing and Applications, 2022, 34, 8551-8574.	3.2	6
560	New dual method for elastica regularization. PLoS ONE, 2022, 17, e0261195.	1.1	1
561	Self-Supervised Image Prior Learning with GMM from a Single Noisy Image. , 2021, , .		1
562	Non-Blind Image Deblurring Method Using Shear High Order Total Variation Norm. Wuhan University Journal of Natural Sciences, 2021, 26, 495-506.	0.2	1
563	Generalized Hessian-Schatten Norm Regularization for Image Reconstruction. IEEE Access, 2022, 10, 58163-58180.	2.6	0
564	An inertial primalâ€dual fixed point algorithm for composite optimization problems. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0
565	Spatially Adapted First and Second Order Regularization for Image Reconstruction: From an Image Surface Perspective. Journal of Scientific Computing, 2022, 92, .	1.1	1

#	Article	IF	CITATIONS
566	Image Restoration using Nonlocal Regularized Variational Model with Spatially Adapted Regularization Parameter. Mathematical Problems in Engineering, 2022, 2022, 1-24.	0.6	0
567	A non-convex PDE-constrained denoising model for impulse and Gaussian noise mixture reduction. Inverse Problems and Imaging, 2023, 17, 23-67.	0.6	5
568	The â,,"2,p regularized total variation with overlapping group sparsity prior for image restoration with impulse noise. Numerical Algorithms, 0, , .	1.1	0
569	A Non-Local Diffusion Equation for Noise Removal. Acta Mathematica Scientia, 2022, 42, 1779-1808.	0.5	0
570	Image Denoising Via Spatially Adaptive Directional Total Generalized Variation. Iranian Journal of Science and Technology, Transaction A: Science, 2022, 46, 1283-1294.	0.7	1
571	Phase Transition of Total Variation Based on Approximate Message Passing Algorithm. Electronics (Switzerland), 2022, 11, 2578.	1.8	0
572	A Spatial Color Compensation Model Using Saturation-Value Total Variation. SIAM Journal on Imaging Sciences, 2022, 15, 1400-1430.	1.3	0
573	Developing a Reliable Holographic Flow Cyto-Tomography Apparatus by Optimizing the Experimental Layout and Computational Processing. Cells, 2022, 11, 2591.	1.8	3
574	A nonconvex hybrid regularization model for restoring blurred images with mixed noises. , 2022, 130, 103734.		3
575	Anisotropic Tensor Weighted Fractional-Order Variation Image Denoising Model. Journal of Image and Signal Processing, 2022, 11, 162-181.	0.1	0
576	A Kalman Filter Framework for Simultaneous LTI Filtering and Total Variation Denoising. IEEE Transactions on Signal Processing, 2022, 70, 4543-4554.	3.2	2
577	Group Sparsity Mixture Model and Its Application on Image Denoising. IEEE Transactions on Image Processing, 2022, 31, 5677-5690.	6.0	5
578	A hybrid alternating minimization algorithm for structured convex optimization problems with application in Poissonian image processing. Journal of Industrial and Management Optimization, 2023, 19, 5078-5098.	0.8	2
579	An optimal bilevel optimization model for the generalized total variation and anisotropic tensor parameters selection. Applied Mathematics and Computation, 2023, 438, 127510.	1.4	0
580	Compressive Sensing MRI Reconstruction with Shearlet Sparsity and non-Convex Hybrid Total Variation. Applied Magnetic Resonance, 0, , .	0.6	1
581	Multi-scale-average-filter-assisted level set segmentation model with local region restoration achievements. Scientific Reports, 2022, 12, .	1.6	3
582	Total Variation Weighted Low-Rank Constraint for Infrared Dim Small Target Detection. Remote Sensing, 2022, 14, 4615.	1.8	8
583	A denoising model based on the fractional Beltrami regularization and its numerical solution. Journal of Applied Mathematics and Computing, 2023, 69, 1431-1463.	1.2	8

#	Article	IF	CITATIONS
584	Hybrid non-convex regularizers model for removing multiplicative noise. Computers and Mathematics With Applications, 2022, 126, 182-195.	1.4	2
585	Guided Nonlocal Patch Regularization and Efficient Filtering-Based Inversion for Multiband Fusion. IEEE Transactions on Computational Imaging, 2022, , 1-13.	2.6	0
586	Estimation and Uncertainty Quantification for Piecewise Smooth Signal Recovery. Journal of Computational Mathematics, 2023, 41, 246-262.	0.2	2
587	On a Variational Problem with a Nonstandard Growth Functional and Its Applications to Image Processing. Journal of Mathematical Imaging and Vision, 2023, 65, 472-491.	0.8	3
588	Total Generalized Variation for Triangulated Surface Data. Journal of Scientific Computing, 2022, 93, .	1.1	1
589	Nonlocal Adaptive Biharmonic Regularizer for Image Restoration. Journal of Mathematical Imaging and Vision, 0, , .	0.8	1
590	Cartoon-Texture decomposition with patch-wise decorrelation. Journal of Visual Communication and Image Representation, 2023, 90, 103726.	1.7	0
591	Edge detection from Xâ€ray tomographic data for geometric image registration. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0
592	Coupling local and nonlocal fourth-order evolution equations for image denoising. Inverse Problems and Imaging, 2023, 17, 686-707.	0.6	1
593	Retinex-qDPC: Automatic background-rectified quantitative differential phase contrast imaging. Computer Methods and Programs in Biomedicine, 2023, 230, 107327.	2.6	1
594	Inhomogeneous regularization with limited and indirect data. Journal of Computational and Applied Mathematics, 2023, 428, 115193.	1.1	0
595	Saturation-value based higher-order regularization for color image restoration. Multidimensional Systems and Signal Processing, 2023, 34, 365-394.	1.7	1
596	â"" <sub>0</sub> NHT V : A Non-convex Hybrid Total Variation Regularization Method for Image Restoration. , 2022, , .		0
597	Models for Multiplicative Noise Removal. , 2023, , 313-346.		0
598	Improved TV Image Denoising over Inverse Gradient. Symmetry, 2023, 15, 678.	1.1	4
599	Image denoising based on a new anisotropic mean curvature model. Inverse Problems and Imaging, 2023, 17, 870-889.	0.6	1
600	Hybrid priors based on weighted hyper-Laplacian with overlapping group sparsity for poisson noise removal. Signal, Image and Video Processing, 0, , .	1.7	1
601	A first-order Rician denoising and deblurring model. Inverse Problems and Imaging, 2023, 17, 1139-1164.	0.6	1

#	Article	IF	CITATIONS
604	Sparsity-Smoothness-Aware Power Spectral Density Estimation with Application to Phased Array Weather Radar. , 2023, , .		1
617	Parallel Alternating Derection Method of Multipliers with Application to Image Restoration. , 2023, , 107-139.		0