

# A Nonlinear Primal-Dual Method for Total Variation-Ba

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Citation Report

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A region merging based algorithm for total variation denoising. , 0, , .  |     | 2         |
| 2  | Images as embedding maps and minimal surfaces: movies, color, and volumetric medical images. , 0, , .   |     | 32        |
| 3  | Feature preserving lossy image compression using nonlinear PDEs. , 0, , .   |     | 2         |
| 4  | A Nonlinear Primal-Dual Method for Total Variation-Based Image Restoration. SIAM Journal of Scientific Computing, 1999, 20, 1964-1977.  | 1.3 | 630       |
| 5  | Steady Bingham fluid flow in cylindrical pipes: a time dependent approach to the iterative solution. Numerical Linear Algebra With Applications, 2000, 7, 381-428.                | 0.9 | 16        |
| 6  | Minimizing total variation flow. Comptes Rendus Mathematique, 2000, 331, 867-872.   | 0.5 | 38        |
| 7  | Nonmonotone and Monotone Active-Set Methods for Image Restoration, Part 2: Numerical Results. Journal of Optimization Theory and Applications, 2000, 106, 81-105.                 | 0.8 | 13        |
| 8  | Relations Between Regularization and Diffusion Filtering. Journal of Mathematical Imaging and Vision, 2000, 12, 43-63.  | 0.8 | 121       |
| 9  | Total variation improved wavelet thresholding in image compression. , 2000, , .   |     | 39        |
| 10 | An Efficient Primal-Dual Interior-Point Method for Minimizing a Sum of Euclidean Norms. SIAM Journal of Scientific Computing, 2000, 22, 243-262.                                  | 1.3 | 117       |
| 11 | High-Order Total Variation-Based Image Restoration. SIAM Journal of Scientific Computing, 2000, 22, 503-516.  | 1.3 | 625       |
| 12 | Explicit Algorithms for a New Time Dependent Model Based on Level Set Motion for Nonlinear Deblurring and Noise Removal. SIAM Journal of Scientific Computing, 2000, 22, 387-405. | 1.3 | 217       |
| 13 | Super-resolution enhancement of text image sequences. , 0, , .  |     | 81        |
| 14 | Iterative Multigrid Regularization Techniques for Image Matching. SIAM Journal of Scientific Computing, 2001, 23, 1077-1093.  | 1.3 | 51        |
| 15 | Grid refinement and scaling for distributed parameter estimation problems. Inverse Problems, 2001, 17, 571-590.   | 1.0 | 61        |
| 16 | Electrical impedance tomography. Inverse Problems, 2002, 18, R99-R136.  | 1.0 | 562       |
| 17 | Application of image processing for the conservation of the medieval mosaic. , 0, , .   |     | 2         |
| 18 | The Total Variation Flow in RN. Journal of Differential Equations, 2002, 184, 475-525.  | 1.1 | 206       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | TV Based Image Restoration with Local Constraints. Journal of Scientific Computing, 2003, 19, 95-122.  | 1.1 | 73        |
| 20 | Tube Methods for BV Regularization. Journal of Mathematical Imaging and Vision, 2003, 19, 219-235.   | 0.8 | 37        |
| 21 | Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher's contributions. Journal of Computational Physics, 2003, 185, 309-341.                 | 1.9 | 55        |
| 22 | On the foundations of vision modeling. Physica D: Nonlinear Phenomena, 2003, 175, 241-251.   | 1.3 | 105       |
| 23 | Multichannel blind iterative image restoration. IEEE Transactions on Image Processing, 2003, 12, 1094-1106.  | 6.0 | 143       |
| 24 | Identification of Discontinuous Coefficients in Elliptic Problems Using Total Variation Regularization. SIAM Journal of Scientific Computing, 2003, 25, 881-904.                                     | 1.3 | 94        |
| 25 | Acceleration Methods for Total Variation-Based Image Denoising. SIAM Journal of Scientific Computing, 2003, 25, 982-994.   | 1.3 | 48        |
| 26 | On Effective Stopping Time Selection for Visco-Plastic Nonlinear BV Diffusion Filters Used in Image Denoising. SIAM Journal on Applied Mathematics, 2003, 63, 1911-1934.                             | 0.8 | 12        |
| 27 | 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       |
| 28 | A local spectral inversion of a linearized TV model for denoising and deblurring. IEEE Transactions on Image Processing, 2003, 12, 808-816.  | 6.0 | 12        |
| 29 | Edge-preserving and scale-dependent properties of total variation regularization. Inverse Problems, 2003, 19, S165-S187.   | 1.0 | 451       |
| 30 | Scale-Space Methods and Regularization for Denoising and Inverse Problems. Advances in Imaging and Electron Physics, 2003, 128, 445-530.   | 0.1 | 13        |
| 31 | Analysis of total variation flow and its finite element approximations. ESAIM: Mathematical Modelling and Numerical Analysis, 2003, 37, 533-556.   | 0.8 | 78        |
| 32 | Unsupervised hierarchical multi-scale image segmentation level set, wavelet and additive splitting operator. , 2004, , .   |     | 4         |
| 33 | Blind deconvolution of bar code signals. Inverse Problems, 2004, 20, 121-135.  | 1.0 | 58        |
| 34 | Image Denoising and Decomposition with Total Variation Minimization and Oscillatory Functions. Journal of Mathematical Imaging and Vision, 2004, 20, 7-18.   | 0.8 | 138       |
| 35 | Practical, Unified, Motion and Missing Data Treatment in Degraded Video. Journal of Mathematical Imaging and Vision, 2004, 20, 163-177.  | 0.8 | 135       |
| 36 | An application of image processing in the medieval mosaic conservation. Pattern Analysis and Applications, 2004, 7, 18-25.   | 3.1 | 8         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Multimodal Image Registration Using a Variational Approach. SIAM Journal of Scientific Computing, 2004, 25, 1429-1447.  | 1.3 | 26        |
| 38 | Total Bounded Variation Regularization as a Bilaterally Constrained Optimization Problem. SIAM Journal on Applied Mathematics, 2004, 64, 1311-1333.   | 0.8 | 123       |
| 39 | Computational Methods for Large Distributed Parameter Estimation Problems in 3D. , 2005, , 15-36.   |     | 0         |
| 40 | Enhanced image-based coordinate measurement using a super-resolution method. Robotics and Computer-Integrated Manufacturing, 2005, 21, 579-588.   | 6.1 | 8         |
| 41 | Evolution of characteristic functions of convex sets in the plane by the minimizing total variation flow. Interfaces and Free Boundaries, 2005, 7, 29-53.                                     | 0.2 | 46        |
| 42 | Constrained Total Variation Minimization and Application in Computerized Tomography. Lecture Notes in Computer Science, 2005, , 456-472.  | 1.0 | 8         |
| 43 | Multichannel blind deconvolution of spatially misaligned images. IEEE Transactions on Image Processing, 2005, 14, 874-883.  | 6.0 | 119       |
| 44 | An Iterative Regularization Method for Total Variation-Based Image Restoration. Multiscale Modeling and Simulation, 2005, 4, 460-489.   | 0.6 | 1,477     |
| 45 | Second-order Cone Programming Methods for Total Variation-Based Image Restoration. SIAM Journal of Scientific Computing, 2005, 27, 622-645.   | 1.3 | 157       |
| 46 | A Multigrid Method for a Fourth-Order Diffusion Equation with Application to Image Processing. SIAM Journal of Scientific Computing, 2005, 27, 831-849.                                       | 1.3 | 41        |
| 47 | An improved and accelerated non-linear multigrid method for total-variation denoising. International Journal of Computer Mathematics, 2005, 82, 1001-1015.                                    | 1.0 | 32        |
| 48 | Salt-and-pepper noise removal by median-type noise detectors and detail-preserving regularization. IEEE Transactions on Image Processing, 2005, 14, 1479-1485.                                | 6.0 | 843       |
| 49 | Restoration and Zoom of Irregularly Sampled, Blurred, and Noisy Images by Accurate Total Variation Minimization with Local Constraints. Multiscale Modeling and Simulation, 2006, 5, 235-272. | 0.6 | 18        |
| 50 | Scale Recognition, Regularization Parameter Selection, and Meyer's G Norm in Total Variation Regularization. Multiscale Modeling and Simulation, 2006, 5, 273-303.                            | 0.6 | 54        |
| 51 | An Optimization-Based Multilevel Algorithm for Total Variation Image Denoising. Multiscale Modeling and Simulation, 2006, 5, 615-645.   | 0.6 | 66        |
| 52 | 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       |
| 53 | On Effective Methods for Implicit Piecewise Smooth Surface Recovery. SIAM Journal of Scientific Computing, 2006, 28, 339-358.   | 1.3 | 46        |
| 54 | Regularization operators for natural images based on nonlinear perception models. IEEE Transactions on Image Processing, 2006, 15, 189-200.   | 6.0 | 29        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Herschel-Bulkley diffusion filtering: non-Newtonian fluid mechanics in image processing. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2006, 86, 474-494. | 0.9  | 7         |
| 56 | Fourth-order partial differential equations for image enhancement. Applied Mathematics and Computation, 2006, 175, 430-440.  | 1.4  | 35        |
| 57 | New time dependent model for image restoration. Applied Mathematics and Computation, 2006, 179, 121-134.   | 1.4  | 11        |
| 58 | On a nonlinear multigrid algorithm with primal relaxation for the image total variation minimisation. Numerical Algorithms, 2006, 41, 387-411.                       | 1.1  | 29        |
| 59 | Splines in Higher Order TV Regularization. International Journal of Computer Vision, 2006, 70, 241-255.  | 10.9 | 114       |
| 60 | Constrained and SNR-Based Solutions for TV-Hilbert Space Image Denoising. Journal of Mathematical Imaging and Vision, 2006, 26, 217-237.                             | 0.8  | 59        |
| 61 | 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        |
| 62 | A Note on the Dual Treatment of Higher-Order Regularization Functionals. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Over                                       | 3.2  | 69        |
| 63 | Evolution-Operator-Based Single-Step Method for Image Processing. International Journal of Biomedical Imaging, 2006, 2006, 1-27.                                     | 3.0  | 15        |
| 64 | Approximate Methods for Constrained Total Variation Minimization. Lecture Notes in Computer Science, 2006, , 403-414.  | 1.0  | 0         |
| 65 | Robust Signal Recovery from Incomplete Observations. , 2006, , .   |      | 27        |
| 66 | A Variational Approach to Video Segmentation for Botanical Data. SIAM Journal of Scientific Computing, 2007, 29, 1550-1566.  | 1.3  | 2         |
| 67 | Total Variation Regularization of Matrix-Valued Images. International Journal of Biomedical Imaging, 2007, 2007, 1-11.   | 3.0  | 31        |
| 68 | Total Variation Regularization Used in Electrical Capacitance Tomography. AIP Conference Proceedings, 2007, , .  | 0.3  | 1         |
| 69 | Algorithmic strategies for full-waveform Inversion: 1D Experiments. , 2007, , .  |      | 0         |
| 70 | REGULARIZATION FOR INVERTING THE RADON TRANSFORM WITH WEDGE CONSIDERATION. , 2007, , .   |      | 9         |
| 71 | The Discontinuity Set of Solutions of the TV Denoising Problem and Some Extensions. Multiscale Modeling and Simulation, 2007, 6, 879-894.                            | 0.6  | 106       |
| 72 | Super-resolution image restoration by maximum likelihood method and edge-oriented diffusion. , 2007, , .   |      | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Phase retrieval from noisy data based on minimization of penalized I-divergence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 34.                | 0.8 | 12        |
| 74 | A Primal-Dual Active-Set Method for Non-Negativity Constrained Total Variation Deblurring Problems. IEEE Transactions on Image Processing, 2007, 16, 2766-2777.                                  | 6.0 | 35        |
| 75 | Multi-Parameter Regularization Methods for High-Resolution Image Reconstruction With Displacement Errors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1788-1799. | 0.1 | 28        |
| 76 | Image restoration using L1 norm penalty function. Inverse Problems in Science and Engineering, 2007, 15, 785-809.  | 1.2 | 27        |
| 77 | On Multigrids for Solving a Class of Improved Total Variation Based Staircasing Reduction Models. Mathematics and Visualization, 2007, , 69-94.  | 0.4 | 8         |
| 78 | Nonlinear Multilevel Schemes for Solving the Total Variation Image Minimization Problem. Mathematics and Visualization, 2007, , 265-288.   | 0.4 | 8         |
| 79 | Total Variation Based Image Registration. Mathematics and Visualization, 2007, , 343-361.  | 0.4 | 7         |
| 80 | On the numerical simulation of Bingham visco-plastic flow: Old and new results. Journal of Non-Newtonian Fluid Mechanics, 2007, 142, 36-62.  | 1.0 | 131       |
| 81 | How to discretize the Total Variation of an image?. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1041907-1041908.  | 0.2 | 16        |
| 82 | Fast Global Minimization of the Active Contour/Snake Model. Journal of Mathematical Imaging and Vision, 2007, 28, 151-167.   | 0.8 | 763       |
| 83 | A Truncated Lagrange Method for Total Variation-Based Image Restoration. Journal of Mathematical Imaging and Vision, 2007, 28, 113-123.  | 0.8 | 5         |
| 84 | On Semismooth Newton's Methods for Total Variation Minimization. Journal of Mathematical Imaging and Vision, 2007, 27, 265-276.  | 0.8 | 75        |
| 85 | A Nonlinear Multigrid Method for Total Variation Minimization from Image Restoration. Journal of Scientific Computing, 2007, 33, 115-138.  | 1.1 | 34        |
| 86 | An accelerated algebraic multigrid algorithm for total-variation denoising. BIT Numerical Mathematics, 2007, 47, 277-296.  | 1.0 | 6         |
| 87 | Image decomposition combining staircase reduction and texture extraction. Journal of Visual Communication and Image Representation, 2007, 18, 464-486.   | 1.7 | 97        |
| 88 | The Lagrange method for the regularization of discrete ill-posed problems. Computational Optimization and Applications, 2008, 39, 347-368.   | 0.9 | 10        |
| 89 | A TV Based Restoration Model with Local Constraints. Journal of Scientific Computing, 2008, 34, 209-236.   | 1.1 | 59        |
| 90 | Multigrid based total variation image registration. Computing and Visualization in Science, 2008, 11, 101-113.   | 1.2 | 38        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Acceleration methods for image restoration problem with different boundary conditions. Applied Numerical Mathematics, 2008, 58, 602-614.                  | 1.2 | 29        |
| 92  | Fast and exact solution of Total Variation models on the GPU. , 2008, , .   |     | 21        |
| 93  | Signal-processing approaches for image-resolution restoration for TOMBO imagery. Applied Optics, 2008, 47, B104.  | 2.1 | 21        |
| 94  | A New Alternating Minimization Algorithm for Total Variation Image Reconstruction. SIAM Journal on Imaging Sciences, 2008, 1, 248-272.                    | 1.3 | 1,547     |
| 95  | A Primal-Dual Active Set Algorithm for Three-Dimensional Contact Problems with Coulomb Friction. SIAM Journal of Scientific Computing, 2008, 30, 572-596. | 1.3 | 145       |
| 96  | A Fast Total Variation Minimization Method for Image Restoration. Multiscale Modeling and Simulation, 2008, 7, 774-795.                                   | 0.6 | 188       |
| 97  | De-blurring algorithm for fish eye Image on CCTV with nonlinear equation. , 2008, , .   |     | 0         |
| 98  | MRI image segmentation based on fast global minimization of snake model. , 2008, , .  |     | 7         |
| 99  | A Convex Formulation of Continuous Multi-label Problems. Lecture Notes in Computer Science, 2008, , 792-805.  | 1.0 | 102       |
| 100 | Electrical Impedance Tomography reconstruction using $\ell_1/\ell_2$ norms for data and image terms. , 2008, 2008, 2721-4.                                |     | 5         |
| 101 | Fast dual minimization of the vectorial total variation norm and applications to color image processing. Inverse Problems and Imaging, 2008, 2, 455-484.  | 0.6 | 304       |
| 102 | An Algorithm for Total Variation Inpainting Based on Nonlinear Multi-Grid Methods. Journal of Algorithms and Computational Technology, 2008, 2, 15-34.    | 0.4 | 0         |
| 103 | Image Restoration Based on Bi-Regularization and Split Bregman Iterations. , 2009, , .  |     | 0         |
| 104 | A Fast Algorithm for Variational Image Inpainting. , 2009, , .  |     | 0         |
| 105 | A Lattice Boltzmann Method for Image Denoising. IEEE Transactions on Image Processing, 2009, 18, 2797-2802.   | 6.0 | 28        |
| 106 | An Improved TV Model for Image Restoration. , 2009, , .   |     | 0         |
| 107 | Total variation projection with first order schemes. , 2009, , .  |     | 4         |
| 108 | A Compound Algorithm of Denoising Using Second-Order and Fourth-Order Partial Differential Equations. Numerical Mathematics, 2009, 2, 353-376.            | 0.6 | 29        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Iterative total variation schemes for nonlinear inverse problems. <i>Inverse Problems</i> , 2009, 25, 105004.  | 1.0 | 64        |
| 110 | Algorithmic strategies for full waveform inversion: 1D experiments. <i>Geophysics</i> , 2009, 74, WCC37-WCC46.   | 1.4 | 50        |
| 111 | Image Processing Techniques for Assessing Contractility in Isolated Adult Cardiac Myocytes. <i>International Journal of Biomedical Imaging</i> , 2009, 2009, 1-11.   | 3.0 | 19        |
| 112 | A primal-dual active-set algorithm for bilaterally constrained total variation deblurring and piecewise constant Mumford-Shah segmentation problems. <i>Advances in Computational Mathematics</i> , 2009, 31, 237-266. | 0.8 | 19        |
| 113 | FDG-PET parametric imaging by total variation minimization. <i>Computerized Medical Imaging and Graphics</i> , 2009, 33, 295-303.  | 3.5 | 17        |
| 114 | On a class of ill-posed minimization problems in image processing. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 380-399.  | 0.5 | 12        |
| 115 | Robust Solvers for Inverse Imaging Problems Using Dense Single-Precision Hardware. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 33, 105-120.  | 0.8 | 1         |
| 116 | Convex Hodge Decomposition and Regularization of Image Flows. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 33, 169-177.   | 0.8 | 21        |
| 117 | Some First-Order Algorithms for Total Variation Based Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 34, 307-327.  | 0.8 | 119       |
| 118 | On Nonmonotone Chambolle Gradient Projection Algorithms for Total Variation Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 35, 143-154.  | 0.8 | 28        |
| 119 | A method based on rank-ordered filter to detect edges in cellular image. <i>Pattern Recognition Letters</i> , 2009, 30, 634-640.   | 2.6 | 19        |
| 120 | Convergence of a fixed point iteration method for the OSV model. <i>Applied Mathematics and Computation</i> , 2009, 215, 1780-1790.  | 1.4 | 2         |
| 121 | An Algorithm for image removals and decompositions without inverse matrices. <i>Journal of Computational and Applied Mathematics</i> , 2009, 225, 428-439.   | 1.1 | 5         |
| 122 | Fast Gradient-Based Algorithms for Constrained Total Variation Image Denoising and Deblurring Problems. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 2419-2434.  | 6.0 | 1,693     |
| 123 | Selection of regularization parameter in total variation image restoration. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 2311.                                 | 0.8 | 74        |
| 124 | Incoherently combining logarithmic aspheric lenses for extended depth of field. <i>Applied Optics</i> , 2009, 48, 5371.  | 2.1 | 10        |
| 125 | Shearlet-Based Total Variation Diffusion for Denoising. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 260-268.  | 6.0 | 188       |
| 126 | Efficient Minimization Method for a Generalized Total Variation Functional. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 322-332.  | 6.0 | 200       |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Total variation restoration of speckled images using a split-bregman algorithm. , 2009, , .  |     | 28        |
| 128 | Extending continuous cuts: Anisotropic metrics and expansion moves. , 2009, , .  |     | 14        |
| 129 | Deconvolution of Poissonian images using variable splitting and augmented Lagrangian optimization. , 2009, , .   |     | 32        |
| 130 | A novel PSO-based parameter estimation for total variation regularization. , 2009, , .   |     | 4         |
| 131 | A convex relaxation approach for computing minimal partitions. , 2009, , .   |     | 165       |
| 132 | Can the Nonlocal Characterization of Sobolev Spaces by Bourgain et al. Be Useful for Solving Variational Problems?. SIAM Journal on Numerical Analysis, 2009, 47, 844-860. | 1.1 | 43        |
| 133 | Efficient Schemes for Total Variation Minimization Under Constraints in Image Processing. SIAM Journal of Scientific Computing, 2009, 31, 2047-2080.                       | 1.3 | 141       |
| 134 | An Efficient Primal-Dual Method for $L^1$ TV Image Restoration. SIAM Journal on Imaging Sciences, 2009, 2, 1168-1189.  | 1.3 | 79        |
| 135 | The Split Bregman Method for L1-Regularized Problems. SIAM Journal on Imaging Sciences, 2009, 2, 323-343.  | 1.3 | 3,484     |
| 136 | Analogue of the Total Variation Denoising Model in the Context of Geometry Processing. Multiscale Modeling and Simulation, 2009, 7, 1549-1573.                             | 0.6 | 45        |
| 137 | Constraint Preconditioners for Symmetric Indefinite Matrices. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 410-433.   | 0.7 | 140       |
| 138 | Gradient-based algorithms with applications to signal-recovery problems. , 2009, , 42-88.  |     | 181       |
| 139 | A general variational model for multiplicative noise removal and its split Bregman algorithm. , 2010, , .  |     | 5         |
| 140 | Regularization and full-waveform inversion: A two-step approach. , 2010, , .   |     | 15        |
| 141 | Total variation restoration of the defocus image based on spectral priors. , 2010, , .   |     | 3         |
| 142 | A convergent overlapping domain decomposition method for total variation minimization. Numerische Mathematik, 2010, 116, 645-685.  | 0.9 | 38        |
| 143 | A two-step model for image denoising using a duality strategy and surface fitting. Journal of Computational and Applied Mathematics, 2010, 235, 82-90.                     | 1.1 | 4         |
| 144 | New model for image restoration with different boundary conditions. Acta Mathematicae Applicatae Sinica, 2010, 26, 369-380.  | 0.4 | 1         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 145 | Geometric Applications of the Split Bregman Method: Segmentation and Surface Reconstruction. <i>Journal of Scientific Computing</i> , 2010, 45, 272-293.                                | 1.1  | 353       |
| 146 | Stopping Criteria for Anisotropic PDEs in Image Processing. <i>Journal of Scientific Computing</i> , 2010, 45, 333-347.   | 1.1  | 11        |
| 147 | Numerical Methods for the Vector-Valued Solutions of Non-smooth Eigenvalue Problems. <i>Journal of Scientific Computing</i> , 2010, 45, 64-89.  | 1.1  | 3         |
| 148 | Duality-based algorithms for total-variation-regularized image restoration. <i>Computational Optimization and Applications</i> , 2010, 47, 377-400.                                     | 0.9  | 121       |
| 149 | On Variational Curve Smoothing and Reconstruction. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 37, 183-203.   | 0.8  | 4         |
| 150 | Mathematical Modeling of Textures: Application to Color Image Decomposition with a Projected Gradient Algorithm. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 37, 232-248. | 0.8  | 41        |
| 151 | An Augmented Lagrangian Method for TV $g + L_1$ -norm Minimization. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 38, 182-196.  | 0.8  | 17        |
| 152 | Dualization of Signal Recovery Problems. <i>Set-Valued and Variational Analysis</i> , 2010, 18, 373-404.  | 0.5  | 70        |
| 153 | Adaptive Variational Method for Restoring Color Images with High Density Impulse Noise. <i>International Journal of Computer Vision</i> , 2010, 90, 131-149.                            | 10.9 | 18        |
| 154 | Total Variation for Image Restoration with Smooth Area Protection. <i>Journal of Signal Processing Systems</i> , 2010, 61, 271-277.   | 1.4  | 3         |
| 155 | Algorithms and software for total variation image reconstruction via first-order methods. <i>Numerical Algorithms</i> , 2010, 53, 67-92.  | 1.1  | 184       |
| 156 | Split Bregman iteration algorithm for total bounded variation regularization based image deblurring. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 372, 486-495.     | 0.5  | 44        |
| 157 | A class of nonlinear parabolic-hyperbolic equations applied to image restoration. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 253-261.                               | 0.9  | 26        |
| 158 | Weighted and extended total variation for image restoration and decomposition. <i>Pattern Recognition</i> , 2010, 43, 1564-1576.  | 5.1  | 31        |
| 159 | A New Variational Model for Segmenting Objects of Interest from Color Images. <i>Mathematical Problems in Engineering</i> , 2010, 2010, 1-15.   | 0.6  | 1         |
| 160 | A General Framework for a Class of First Order Primal-Dual Algorithms for Convex Optimization in Imaging Science. <i>SIAM Journal on Imaging Sciences</i> , 2010, 3, 1015-1046.         | 1.3  | 496       |
| 161 | Total-variation regularization with bound constraints. , 2010, , .  |      | 9         |
| 162 | Multiplicative updates algorithm to minimize the generalized total variation functional with a non-negativity constraint. , 2010, , .   |      | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Split Bregman Algorithm of TV-L1 Model for Image Diffusion. , 2010, , .   |     | 0         |
| 164 | The Mathematical Programming Problem of Total Variation Image Denoising Model. , 2010, , .  |     | 0         |
| 165 | The Generalized MTV-L1 Models and Their Split Bregman Algorithms for Noise Removal of Color Images with Textures. , 2010, , .   |     | 0         |
| 166 | An approach to vectorial total variation based on geometric measure theory. , 2010, , .   |     | 28        |
| 167 | A Partial Regularity Result for the Combined Total Variation Functional for Image Restoration. , 2010, , .  |     | 0         |
| 168 | Regularization in Inverse Lithography: Enhancing Manufacturability and Robustness to Process Variations. ECS Transactions, 2010, 27, 427-432.                                   | 0.3 | 0         |
| 169 | Adaptive total variation model for image denoising based on modified orientation information measure. , 2010, , .   |     | 2         |
| 170 | A New Image Restoration Model Based on the Adaptive Total Variation. , 2010, , .  |     | 4         |
| 171 | Total Variation Methods for Three Dimensional Lidar Image Denoising. Photogrammetric Engineering and Remote Sensing, 2010, 76, 1365-1371.                                       | 0.3 | 2         |
| 172 | Fast splitting algorithm for multiframe total variation blind video deconvolution. Applied Optics, 2010, 49, 2761.  | 2.1 | 8         |
| 173 | Numerical Analysis of a Steepest-Descent PDE Model for Surface Relaxation below the Roughening Temperature. SIAM Journal on Numerical Analysis, 2010, 48, 1781-1800.            | 1.1 | 20        |
| 174 | Solving Constrained Total-variation Image Restoration and Reconstruction Problems via Alternating Direction Methods. SIAM Journal of Scientific Computing, 2010, 32, 2710-2736. | 1.3 | 206       |
| 175 | A Multilevel Algorithm for Simultaneously Denoising and Deblurring Images. SIAM Journal of Scientific Computing, 2010, 32, 1043-1063.   | 1.3 | 21        |
| 176 | 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       |
| 177 | Split Bregman Methods and Frame Based Image Restoration. Multiscale Modeling and Simulation, 2010, 8, 337-369.  | 0.6 | 531       |
| 178 | Multiplicative Noise Removal Using Variable Splitting and Constrained Optimization. IEEE Transactions on Image Processing, 2010, 19, 1720-1730.                                 | 6.0 | 276       |
| 179 | Restoration of Poissonian Images Using Alternating Direction Optimization. IEEE Transactions on Image Processing, 2010, 19, 3133-3145.  | 6.0 | 343       |
| 180 | Total variational image denoising. Influence of noise distribution: Comparison analysis. , 2010, , .  |     | 1         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Total Generalized Variation. SIAM Journal on Imaging Sciences, 2010, 3, 492-526.   | 1.3 | 1,187     |
| 182 | Selecting reliable sensors via convex optimization. , 2010, , .  |     | 7         |
| 183 | A Regularization Parameter for Nonsmooth Tikhonov Regularization. SIAM Journal of Scientific Computing, 2011, 33, 1415-1438.                         | 1.3 | 48        |
| 184 | Dual constrained TV-based regularization. , 2011, , .  |     | 0         |
| 185 | Pretreatment on Initial Value of Image Restoration Models with Different Boundary Conditions. , 2011, , .  |     | 0         |
| 186 | Three kinds of color total-variation semi-norms and its application to color-image denoising. , 2011, , .  |     | 2         |
| 187 | Construction of local nonlinear filter without staircase effect in image restoration. Applicable Analysis, 2011, 90, 1257-1273.                      | 0.6 | 5         |
| 188 | A Fast Algorithm for Euler's Elastica Model Using Augmented Lagrangian Method. SIAM Journal on Imaging Sciences, 2011, 4, 313-344.                   | 1.3 | 147       |
| 189 | An Augmented Lagrangian Method for Total Variation Video Restoration. IEEE Transactions on Image Processing, 2011, 20, 3097-3111.                    | 6.0 | 481       |
| 190 | Error Bounds for Finite-Difference Methods for Rudin's Osher's Fatemi Image Smoothing. SIAM Journal on Numerical Analysis, 2011, 49, 845-868.        | 1.1 | 32        |
| 191 | A Fourth-Order Variational Image Registration Model and Its Fast Multigrid Algorithm. Multiscale Modeling and Simulation, 2011, 9, 89-128.           | 0.6 | 48        |
| 192 | Efficient Dual Algorithms for Image Segmentation Using TV-Allen-Cahn Type Models. Communications in Computational Physics, 2011, 9, 859-877.         | 0.7 | 10        |
| 193 | Regularity for solutions of the total variation denoising problem. Revista Matemática Iberoamericana, 2011, 27, 233-252.                             | 0.4 | 33        |
| 194 | Selection of regularization parameter based on synchronous noise in total variation image restoration. , 2011, , .                                   |     | 0         |
| 196 | Total Variation Projection With First Order Schemes. IEEE Transactions on Image Processing, 2011, 20, 657-669.                                       | 6.0 | 78        |
| 197 | Dequantizing Compressed Sensing: When Oversampling and Non-Gaussian Constraints Combine. IEEE Transactions on Information Theory, 2011, 57, 559-571. | 1.5 | 202       |
| 198 | A total variation based approach to correcting surface coil magnetic resonance images. Applied Mathematics and Computation, 2011, 218, 219-232.      | 1.4 | 5         |
| 199 | A primal-dual gradient method for image decomposition based on $(BV, H^1)$ . Multidimensional Systems and Signal Processing, 2011, 22, 335-348.      | 1.7 | 1         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 200 | An Anisotropic Fourth-Order Diffusion Filter for Image Noise Removal. <i>International Journal of Computer Vision</i> , 2011, 92, 177-191.                                       | 10.9 | 128       |
| 201 | New time dependent pretreat models based on total variational image restoration. <i>Acta Mathematicae Applicatae Sinica</i> , 2011, 27, 129-140.                                 | 0.4  | 1         |
| 202 | A projected gradient algorithm based on the augmented Lagrangian strategy for image restoration and texture extraction. <i>Image and Vision Computing</i> , 2011, 29, 117-126.   | 2.7  | 12        |
| 203 | Restoration of images based on subspace optimization accelerating augmented Lagrangian approach. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 2766-2774. | 1.1  | 5         |
| 204 | A mixed formulation of the Bingham fluid flow problem: Analysis and numerical solution. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 2434-2446.     | 3.4  | 19        |
| 205 | Split Bregman method for the modified lot model in image denoising. <i>Applied Mathematics and Computation</i> , 2011, 217, 5392-5403.   | 1.4  | 7         |
| 206 | Image restoration under mixed noise using globally convex segmentation. <i>Journal of Visual Communication and Image Representation</i> , 2011, 22, 263-270.                     | 1.7  | 10        |
| 207 | On a reaction-diffusion system applied to image decomposition and restoration. <i>Mathematical and Computer Modelling</i> , 2011, 53, 1336-1350.                                 | 2.0  | 36        |
| 208 | Fast optimization for multichannel total variation minimization with non-quadratic fidelity. <i>Signal Processing</i> , 2011, 91, 1933-1940.                                     | 2.1  | 4         |
| 209 | Information divergence constrained total variation minimization for positron emission tomography image reconstruction. , 2011, , .   |      | 2         |
| 210 | Continuous Primal-Dual Methods for Image Processing. <i>SIAM Journal on Imaging Sciences</i> , 2011, 4, 366-385.   | 1.3  | 1         |
| 211 | A fourth order partial differential equation model from the Weber's total variation for image restoration. , 2011, , .   |      | 1         |
| 212 | An alternating extragradient method for total variation-based image restoration from Poisson data. <i>Inverse Problems</i> , 2011, 27, 095001.                                   | 1.0  | 51        |
| 213 | Variationally consistent discretization schemes and numerical algorithms for contact problems. <i>Acta Numerica</i> , 2011, 20, 569-734.   | 6.3  | 157       |
| 214 | A novel variational model for multiplicative noise removal by combining nonlocal and weberized total variation regularizations. , 2011, , .                                      |      | 2         |
| 215 | Proximity algorithms for image models: denoising. <i>Inverse Problems</i> , 2011, 27, 045009.  | 1.0  | 188       |
| 216 | On a generalization of the iterative soft-thresholding algorithm for the case of non-separable penalty. <i>Inverse Problems</i> , 2011, 27, 125007.                              | 1.0  | 86        |
| 217 | On the Numerical Simulation of Viscoplastic Fluid Flow. <i>Handbook of Numerical Analysis</i> , 2011, 16, 483-717.   | 0.9  | 71        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 218 | Homotopy Curve Tracking for Total Variation Image Restoration. <i>Journal of Computational Mathematics</i> , 2012, 30, 177-196.  | 0.2 | 6         |
| 219 | Edge-preserving seismic imaging using the total variation method. <i>Journal of Geophysics and Engineering</i> , 2012, 9, 138-146.   | 0.7 | 65        |
| 220 | Image restoration: Total variation, wavelet frames, and beyond. <i>Journal of the American Mathematical Society</i> , 2012, 25, 1033-1089.                                 | 1.9 | 259       |
| 221 | Fast Algorithms for Image Reconstruction with Application to Partially Parallel MR Imaging. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 90-118.                     | 1.3 | 48        |
| 222 | Active contours without level sets. , 2012, , .  |     | 5         |
| 223 | The Natural Vectorial Total Variation Which Arises from Geometric Measure Theory. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 537-563.                              | 1.3 | 98        |
| 224 | An Iterative Lagrange Multiplier Method for Constrained Total-Variation-Based Image Denoising. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 983-1003.             | 1.1 | 26        |
| 225 | A new algorithm for total variation based image denoising. <i>Acta Mathematicae Applicatae Sinica</i> , 2012, 28, 721-730.   | 0.4 | 1         |
| 226 | Optimization of mixed variational inequalities arising in flow of viscoplastic materials. <i>Computational Optimization and Applications</i> , 2012, 52, 757-784.          | 0.9 | 18        |
| 227 | On the Convergence of Primal-Dual Hybrid Gradient Algorithms for Total Variation Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2012, 44, 236-253. | 0.8 | 67        |
| 228 | Real-time parallel spatial video denoising schemes on multi-core processors. , 2012, , .   |     | 1         |
| 229 | Robust optical flow estimation for illumination changes. , 2012, , .   |     | 0         |
| 230 | Fully automated 3D colon segmentation for early detection of colorectal cancer based on convex formulation of the active contour model. , 2012, , .                        |     | 6         |
| 231 | The Combination Model and Algorithm for Image Denoising. , 2012, , .   |     | 0         |
| 232 | Random noise reduction using Bayesian inversion. <i>Journal of Geophysics and Engineering</i> , 2012, 9, 60-68.  | 0.7 | 40        |
| 233 | Efficient Algorithm for Nonconvex Minimization and Its Application to PM Regularization. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 4322-4333.               | 6.0 | 2         |
| 234 | Convergence Analysis of Primal-Dual Algorithms for a Saddle-Point Problem: From Contraction Perspective. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 119-149.       | 1.3 | 243       |
| 235 | A time-dependent switching anisotropic diffusion model for denoising and deblurring images. <i>Journal of Modern Optics</i> , 2012, 59, 140-156.                           | 0.6 | 7         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 254 | An improved regularization method for artifact rejection in image super-resolution. Signal, Image and Video Processing, 2012, 6, 125-140.   | 1.7 | 9         |
| 255 | Augmented Lagrangian Method for Total Variation Based Image Restoration and Segmentation Over Triangulated Surfaces. Journal of Scientific Computing, 2012, 50, 145-166.                                  | 1.1 | 39        |
| 256 | Finite element analysis of geometrically necessary dislocations in crystal plasticity. International Journal for Numerical Methods in Engineering, 2013, 93, 66-79.                                       | 1.5 | 24        |
| 257 | A Splitting Algorithm for Image Segmentation on Manifolds Represented by the Grid Based Particle Method. Journal of Scientific Computing, 2013, 56, 243-266.  | 1.1 | 9         |
| 258 | Variational segmentation model for images with intensity inhomogeneity and Poisson noise. Eurasip Journal on Image and Video Processing, 2013, 2013, .  | 1.7 | 5         |
| 259 | Nonlinear multigrid method for solving the anisotropic image denoising models. Numerical Algorithms, 2013, 63, 291-315.   | 1.1 | 4         |
| 260 | Nonconvex TV <sup>q</sup> -Models in Image Restoration: Analysis and a Trust-Region Regularization--Based Superlinearly Convergent Solver. SIAM Journal on Imaging Sciences, 2013, 6, 1385-1415.          | 1.3 | 65        |
| 261 | Linear convergence analysis of the use of gradient projection methods on total variation problems. Computational Optimization and Applications, 2013, 54, 283-315.  | 0.9 | 4         |
| 262 | Enhanced Compressed Sensing Recovery With Level Set Normals. IEEE Transactions on Image Processing, 2013, 22, 2611-2626.  | 6.0 | 68        |
| 263 | A Variational Framework for Region-Based Segmentation Incorporating Physical Noise Models. Journal of Mathematical Imaging and Vision, 2013, 47, 179-209.   | 0.8 | 32        |
| 264 | Image Segmentation Using a Local GMM in a Variational Framework. Journal of Mathematical Imaging and Vision, 2013, 46, 161-176.   | 0.8 | 31        |
| 265 | 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         |
| 266 | Optimization in learning and data analysis. , 2013, , .   |     | 0         |
| 267 | 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        |
| 268 | A Bilevel Optimization Approach for Parameter Learning in Variational Models. SIAM Journal on Imaging Sciences, 2013, 6, 938-983.   | 1.3 | 131       |
| 269 | A new variational model for removal of combined additive and multiplicative noise and a fast algorithm for its numerical approximation. International Journal of Computer Mathematics, 2013, 90, 140-161. | 1.0 | 24        |
| 270 | Adaptive regularization for color image restoration using discrepancy principle. , 2013, , .  |     | 3         |
| 271 | TV-L1 Optimization for B-Spline Surface Reconstruction with Sharp Features. , 2013, , .   |     | 1         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 272 | Nonlinear Multilayered Representation of Graph-Signals. Journal of Mathematical Imaging and Vision, 2013, 45, 114-137.   | 0.8  | 22        |
| 273 | Bregmanized Domain Decomposition for Image Restoration. Journal of Scientific Computing, 2013, 54, 549-576.  | 1.1  | 17        |
| 274 | Robust and Efficient Implicit Surface Reconstruction for Point Clouds Based on Convexified Image Segmentation. Journal of Scientific Computing, 2013, 54, 577-602.         | 1.1  | 27        |
| 275 | Restoration of multispectral images by total variation with auxiliary image. Optics and Lasers in Engineering, 2013, 51, 873-882.  | 2.0  | 17        |
| 276 | Maximum efficiency for a family of Newton-like methods with frozen derivatives and some applications. Applied Mathematics and Computation, 2013, 219, 7954-7963.           | 1.4  | 24        |
| 277 | An effective method for solving nonlinear equations and its application. Applied Mathematics and Computation, 2013, 220, 568-579.  | 1.4  | 2         |
| 278 | Nonlinear multigrid method for solving the LLT model. Applied Mathematics and Computation, 2013, 219, 4964-4976.   | 1.4  | 9         |
| 279 | High density print circuit board line width measurement algorithm based on statistical process control theory. Optik, 2013, 124, 4472-4476.                                | 1.4  | 3         |
| 280 | Variational structure of texture image decomposition on manifolds. Signal Processing, 2013, 93, 1773-1784.   | 2.1  | 6         |
| 281 | Inverse electrocardiographic source localization of ischemia: An optimization framework and finite element solution. Journal of Computational Physics, 2013, 250, 403-424. | 1.9  | 72        |
| 282 | Image restoration with a high-order total variation minimization method. Applied Mathematical Modelling, 2013, 37, 8210-8224.  | 2.2  | 73        |
| 283 | A variational method for multisource remote-sensing image fusion. International Journal of Remote Sensing, 2013, 34, 2470-2486.  | 1.3  | 14        |
| 284 | Active contour model for simultaneous MR image segmentation and denoising. , 2013, 23, 1186-1196.  |      | 15        |
| 285 | A Bayesian approach to visualization-oriented hyperspectral image fusion. Information Fusion, 2013, 14, 349-360.   | 11.7 | 15        |
| 286 | Eigenvalue estimates for saddle point matrices of Hermitian and indefinite leading blocks. Journal of Computational and Applied Mathematics, 2013, 237, 295-306.           | 1.1  | 53        |
| 287 | A convex relaxation method for computing exact global solutions for multiplicative noise removal. Journal of Computational and Applied Mathematics, 2013, 238, 144-155.    | 1.1  | 2         |
| 288 | A new model for segmentation of gray-scale and color images. Journal of Inequalities and Applications, 2013, 2013, 556.  | 0.5  | 0         |
| 289 | An Efficient Variational Method for Image Restoration. Abstract and Applied Analysis, 2013, 2013, 1-11.  | 0.3  | 3         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 290 | Stroke-Based Surface Reconstruction. Numerical Mathematics, 2013, 6, 297-324.  | 0.6 | 2         |
| 291 | Efficient Box-Constrained TV-Type- $l_1$ Algorithms for Restoring Images with Impulse Noise. Journal of Computational Mathematics, 2013, 31, 249-270.  | 0.2 | 24        |
| 292 | Finite element based inversion for time-harmonic electromagnetic problems. Geophysical Journal International, 2013, 193, 615-634.  | 1.0 | 88        |
| 293 | Poissonian image reconstruction using alternating direction algorithm. Journal of Electronic Imaging, 2013, 22, 033007.  | 0.5 | 8         |
| 294 | Augmented Lagrangian Methods for $p$ -Harmonic Flows with the Generalized Penalization Terms and Application to Image Processing. Numerical Mathematics, 2013, 6, 1-20.  | 0.6 | 3         |
| 295 | A Fast Augmented Lagrangian Method for Euler's Elastica Models. Numerical Mathematics, 2013, 6, 47-71.   | 0.6 | 21        |
| 296 | Efficient Algorithm for Isotropic and Anisotropic Total Variation Deblurring and Denoising. Journal of Applied Mathematics, 2013, 2013, 1-14.  | 0.4 | 16        |
| 297 | Recovering Over-/Underexposed Regions in Photographs. SIAM Journal on Imaging Sciences, 2013, 6, 2213-2235.  | 1.3 | 19        |
| 298 | A weighted dual porous medium equation applied to image restoration. Mathematical Methods in the Applied Sciences, 2013, 36, 2117-2127.  | 1.2 | 2         |
| 299 | Regularized Nonlinear Solvers for IMEX Methods Applied to Diffusively Corrected Multispecies Kinematic Flow Models. SIAM Journal of Scientific Computing, 2013, 35, B751-B777.                                 | 1.3 | 16        |
| 300 | Compressed sensing MRI with Bayesian dictionary learning. , 2013, , .  |     | 4         |
| 301 | An enhanced approach for simultaneous image reconstruction and sensitivity map estimation in partially parallel imaging. , 2013, , .   |     | 1         |
| 302 | Dual Constrained TV-based Regularization on Graphs. SIAM Journal on Imaging Sciences, 2013, 6, 1246-1273.  | 1.3 | 49        |
| 303 | Bounded Labeling Function for Global Segmentation of Multi-part Objects with Geometric Constraints. , 2013, , .  |     | 7         |
| 304 | Subspace Correction Methods for a Class of Nonsmooth and Nonadditive Convex Variational Problems with Mixed $L^1/L^2$ Data-Fidelity in Image Processing. SIAM Journal on Imaging Sciences, 2013, 6, 2134-2173. | 1.3 | 47        |
| 305 | Total Variation Regularization Algorithms for Images Corrupted with Different Noise Models: A Review. Journal of Electrical and Computer Engineering, 2013, 2013, 1-18.  | 0.6 | 51        |
| 306 | Time-Optimized High-Resolution Readout-Segmented Diffusion Tensor Imaging. PLoS ONE, 2013, 8, e74156.  | 1.1 | 3         |
| 307 | An Algorithm for the Proximity Operator in Hybrid TV-Wavelet Regularization, with Application to MR Image Reconstruction. East Asian Journal on Applied Mathematics, 2014, 4, 21-34.                           | 0.4 | 1         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 308 | Numerical Methods and Applications in Total Variation Image Restoration. , 2014, , 1-34.   |     | 0         |
| 309 | Duality and Convex Programming. , 2014, , 1-44.  |     | 0         |
| 310 | Functional-analytic and numerical issues in splitting methods for total variation-based image reconstruction. Inverse Problems, 2014, 30, 055014.                | 1.0 | 20        |
| 311 | Shakedown Analysis of Framed Structures: Strong Duality and Primal-dual Analysis. Procedia Engineering, 2014, 79, 204-211.                                       | 1.2 | 1         |
| 312 | A restarted iterative homotopy analysis method for two nonlinear models from image processing. International Journal of Computer Mathematics, 2014, 91, 661-687. | 1.0 | 11        |
| 313 | Multi-Array Camera Disparity Enhancement. IEEE Transactions on Multimedia, 2014, 16, 2168-2177.  | 5.2 | 10        |
| 314 | Image restoration with Poissonâ€“Gaussian mixed noise. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2014, 2, 12-24.   | 1.3 | 16        |
| 315 | Regularized sparse representation for image deconvolution. Inverse Problems in Science and Engineering, 2014, 22, 924-939.                                       | 1.2 | 0         |
| 316 | Wavelet Frame Based Algorithm for 3D Reconstruction in Electron Microscopy. SIAM Journal of Scientific Computing, 2014, 36, B45-B69.                             | 1.3 | 19        |
| 317 | Detection of gravity field source boundaries using deconvolution method. Geophysical Journal International, 2014, 199, 1527-1543.                                | 1.0 | 2         |
| 318 | LIDAR image recovery by incorporating heterogeneous imaging modalities. Proceedings of SPIE, 2014, , .   | 0.8 | 1         |
| 319 | Fast Total-Variation Image Deconvolution with Adaptive Parameter Estimation via Split Bregman Method. Mathematical Problems in Engineering, 2014, 2014, 1-9.     | 0.6 | 8         |
| 320 | An Iterative Scheme for Total Variation-Based Image Denoising. Journal of Scientific Computing, 2014, 58, 648-671.   | 1.1 | 3         |
| 321 | A modified spectral conjugate gradient projection algorithm for total variation image restoration. Applied Mathematics Letters, 2014, 27, 26-35.                 | 1.5 | 10        |
| 322 | A nonlinear level set model for image deblurring and denoising. Visual Computer, 2014, 30, 311-325.  | 2.5 | 11        |
| 323 | On a family of high-order iterative methods under gamma conditions with applications in denoising. Numerische Mathematik, 2014, 127, 201-221.                    | 0.9 | 3         |
| 324 | A new nonlocal total variation regularization algorithm for image denoising. Mathematics and Computers in Simulation, 2014, 97, 224-233.                         | 2.4 | 81        |
| 325 | Image Deblurring Via Combined Total Variation and Framelet. Circuits, Systems, and Signal Processing, 2014, 33, 1899-1916.                                       | 1.2 | 12        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 326 | Efficient schemes for joint isotropic and anisotropic total variation minimization for deblurring images corrupted by impulsive noise. Computers and Graphics, 2014, 38, 108-116.     | 1.4 | 2         |
| 327 | Parallel domain decomposition based algorithm for large scale color image denoising. , 2014, , .  |     | 0         |
| 328 | Primal-Dual Decomposition by Operator Splitting and Applications to Image Deblurring. SIAM Journal on Imaging Sciences, 2014, 7, 1724-1754.   | 1.3 | 46        |
| 329 | Geophysical Imaging of Fluid Flow in Porous Media. SIAM Journal of Scientific Computing, 2014, 36, S218-S236.   | 1.3 | 6         |
| 330 | Total Variation-Stokes Strategy for Sparse-View X-ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 749-763.   | 5.4 | 91        |
| 331 | A class of accelerated Uzawa algorithms for saddle point problems. Applied Mathematics and Computation, 2014, 247, 244-254.   | 1.4 | 8         |
| 333 | Optimal selection of regularization parameter in total variation method for reducing noise in magnetic resonance images of the brain. Biomedical Engineering Letters, 2014, 4, 80-92. | 2.1 | 5         |
| 334 | Surface Reconstruction From Microscopic Images in Optical Lithography. IEEE Transactions on Image Processing, 2014, 23, 3560-3573.  | 6.0 | 8         |
| 335 | An augmented Lagrangian algorithm for total bounded variation regularization based image deblurring. Journal of the Franklin Institute, 2014, 351, 3053-3067.                         | 1.9 | 7         |
| 336 | Domain decomposition method for image deblurring. Journal of Computational and Applied Mathematics, 2014, 271, 401-414.   | 1.1 | 15        |
| 337 | An alternating iterative algorithm for image deblurring and denoising problems. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 617-626.                      | 1.7 | 15        |
| 338 | A Two-Stage Image Segmentation Method for Blurry Images with Poisson or Multiplicative Gamma Noise. SIAM Journal on Imaging Sciences, 2014, 7, 98-127.                                | 1.3 | 58        |
| 339 | A nonmonotone adaptive projected gradient method for primal-dual total variation image restoration. Signal Processing, 2014, 103, 242-249.  | 2.1 | 8         |
| 340 | A relaxed fixed point method for a mean curvature-based denoising model. Optimization Methods and Software, 2014, 29, 274-285.  | 1.6 | 12        |
| 341 | A linearly convergent first-order algorithm for total variation minimisation in image processing. International Journal of Bioinformatics Research and Applications, 2014, 10, 4.     | 0.1 | 1         |
| 342 | A novel approach for denoising coloured remote sensing image using Legendre Fenchel Transformation. , 2014, , .   |     | 7         |
| 343 | A New Newton Method for Anisotropic Diffusion Model in Image Denoising. , 2015, , .   |     | 0         |
| 344 | A Total Variation Approach for Customizing Imagery to Improve Visual Acuity. ACM Transactions on Graphics, 2015, 34, 1-16.  | 4.9 | 13        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 345 | Image Denoising via Residual Kurtosis Minimization. Numerical Mathematics, 2015, 8, 406-424.   | 0.6 | 6         |
| 346 | Total variation deblurring algorithm extension in third-order tensor space. , 2015, , .  |     | 1         |
| 347 | An Image Defogging Approach Based on a Constrained Energy Functional under Bayesian and Variation Theories. Mathematical Problems in Engineering, 2015, 2015, 1-14.  | 0.6 | 0         |
| 348 | Nonlocal Speckle Denoising Model Based on Non-linear Partial Differential Equations. Advances in Intelligent Systems and Computing, 2015, , 165-176.   | 0.5 | 4         |
| 349 | A multi-parameter regularization model for image restoration. Signal Processing, 2015, 114, 131-142.   | 2.1 | 13        |
| 350 | &#x2113;&lt;inf&gt;0&lt;/inf&gt;TV: A new method for image restoration in the presence of impulse noise. , 2015, , .   |     | 13        |
| 351 | Optimal control of electrorheological fluids through the action of electric fields. Computational Optimization and Applications, 2015, 62, 241-270.  | 0.9 | 2         |
| 352 | A modified quasi-Newton diagonal update algorithm for total variation denoising problems and nonlinear monotone equations with applications in compressive sensing. Numerical Linear Algebra With Applications, 2015, 22, 500-522. | 0.9 | 5         |
| 353 | Edge-Preserving Image Denoising via Group Coordinate Descent on the GPU. IEEE Transactions on Image Processing, 2015, 24, 1273-1281.   | 6.0 | 19        |
| 354 | A Framework for Regularization via Operator Approximation. SIAM Journal of Scientific Computing, 2015, 37, B332-B359.  | 1.3 | 12        |
| 355 | Image deblurring associated with shearlet sparsity and weighted anisotropic total variation. Journal of Electronic Imaging, 2015, 24, 023001.  | 0.5 | 7         |
| 356 | Adaptive Regularization With the Structure Tensor. IEEE Transactions on Image Processing, 2015, 24, 1777-1790.   | 6.0 | 55        |
| 357 | Pan-sharpening of multi-spectral images using a new variational model. International Journal of Remote Sensing, 2015, 36, 1484-1508.   | 1.3 | 15        |
| 358 | 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        |
| 359 | Variational Approach for Restoring Blurred Images with Cauchy Noise. SIAM Journal on Imaging Sciences, 2015, 8, 1894-1922.   | 1.3 | 49        |
| 360 | Establishment of pre-processing station for denoising NOAA satellite images using Legendre Fenchel transformation method. , 2015, , .  |     | 1         |
| 361 | Polarimetric 3D integral imaging in photon-starved conditions. Optics Express, 2015, 23, 6408.   | 1.7 | 35        |
| 362 | X-ray computed tomography using curvelet sparse regularization. Medical Physics, 2015, 42, 1555-1565.  | 1.6 | 13        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 363 | Adaptive Box-Constrained Total Variation Image Restoration Using Iterative Regularization Parameter Adjustment Method. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1554003. | 0.7 | 6         |
| 364 | Directional denoising and line enhancement for device segmentation in real time fluoroscopic imaging. Proceedings of SPIE, 2015, , .  | 0.8 | 0         |
| 365 | Parallelization of a color-entropy preprocessed Chan-Vese model for face contour detection on multi-core CPU and GPU. Parallel Computing, 2015, 49, 28-49.  | 1.3 | 3         |
| 366 | A Preconditioner for A Primal-Dual Newton Conjugate Gradient Method for Compressed Sensing Problems. SIAM Journal of Scientific Computing, 2015, 37, A2783-A2812.   | 1.3 | 81        |
| 367 | Multi-step fixed-point proximity algorithms for solving a class of optimization problems arising from image processing. Advances in Computational Mathematics, 2015, 41, 387-422.                                   | 0.8 | 31        |
| 368 | Non-Overlapping Domain Decomposition Methods For Dual Total Variation Based Image Denoising. Journal of Scientific Computing, 2015, 62, 456-481.  | 1.1 | 23        |
| 369 | Preconditioning techniques for an image deblurring problem. Numerical Linear Algebra With Applications, 2016, 23, 570-584.  | 0.9 | 8         |
| 370 | Mathematical Methods in Image Processing and Computer Vision. SEMA SIMAI Springer Series, 2016, , 163-186.  | 0.4 | 0         |
| 371 | Iterative image reconstruction using non-local means with total variation from insufficient projection data. Journal of X-Ray Science and Technology, 2016, 24, 1-8.  | 0.7 | 12        |
| 372 | Primal-dual method to smoothing TV-based model for image denoising. Journal of Algorithms and Computational Technology, 2016, 10, 235-243.  | 0.4 | 11        |
| 373 | A New Method for Choosing the Regularization Parameter of ROF Total Variation Image Denoising. , 2016, , .  |     | 0         |
| 374 | Operator Splitting Methods in Compressive Sensing and Sparse Approximation. Scientific Computation, 2016, , 301-343.  | 0.2 | 1         |
| 375 | On the influence of spread constant in radial basis networks for electrical impedance tomography. Physiological Measurement, 2016, 37, 801-819.   | 1.2 | 8         |
| 376 | An introduction to continuous optimization for imaging. Acta Numerica, 2016, 25, 161-319.   | 6.3 | 331       |
| 377 | Compressed sensing for rapid late gadolinium enhanced imaging of the left atrium: A preliminary study. Magnetic Resonance Imaging, 2016, 34, 846-854.   | 1.0 | 20        |
| 378 | Discrete Calculus, Optimisation and Inverse Problems in Imaging. Lecture Notes in Computer Science, 2016, , 18-27.  | 1.0 | 1         |
| 379 | An Iterative Regularization Algorithm for the TV-Stokes in Image Processing. Lecture Notes in Computer Science, 2016, , 381-390.  | 1.0 | 0         |
| 380 | A simple primal-dual method for total variation image restoration. Journal of Visual Communication and Image Representation, 2016, 38, 814-823.   | 1.7 | 12        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 381 | On semi-convergence of ULT iterative method for the singular saddle point problems. Computers and Mathematics With Applications, 2016, 72, 1549-1555.                              | 1.4 | 1         |
| 382 | Reduction of speckle noise ultrasound images based on TV regularization and modified bayes shrink techniques. Optik, 2016, 127, 11732-11744.                                       | 1.4 | 16        |
| 383 | An identification approach to image deblurring. , 2016, , .  |     | 1         |
| 384 | Stability and Experimental Comparison of Prototypical Iterative Schemes for Total Variation Regularized Problems. Computational Methods in Applied Mathematics, 2016, 16, 361-388. | 0.4 | 8         |
| 385 | A robust image registration method based on total variation regularization under complex illumination changes. Computer Methods and Programs in Biomedicine, 2016, 134, 89-107.    | 2.6 | 9         |
| 386 | Multiresolution Parameter Choice Method for Total Variation Regularized Tomography. SIAM Journal on Imaging Sciences, 2016, 9, 938-974.  | 1.3 | 14        |
| 387 | A class of hyperbolic-parabolic coupled systems applied to image restoration. Boundary Value Problems, 2016, 2016, .   | 0.3 | 3         |
| 388 | A Dual-Based Adaptive Gradient Method for TV Image Denoising. Communications in Computer and Information Science, 2016, , 229-244.   | 0.4 | 0         |
| 389 | Adaptive tight frame based multiplicative noise removal. SpringerPlus, 2016, 5, 122.   | 1.2 | 3         |
| 390 | An accelerated version of alternating direction method of multipliers for TV minimization in EIT. Applied Mathematical Modelling, 2016, 40, 8985-9000.                             | 2.2 | 11        |
| 391 | <sc>MR</sc> imaging reconstruction using a modified descent-type alternating direction method. International Journal of Imaging Systems and Technology, 2016, 26, 43-54.           | 2.7 | 2         |
| 392 | An $O(1/k)$ Convergence Rate for the Variable Stepsize Bregman Operator Splitting Algorithm. SIAM Journal on Numerical Analysis, 2016, 54, 1535-1556.                              | 1.1 | 16        |
| 393 | A second-order method for strongly convex $\ell_1$ -regularization problems. Mathematical Programming, 2016, 156, 189-219.   | 1.6 | 30        |
| 394 | A fast higher degree total variation minimization method for image restoration. International Journal of Computer Mathematics, 2016, 93, 1383-1404.                                | 1.0 | 3         |
| 395 | Inexact alternating direction method based on proximity projection operator for image inpainting in wavelet domain. Neurocomputing, 2016, 189, 145-159.                            | 3.5 | 10        |
| 396 | A class of triangular splitting methods for saddle point problems. Journal of Computational and Applied Mathematics, 2016, 298, 13-23.   | 1.1 | 13        |
| 397 | Shapes From Pixels. IEEE Transactions on Image Processing, 2016, 25, 1193-1206.  | 6.0 | 75        |
| 398 | A destriping algorithm based on TV-Stokes and unidirectional total variation model. Optik, 2016, 127, 428-439.   | 1.4 | 13        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 399 | Energy minimization in medical image analysis: Methodologies and applications. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02733.   | 1.0  | 8         |
| 400 | Alternating minimization method for image restoration corrupted by impulse noise. Multimedia Tools and Applications, 2017, 76, 12505-12516.   | 2.6  | 9         |
| 401 | Nonlocal Gradient Sparsity Regularization for Image Restoration. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1909-1921.   | 5.6  | 58        |
| 402 | Accelerated Brain DCE-MRI Using Iterative Reconstruction With Total Generalized Variation Penalty for Quantitative Pharmacokinetic Analysis: A Feasibility Study. Technology in Cancer Research and Treatment, 2017, 16, 446-460. | 0.8  | 12        |
| 403 | TV-like regularization for backward parabolic problems. Mathematical Methods in the Applied Sciences, 2017, 40, 957-969.  | 1.2  | 3         |
| 404 | Computational methods for image reconstruction. NMR in Biomedicine, 2017, 30, e3545.  | 1.6  | 5         |
| 405 | Image reconstruction algorithms for electrical capacitance tomography based on ROF model using new numerical techniques. Measurement Science and Technology, 2017, 28, 035404.  | 1.4  | 20        |
| 406 | Graph Laplacian Regularization for Image Denoising: Analysis in the Continuous Domain. IEEE Transactions on Image Processing, 2017, 26, 1770-1785.  | 6.0  | 165       |
| 407 | Joint inpainting of depth and reflectance with visibility estimation. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 125, 16-32.   | 4.9  | 8         |
| 408 | Fast Linearized Augmented Lagrangian Method for Euler's Elastica Model. Numerical Mathematics, 2017, 10, 98-115.  | 0.6  | 26        |
| 409 | Primal-dual and forward gradient implementation for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2017, 78, 2416-2427.   | 1.9  | 5         |
| 410 | Multiscale Segmentation via Bregman Distances and Nonlinear Spectral Analysis. SIAM Journal on Imaging Sciences, 2017, 10, 111-146.   | 1.3  | 27        |
| 411 | Implicit surface reconstruction with total variation regularization. Computer Aided Geometric Design, 2017, 52-53, 135-153.   | 0.5  | 16        |
| 412 | Primal Domain Decomposition Methods for the Total Variation Minimization, Based on Dual Decomposition. SIAM Journal of Scientific Computing, 2017, 39, B403-B423.   | 1.3  | 13        |
| 413 | Automated parameter selection in the $\{L\}^1$ $\{L\}^2$ -TV model for removing Gaussian plus impulse noise. Inverse Problems, 2017, 33, 074002.  | 1.0  | 22        |
| 414 | Fast half-quadratic algorithm for image restoration and reconstruction. Applied Mathematical Modelling, 2017, 50, 92-104.   | 2.2  | 4         |
| 415 | Multidimensional Optical Sensing and Imaging System (MOSIS): From Macroscales to Microscales. Proceedings of the IEEE, 2017, 105, 850-875.  | 16.4 | 35        |
| 416 | A geometric approach for color image regularization. Computer Vision and Image Understanding, 2017, 165, 43-59.   | 3.0  | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 417 | Learning Non-Negativity Constrained Variation for Image Denoising and Deblurring. Numerical Mathematics, 2017, 10, 852-871.  | 0.6 | 4         |
| 418 | An improved total variation regularized SENSE reconstruction for MRI images. , 2017, , .   |     | 4         |
| 419 | An extraction method for digital camouflage texture based on human visual perception and isoperimetric theory. , 2017, , .   |     | 1         |
| 420 | Active Mean Fields for Probabilistic Image Segmentation: Connections with Chan–Vese and Rudin–Osher–Fatemi Models. SIAM Journal on Imaging Sciences, 2017, 10, 1069-1103.          | 1.3 | 3         |
| 421 | X-ray Computed Tomography using a Sparsity Enforcing Prior Model Based on Haar Transformation in a Bayesian Framework. Fundamenta Informaticae, 2017, 155, 449-480.                | 0.3 | 7         |
| 422 | Optimal Selection of the Regularization Function in a Weighted Total Variation Model. Part I: Modelling and Theory. Journal of Mathematical Imaging and Vision, 2017, 59, 498-514. | 0.8 | 34        |
| 423 | 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         |
| 424 | Automated Parameter Selection for Total Variation Minimization in Image Restoration. Journal of Mathematical Imaging and Vision, 2017, 57, 239-268.                                | 0.8 | 36        |
| 425 | Mapping-Based Image Diffusion. Journal of Mathematical Imaging and Vision, 2017, 57, 293-323.  | 0.8 | 2         |
| 426 | Total variation based denoising methods for speckle noise images. Involve, 2017, 10, 327-344.  | 0.1 | 2         |
| 427 | Bayesian method with sparsity enforcing prior of dual-tree complex wavelet transform coefficients for X-ray CT image reconstruction. , 2017, , .                                   |     | 2         |
| 428 | A Coordinate Descent Method for Total Variation Minimization. Mathematical Problems in Engineering, 2017, 2017, 1-13.  | 0.6 | 3         |
| 429 | Bayesian X-ray computed tomography using a three-level hierarchical prior model. AIP Conference Proceedings, 2017, , .   | 0.3 | 0         |
| 430 | A multi-frequency iterative imaging method for discontinuous inverse medium problem. Journal of Computational Physics, 2018, 362, 290-304.   | 1.9 | 0         |
| 431 | Variational model with kernel metric-based data term for noisy image segmentation. , 2018, 78, 42-55.  |     | 22        |
| 432 | A Modified Variational Model for Restoring Blurred Images with Additive Noise and Multiplicative Noise. Circuits, Systems, and Signal Processing, 2018, 37, 2511-2534.             | 1.2 | 3         |
| 433 | Analysis and an Interior-Point Approach for TV Image Reconstruction Problems on Smooth Surfaces. SIAM Journal on Imaging Sciences, 2018, 11, 889-922.                              | 1.3 | 7         |
| 434 | Convergence Analysis of Primal–Dual Based Methods for Total Variation Minimization with Finite Element Approximation. Journal of Scientific Computing, 2018, 76, 243-274.          | 1.1 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 435 | Total variation regularization for seismic waveform inversion using an adaptive primal dual hybrid gradient method. <i>Inverse Problems</i> , 2018, 34, 045006.                                     | 1.0 | 30        |
| 436 | Image colourisation by non-local total variation method in the CB and YIQ colour spaces. <i>IET Image Processing</i> , 2018, 12, 620-628.   | 1.4 | 5         |
| 437 | A Joint Image Registration and Superresolution Method Using a Combinational Continuous Generative Model. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018, 28, 834-848. | 5.6 | 0         |
| 438 | Denoising Method Based on Wavelet Coefficients via Diffusion Equation. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 721-726.                                | 0.7 | 5         |
| 439 | Explicit Ringing Removal in Image Deblurring. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 580-593.   | 6.0 | 18        |
| 440 | Performance of the Restarted Homotopy Perturbation Method and Split Bregman Method for Multiplicative Noise Removal. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-21.                | 0.6 | 1         |
| 441 | Bayesian Inference with Error Variable Splitting and Sparsity Enforcing Priors for Linear Inverse Problems. , 2018, , .   |     | 1         |
| 442 | State of the Art on 3D Reconstruction with RGB-D Cameras. <i>Computer Graphics Forum</i> , 2018, 37, 625-652.   | 1.8 | 191       |
| 443 | Image Restoration by a Mixed High-Order Total Variation and $\ell_1$ Regularization Model. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-13.  | 0.6 | 4         |
| 444 | Bayesian 3D X-Ray Computed Tomography with a Hierarchical Prior Model for Sparsity in Haar Transform Domain. <i>Entropy</i> , 2018, 20, 977.  | 1.1 | 2         |
| 445 | A progression strategy of proximal algorithm applied to the digital images inpainting. , 2018, , .  |     | 0         |
| 446 | Denoising of ultrasound images affected by combined speckle and Gaussian noise. <i>IET Image Processing</i> , 2018, 12, 2346-2351.  | 1.4 | 24        |
| 447 | Block Diagonal Preconditioners for an Image De-blurring Problem with Fractional Total Variation. <i>Journal of Physics: Conference Series</i> , 2018, 1132, 012063.                                 | 0.3 | 2         |
| 448 | Numerical Analysis in Visual Computing What we can Learn from each Other. <i>Vietnam Journal of Mathematics</i> , 2018, 46, 745-759.  | 0.4 | 1         |
| 449 | Total Variation Image Restoration Method Based on Subspace Optimization. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.  | 0.6 | 0         |
| 450 | Joint Segmentation and Nonlinear Registration Using Fast Fourier Transform and Total Variation. <i>Association for Women in Mathematics Series</i> , 2018, , 111-132.                               | 0.1 | 4         |
| 451 | Mechanical Characterization of the Vessel Wall by Data Assimilation of Intravascular Ultrasound Studies. <i>Frontiers in Physiology</i> , 2018, 9, 292.   | 1.3 | 7         |
| 452 | Investigating the Influence of Box-Constraints on the Solution of a Total Variation Model via an Efficient Primal-Dual Method. <i>Journal of Imaging</i> , 2018, 4, 12.                             | 1.7 | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 453 | Modern regularization methods for inverse problems. <i>Acta Numerica</i> , 2018, 27, 1-111.  | 6.3 | 216       |
| 454 | Image restoration based on the minimized surface regularization. <i>Computers and Mathematics With Applications</i> , 2018, 76, 1893-1905.   | 1.4 | 3         |
| 455 | Alternating method based on framelet l0-norm and TV regularization for image restoration. <i>Inverse Problems in Science and Engineering</i> , 2019, 27, 790-807.                          | 1.2 | 4         |
| 456 | Tensor regularized total variation for denoising of third harmonic generation images of brain tumors. <i>Journal of Biophotonics</i> , 2019, 12, e201800129.                               | 1.1 | 4         |
| 457 | Direct quantitative photoacoustic tomography for realistic acoustic media. <i>Inverse Problems</i> , 2019, 35, 084004.   | 1.0 | 13        |
| 458 | Speckle Noise Removal Convex Method Using Higher-Order Curvature Variation. <i>IEEE Access</i> , 2019, 7, 79825-79838.   | 2.6 | 8         |
| 459 | Planar crack identification in 3D linear elasticity by the reciprocity gap method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 355, 193-215.                      | 3.4 | 9         |
| 460 | A New Operator Splitting Method for the Euler Elastica Model for Image Smoothing. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1190-1230.   | 1.3 | 34        |
| 461 | Edge Enhancing Accelerated Diffusion Model for Speckle Denoising in Medical Imagery. <i>ITM Web of Conferences</i> , 2019, 29, 01009.  | 0.4 | 0         |
| 462 | Fast operator-splitting algorithms for variational imaging models: Some recent developments. <i>Handbook of Numerical Analysis</i> , 2019, 20, 191-232.                                    | 0.9 | 3         |
| 463 | Generating structured nonsmooth priors and associated primal-dual methods. <i>Handbook of Numerical Analysis</i> , 2019, , 437-502.  | 0.9 | 9         |
| 464 | An image denoising approach based on adaptive nonlocal total variation. <i>Journal of Visual Communication and Image Representation</i> , 2019, 65, 102661.                                | 1.7 | 7         |
| 465 | Flexible GMRES for total variation regularization. <i>BIT Numerical Mathematics</i> , 2019, 59, 721-746.   | 1.0 | 13        |
| 466 | A relaxed Newtonâ€Picard like method for Huber variant of total variation based image restoration. <i>Computers and Mathematics With Applications</i> , 2019, 78, 224-239.                | 1.4 | 14        |
| 467 | Total Variation Denoising for Optical Coherence Tomography. , 2019, , .  |     | 11        |
| 468 | A robust non-local total-variation based image registration method under illumination changes in medical applications. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 96-112. | 3.5 | 3         |
| 469 | A comprehensive survey on impulse and Gaussian denoising filters for digital images. <i>Signal Processing</i> , 2019, 157, 236-260.  | 2.1 | 99        |
| 470 | A monolithic conservative level set method with built-in redistancing. <i>Journal of Computational Physics</i> , 2019, 379, 262-278.   | 1.9 | 14        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 471 | A regularization parameter selection model for total variation based image noise removal. Applied Mathematical Modelling, 2019, 68, 353-367.   | 2.2 | 10        |
| 472 | Reconstruction of catadioptric omnidirectional images using dual alternating total variation minimization. Evolving Systems, 2019, 10, 707-723.                                      | 2.4 | 1         |
| 473 | On image restoration from random sampling noisy frequency data with regularization. Inverse Problems in Science and Engineering, 2019, 27, 1765-1789.                                | 1.2 | 1         |
| 474 | MPTV: Matching Pursuit-Based Total Variation Minimization for Image Deconvolution. IEEE Transactions on Image Processing, 2019, 28, 1851-1865.                                       | 6.0 | 17        |
| 475 | Confidence Interval Constraint-Based Regularization Framework for PET Quantization. IEEE Transactions on Medical Imaging, 2019, 38, 1513-1523.                                       | 5.4 | 3         |
| 476 | Variational Image Restoration and Segmentation with Rician Noise. Journal of Scientific Computing, 2019, 78, 1329-1352.  | 1.1 | 8         |
| 477 | TV: A Sparse Optimization Method for Impulse Noise Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 352-364.                             | 9.7 | 58        |
| 478 | Alternating forward-backward splitting for linearly constrained optimization problems. Optimization Letters, 2020, 14, 1071-1088.  | 0.9 | 6         |
| 479 | Variational-Based Mixed Noise Removal With CNN Deep Learning Regularization. IEEE Transactions on Image Processing, 2020, 29, 1246-1258.   | 6.0 | 30        |
| 480 | Application of total variation denoising in nuclear power plant signal pre-processing. Annals of Nuclear Energy, 2020, 135, 106981.  | 0.9 | 8         |
| 481 | Bayesian Inference and Uncertainty Quantification for Medical Image Reconstruction with Poisson Data. SIAM Journal on Imaging Sciences, 2020, 13, 29-52.                             | 1.3 | 13        |
| 482 | Adaptive total variation L1 regularization for salt and pepper image denoising. Optik, 2020, 208, 163677.  | 1.4 | 46        |
| 483 | Numerical computations of split Bregman method for fourth order total variation flow. Journal of Computational Physics, 2020, 405, 109114.   | 1.9 | 7         |
| 484 | Solving electrical impedance tomography with deep learning. Journal of Computational Physics, 2020, 404, 109119.   | 1.9 | 63        |
| 485 | A Three-Stage Variational Image Segmentation Framework Incorporating Intensity Inhomogeneity Information. SIAM Journal on Imaging Sciences, 2020, 13, 1692-1715.                     | 1.3 | 12        |
| 486 | Augmented Lagrangian method for a total variation-based model for demodulating phase discontinuities. Journal of Algorithms and Computational Technology, 2020, 14, 174830262094141. | 0.4 | 1         |
| 487 | Hierarchical Matrix Approximations of Hessians Arising in Inverse Problems Governed by PDEs. SIAM Journal of Scientific Computing, 2020, 42, A3397-A3426.                            | 1.3 | 9         |
| 488 | A Novel Nonlinear Second Order Hyperbolic Partial Differential Equation-Based Image Restoration Algorithm With Directional Diffusion. IEEE Access, 2020, 8, 131021-131031.           | 2.6 | 2         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 489 | Advanced Newton Methods for Geodynamical Models of Stokes Flow With Viscoplastic Rheologies. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009059.   | 1.0 | 7         |
| 490 | Spatially-Adaptive Variational Reconstructions for Linear Inverse Electrical Impedance Tomography. <i>Journal of Scientific Computing</i> , 2020, 84, 1.  | 1.1 | 19        |
| 491 | Fast Total Variation Method Based on Iterative Reweighted Norm for Airborne Scanning Radar Super-Resolution Imaging. <i>Remote Sensing</i> , 2020, 12, 2877.  | 1.8 | 3         |
| 492 | Adaptive Image Restoration via a Relaxed Regularization of Mean Curvature. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.  | 0.6 | 0         |
| 493 | A Variational Image Segmentation Model Based on Normalized Cut with Adaptive Similarity and Spatial Regularization. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 651-684.  | 1.3 | 5         |
| 494 | Self-adapted optimization-based video magnification for revealing subtle changes. <i>Integrated Computer-Aided Engineering</i> , 2020, 27, 173-193.   | 2.5 | 10        |
| 495 | ECT Image Reconstruction Based on Alternating Direction Approximate Newton Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 4873-4886.  | 2.4 | 16        |
| 496 | On the local and semilocal convergence of a parameterized multi-step Newton method. <i>Journal of Computational and Applied Mathematics</i> , 2020, 376, 112843.  | 1.1 | 1         |
| 497 | Analysis and simulation of a PDE model for surface relaxation. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.  | 1.0 | 0         |
| 498 | Least-squares diffraction imaging using shaping regularization by anisotropic smoothing. <i>Geophysics</i> , 2020, 85, S313-S325.   | 1.4 | 9         |
| 499 | Discrete total variation of the normal vector field as shape prior with applications in geometric inverse problems. <i>Inverse Problems</i> , 2020, 36, 054003.   | 1.0 | 2         |
| 500 | An unstructured finite element model for incompressible two-phase flow based on a monolithic conservative level set method. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1058-1080.   | 0.9 | 5         |
| 501 | Hyperspectral Mixed Noise Removal By $\ell_1$ -Norm-Based Subspace Representation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 1143-1157.   | 2.3 | 63        |
| 502 | Choice of the parameters in a primal-dual algorithm for Bregman iterated variational regularization. <i>Numerical Algorithms</i> , 2021, 86, 729-759.   | 1.1 | 4         |
| 503 | An effective alternating direction method of multipliers for color image restoration. <i>Applied Numerical Mathematics</i> , 2021, 164, 43-56.  | 1.2 | 7         |
| 504 | Implementation of total variation regularization-based approaches in the solution of linear inverse heat conduction problems concerning the estimation of surface heat fluxes. <i>International Communications in Heat and Mass Transfer</i> , 2021, 125, 105330. | 2.9 | 11        |
| 505 | Fractional derivative based nonlinear diffusion model for image denoising. <i>SeMA Journal</i> , 2022, 79, 355-364.   | 1.0 | 3         |
| 506 | Image denoising based on nonconvex anisotropic total-variation regularization. <i>Signal Processing</i> , 2021, 186, 108124.  | 2.1 | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 507 | Primal-dual algorithm for solving optimization problem of non-differentiable geophysical inversion. , 2021, , .  |     | 0         |
| 509 | A New Time Dependent Model Based on Level Set Motion for Nonlinear Deblurring and Noise Removal. Lecture Notes in Computer Science, 1999, , 429-434.                     | 1.0 | 17        |
| 511 | Total Variation in Imaging. , 2011, , 1016-1057.   |     | 13        |
| 512 | Numerical Methods and Applications in Total Variation Image Restoration. , 2011, , 1059-1094.  |     | 7         |
| 513 | Duality and Convex Programming. , 2015, , 257-304.   |     | 2         |
| 515 | Image Deconvolution Ringing Artifact Detection and Removal via PSF Frequency Analysis. Lecture Notes in Computer Science, 2014, , 247-262.                               | 1.0 | 13        |
| 516 | A Method for Total Variation-based Reconstruction of Noisy and Blurred Images. Mathematics and Visualization, 2007, , 95-108.  | 0.4 | 5         |
| 517 | A Variational Model for Interactive Shape Prior Segmentation and Real-Time Tracking. Lecture Notes in Computer Science, 2009, , 200-211.                                 | 1.0 | 8         |
| 518 | Projected Gradient Based Color Image Decomposition. Lecture Notes in Computer Science, 2009, , 295-306.  | 1.0 | 15        |
| 519 | A Dual Formulation of the TV-Stokes Algorithm for Image Denoising. Lecture Notes in Computer Science, 2009, , 307-318.   | 1.0 | 8         |
| 520 | Augmented Lagrangian Method, Dual Methods and Split Bregman Iteration for ROF Model. Lecture Notes in Computer Science, 2009, , 502-513.                                 | 1.0 | 123       |
| 522 | Polyakov Action Minimization for Efficient Color Image Processing. Lecture Notes in Computer Science, 2012, , 50-61.   | 1.0 | 11        |
| 523 | Nonlinear Partial Differential Equations for Noise Problems. Advances in Imaging and Electron Physics, 2010, 164, 329-343.   | 0.1 | 3         |
| 524 | Simple algorithm for $l_1$ -norm regularisation-based compressed sensing and image restoration. IET Image Processing, 2020, 14, 3405-3413.                               | 1.4 | 4         |
| 525 | Second-order PDE-based image restoration algorithm using directional diffusion. Journal of Engineering, 2017, 2017, 327-332.   | 0.6 | 2         |
| 526 | Total variation of the normal vector field as shape prior. Inverse Problems, 2020, 36, 054004.   | 1.0 | 2         |
| 527 | Accelerated Brain DCE-MRI Using Iterative Reconstruction With Total Generalized Variation Penalty for Quantitative Pharmacokinetic Analysis: A Feasibility Study. , 0, . |     | 1         |
| 528 | A new reiterative algorithm for the Rudin-Osher-Fatemi denoising model on the graph. , 2014, , .   |     | 4         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 529 | An inner-outer iteration method for solving convex optimization problems involving the sum of three convex functions. <i>Scientia Sinica Mathematica</i> , 2019, 49, 831.                                   | 0.1 | 5         |
| 530 | Total Variation with Overlapping Group Sparsity for Image Deblurring under Impulse Noise. <i>PLoS ONE</i> , 2015, 10, e0122562.   | 1.1 | 21        |
| 531 | Numerical Methods for Sparse Recovery. <i>Radon Series on Computational and Applied Mathematics</i> , 2010, , 93-200.   | 0.4 | 31        |
| 534 | An efficient algorithm for adaptive total variation based image decomposition and restoration. <i>International Journal of Applied Mathematics and Computer Science</i> , 2014, 24, 405-415.                | 1.5 | 4         |
| 535 | A two-level domain decomposition method for image restoration. <i>Inverse Problems and Imaging</i> , 2010, 4, 523-545.  | 0.6 | 29        |
| 536 | Augmented Lagrangian method for total variation restoration with non-quadratic fidelity. <i>Inverse Problems and Imaging</i> , 2011, 5, 237-261.  | 0.6 | 123       |
| 537 | A nonlinear multigrid solver with line Gauss-Seidel-semismooth-Newton smoother for the Fenchel pre-dual in total variation based image restoration. <i>Inverse Problems and Imaging</i> , 2011, 5, 323-339. | 0.6 | 8         |
| 538 | Global minimization of Markov random fields with applications to optical flow. <i>Inverse Problems and Imaging</i> , 2012, 6, 623-644.  | 0.6 | 10        |
| 539 | Fast total variation wavelet inpainting via approximated primal-dual hybrid gradient algorithm. <i>Inverse Problems and Imaging</i> , 2013, 7, 1031-1050.   | 0.6 | 11        |
| 540 | A fast modified Newton's method for curvature based denoising of 1D signals. <i>Inverse Problems and Imaging</i> , 2013, 7, 1075-1097.  | 0.6 | 4         |
| 541 | A stable method solving the total variation dictionary model with $L^\infty$ constraints. <i>Inverse Problems and Imaging</i> , 2014, 8, 507-535.   | 0.6 | 1         |
| 542 | Color image processing by vectorial total variation with gradient channels coupling. <i>Inverse Problems and Imaging</i> , 2016, 10, 461-497.   | 0.6 | 10        |
| 543 | A numerical study of a mean curvature denoising model using a novel augmented Lagrangian method. <i>Inverse Problems and Imaging</i> , 2017, 11, 975-996.   | 0.6 | 6         |
| 544 | Two-step methods for image zooming using duality strategies. <i>Numerical Algebra, Control and Optimization</i> , 2014, 4, 209-225.   | 1.0 | 1         |
| 545 | Fast Algorithms for the Anisotropic LLT Model in Image Denoising. <i>East Asian Journal on Applied Mathematics</i> , 2011, 1, 264-283.  | 0.4 | 2         |
| 546 | A Reformulated Convex and Selective Variational Image Segmentation Model and its Fast Multilevel Algorithm. <i>Numerical Mathematics</i> , 2019, 12, 403-437.   | 0.6 | 7         |
| 547 | A semi-supervised heat kernel pagerank MBO algorithm for data classification. <i>Communications in Mathematical Sciences</i> , 2018, 16, 1241-1265.   | 0.5 | 7         |
| 548 | Chambolle's Projection Algorithm for Total Variation Denoising. <i>Image Processing on Line</i> , 0, 3, 311-331.  | 0.0 | 45        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 549 | The M-components of level sets of continuous functions in WBV. Publicacions Matematiques, 2001, 45, 477-527.  | 0.2 | 7         |
| 550 | A fractional-order regularization with sparsity constraint for blind restoration of images. Inverse Problems in Science and Engineering, 2021, 29, 3305-3321.   | 1.2 | 2         |
| 551 | Flexible Krylov Methods for Edge Enhancement in Imaging. Journal of Imaging, 2021, 7, 216.  | 1.7 | 1         |
| 552 | Modified constitutive relation error for field identification: Theoretical and experimental assessments on fiber orientation identification in a composite material. International Journal for Numerical Methods in Engineering, 0, , . | 1.5 | 3         |
| 553 | The Total Variation Flow. , 2003, , 225-236.  |     | 0         |
| 554 | Nonlinear Deblurring Algorithm on Convex-Mirror Image for Reducing Occlusion. The KIPS Transactions PartA, 2006, 13A, 429-434.  | 0.1 | 0         |
| 555 | Image Dejittering Based on Slicing Moments. Mathematics and Visualization, 2007, , 35-55.   | 0.4 | 3         |
| 558 | Image restoration algorithm based on primal-dual hybrid gradient descent method. Journal of Computer Applications, 2009, 29, 987-989.   | 0.1 | 0         |
| 559 | FAST DUAL MINIMIZATION OF WEIGHTED TV + L1-NORM FOR SALT AND PEPPER NOISE REMOVAL. , 2010, , .  |     | 0         |
| 560 | Duality and Convex Programming. , 2011, , 229-270.  |     | 1         |
| 562 | Variational Segmentation of Polarimetric SAR Image By Using a Continuous Potts Model and Automatic Initialization. Lecture Notes in Electrical Engineering, 2012, , 23-32.  | 0.3 | 0         |
| 564 | Two Parallel Strategies for Real-time Spatial Video Denoising for Multi-core Processors. International Journal of Computer Applications, 2012, 48, 28-35.   | 0.2 | 1         |
| 565 | Image Restoration Method by Total Variation Minimization Using Multilayer Neural Networks Approach. Communications in Computer and Information Science, 2013, , 424-432.  | 0.4 | 1         |
| 566 | Split Bregman iteration for hybrid regularization based image restoration. , 0, , .   |     | 0         |
| 567 | Multiplicative Noise Removal by a Fast Hybrid Total Variation Minimization Method. Journal of Information and Computational Science, 2013, 10, 4047-4055.   | 0.1 | 0         |
| 568 | The Improvement of Total Variation Based Image Restoration Method and Its Application. , 2014, , 139-151.   |     | 1         |
| 569 | Soft Image Segmentation Based on the Mixture of Gaussians and the Phase-Transition Theory. Applied Mathematics, 2014, 05, 2888-2898.  | 0.1 | 3         |
| 570 | MODIFIED ADAPTIVE BILATERAL FILTER FOR IMAGE CONTRAST ENHANCEMENT. International Journal of Research in Engineering and Technology, 2014, 03, 258-262.  | 0.1 | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 571 | A Time Dependent Model for Image Denoising. Journal of Signal and Information Processing, 2015, 06, 28-38.   | 0.8 | 2         |
| 572 | Numerical Methods and Applications in Total Variation Image Restoration. , 2015, , 1501-1537.  |     | 0         |
| 573 | Adaptive Proximal Point Algorithms for Total Variation Image Restoration. Statistics, Optimization and Information Computing, 2015, 3, .                           | 0.4 | 2         |
| 574 | Double-Opponent Vectorial Total Variation. Lecture Notes in Computer Science, 2016, , 644-659.   | 1.0 | 0         |
| 575 | Novel Image Deconvolution Algorithm Based on the ROF Model. Communications in Computer and Information Science, 2016, , 431-440.                                   | 0.4 | 0         |
| 576 | 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         |
| 577 | Motion Estimated-Compensated Reconstruction with Preserved-Features in Free-Breathing Cardiac MRI. Lecture Notes in Computer Science, 2017, , 70-80.               | 1.0 | 0         |
| 578 | An approach of characterizing the degree of spatial color mixture. Proceedings of SPIE, 2017, , .  | 0.8 | 0         |
| 579 | Blind Image Deconvolution: Problem Formulation and Existing Approaches. , 2017, , 21-62.   |     | 8         |
| 580 | Inverse Problems and Total Variation Minimization for Iterated Function Systems on Maps. Springer Proceedings in Mathematics and Statistics, 2018, , 93-103.       | 0.1 | 0         |
| 581 | A Variational Approach to Image Inpainting and Text Removal. International Journal of Scientific Engineering and Technology, 2018, 7, 31.                          | 0.2 | 0         |
| 582 | Bayesian Approach to Variable Splitting Forward Models. Springer Proceedings in Mathematics and Statistics, 2018, , 13-23.   | 0.1 | 0         |
| 583 | Total variation-based dense depth from multicamera array. Optical Engineering, 2018, 57, 1.  | 0.5 | 1         |
| 584 | Total generalized variation regularization in data assimilation for Burgers' equation. Inverse Problems and Imaging, 2019, 13, 755-786.                            | 0.6 | 0         |
| 585 | A new PDE-based time dependent model for image restoration. International Journal of Mathematics Trends and Technology, 2019, 65, 168-173.                         | 0.0 | 0         |
| 586 | Nonconvex regularization for blurred images with Cauchy noise. Inverse Problems and Imaging, 2022, 16, 625.  | 0.6 | 6         |
| 587 | Joint image restoration and edge detection in cooperative game formulation. Signal Processing, 2022, 191, 108363.  | 2.1 | 11        |
| 588 | Quality Assessment and Restoration of Face Images in Long Range/High Zoom Video. , 2007, , 43-60.  |     | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 590 | A Novel Mesh Denoising Method Based on Relaxed Second-Order Total Generalized Variation. SIAM Journal on Imaging Sciences, 2022, 15, 1-22.   | 1.3 | 1         |
| 591 | An efficient primal-dual method for solving non-smooth machine learning problem. Chaos, Solitons and Fractals, 2022, 155, 111754.  | 2.5 | 8         |
| 592 | A Fast Algorithm for $TV \hat{\sim} L1$ Based on Split Bregman Method. Energy Procedia, 2011, 13, 7045-7052.   | 1.8 | 0         |
| 593 | Euler equations and trace properties of minimizers of a functional for motion compensated inpainting. Inverse Problems and Imaging, 2021, .  | 0.6 | 0         |
| 595 | A relaxed parameter condition for the primal-dual hybrid gradient method for saddle-point problem. Journal of Industrial and Management Optimization, 2023, 19, 1595-1610.                   | 0.8 | 1         |
| 596 | Two-point Landweber-type method with convex penalty terms for nonsmooth nonlinear inverse problems. IMA Journal of Numerical Analysis, 2023, 43, 1115-1148.                                  | 1.5 | 2         |
| 597 | A new PDE learning model for image denoising. Neural Computing and Applications, 2022, 34, 8551-8574.  | 3.2 | 6         |
| 598 | Learning Nonlinear Electrical Impedance Tomography. Journal of Scientific Computing, 2022, 90, 1.  | 1.1 | 11        |
| 599 | Total variation based image denoising and restoration. , 2007, , 1453-1472.  |     | 2         |
| 601 | Performance of denoising algorithms in the improvement of lithological discrimination. Modeling Earth Systems and Environment, 0, , .  | 1.9 | 1         |
| 603 | Image Restoration using Nonlocal Regularized Variational Model with Spatially Adapted Regularization Parameter. Mathematical Problems in Engineering, 2022, 2022, 1-24.                      | 0.6 | 0         |
| 604 | Efficient non-blind deconvolution method for large scale blurred image with hybrid regularizations. Optik, 2022, 267, 169630.  | 1.4 | 1         |
| 605 | A Non-Local Diffusion Equation for Noise Removal. Acta Mathematica Scientia, 2022, 42, 1779-1808.  | 0.5 | 0         |
| 606 | A New Foreground and Background Image Segmentation Method Based on a Convex Shape Prior and a Nonconvex Regularizer. IEEE Access, 2022, , 1-1.   | 2.6 | 0         |
| 607 | Total Generalized Variation for Triangulated Surface Data. Journal of Scientific Computing, 2022, 93, .  | 1.1 | 1         |
| 608 | Minimizing total variation flow. , 2001, 14, .   |     | 111       |
| 609 | Robust and efficient primal-dual Newton-Krylov solvers for viscous-plastic sea-ice models. Journal of Computational Physics, 2023, 474, 111802.  | 1.9 | 3         |
| 610 | Cross-Track Illumination Correction for Hyperspectral Pushbroom Sensor Images Using Low-Rank and Sparse Representations. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17. | 2.7 | 11        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 611 | A review of methods for solving the optical molecular tomography. Journal of Applied Physics, 2023, 133, .  | 1.1 | 6         |
| 612 | Image Deblurring Based on Normalized-weighted Total Variation. , 2022, , .  |     | 0         |
| 613 | A Nonlinear Hybrid Diffusion Model for Image Denoising. Macromolecular Symposia, 2023, 407, .   | 0.4 | 0         |
| 614 | A first-order Rician denoising and deblurring model. Inverse Problems and Imaging, 2023, 17, 1139-1164.   | 0.6 | 1         |
| 615 | Multiplicative Noise Removal and Contrast Enhancement for SAR Images Based on a Total Fractional-Order Variation Model. Fractal and Fractional, 2023, 7, 329. | 1.6 | 1         |