

Xiaoping Yang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,081
citations

623734

14
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

860
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Loss odyssey in medical image segmentation. <i>Medical Image Analysis</i> , 2021, 71, 102035. | 11.6 | 240 |
| 2 | Toward data-efficient learning: A benchmark for COVID-19 CT lung and infection segmentation. <i>Medical Physics</i> , 2021, 48, 1197-1210. | 3.0 | 155 |
| 3 | Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. <i>Medical Image Analysis</i> , 2022, 77, 102336. | 11.6 | 114 |
| 4 | AbdomenCT-1K: Is Abdominal Organ Segmentation a Solved Problem?. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 6695-6714. | 13.9 | 101 |
| 5 | A Variational Model to Remove the Multiplicative Noise in Ultrasound Images. <i>Journal of Mathematical Imaging and Vision</i> , 2011, 39, 62-74. | 1.3 | 82 |
| 6 | An integrated method for atherosclerotic carotid plaque segmentation in ultrasound image. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 153, 19-32. | 4.7 | 37 |
| 7 | Fast reduction of speckle noise in real ultrasound images. <i>Signal Processing</i> , 2013, 93, 684-694. | 3.7 | 36 |
| 8 | Learning Geodesic Active Contours for Embedding Object Global Information in Segmentation CNNs. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 93-104. | 8.9 | 34 |
| 9 | Medical image segmentation based on level set and isoperimetric constraint. <i>Physica Medica</i> , 2017, 42, 162-173. | 0.7 | 29 |
| 10 | Ultrasound kidney segmentation with a global prior shape. <i>Journal of Visual Communication and Image Representation</i> , 2013, 24, 937-943. | 2.8 | 28 |
| 11 | Total generalized variation restoration with non-quadratic fidelity. <i>Multidimensional Systems and Signal Processing</i> , 2018, 29, 1459-1484. | 2.6 | 28 |
| 12 | Comparing methods of detecting and segmenting unruptured intracranial aneurysms on TOF-MRAS: The ADAM challenge. <i>NeuroImage</i> , 2021, 238, 118216. | 4.2 | 26 |
| 13 | Active contour regularized semi-supervised learning for COVID-19 CT infection segmentation with limited annotations. <i>Physics in Medicine and Biology</i> , 2020, 65, 225034. | 3.0 | 22 |
| 14 | A Characteristic Function-Based Algorithm for Geodesic Active Contours. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 1184-1205. | 2.2 | 18 |
| 15 | Deformable Image Registration Using Functions of Bounded Deformation. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1488-1500. | 8.9 | 15 |
| 16 | Dynamic MR image reconstruction based on total generalized variation and low-rank decomposition. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2064-2076. | 3.0 | 14 |
| 17 | A Novel Total Generalized Variation Model for Image Dehazing. <i>Journal of Mathematical Imaging and Vision</i> , 2019, 61, 1329-1341. | 1.3 | 12 |
| 18 | A Three-Stage Variational Image Segmentation Framework Incorporating Intensity Inhomogeneity Information. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 1692-1715. | 2.2 | 12 |

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|----|---|------|-----------|
| 19 | Segmentation of the Common Carotid Intima-Media Complex in Ultrasound Images Using 2-D Continuous Max-Flow and Stacked Sparse Auto-encoder. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3104-3124. | 1.5 | 11 |
| 20 | Quantitative Evaluation of Temporal Regularizers in Compressed Sensing Dynamic Contrast Enhanced MRI of the Breast. <i>International Journal of Biomedical Imaging</i> , 2017, 2017, 1-11. | 3.9 | 10 |
| 21 | Variational image fusion approach based on TGV and local information. <i>IET Computer Vision</i> , 2018, 12, 535-541. | 2.0 | 7 |
| 22 | Infimal convolution type regularization of TGV and shearlet transform for image restoration. <i>Computer Vision and Image Understanding</i> , 2019, 182, 38-49. | 4.7 | 7 |
| 23 | A modified level set algorithm based on point distance shape constraint for lesion and organ segmentation. <i>Physica Medica</i> , 2019, 57, 123-136. | 0.7 | 6 |
| 24 | An efficient fusion algorithm combining feature extraction and variational optimization for CT and MR images. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 139-150. | 1.9 | 6 |
| 25 | A fast algorithm for global minimization of maximum likelihood based on ultrasound image segmentation. <i>Inverse Problems and Imaging</i> , 2011, 5, 645-657. | 1.1 | 5 |
| 26 | Region intensity complexity active contours. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 1185-1206. | 2.6 | 5 |
| 27 | Nodal sets and horizontal singular sets of \hat{a}_ν -harmonic functions on the Heisenberg group. <i>Communications in Contemporary Mathematics</i> , 2014, 16, 1350049. | 1.2 | 4 |
| 28 | TGV-based multiplicative noise removal approach: Models and algorithms. <i>Journal of Inverse and Ill-Posed Problems</i> , 2018, 26, 703-727. | 1.0 | 4 |
| 29 | Integrating Compact Constraint and Distance Regularization with Level Set for Hepatocellular Carcinoma (HCC) Segmentation on Computed Tomography (CT) Images. <i>Sensing and Imaging</i> , 2017, 18, 1. | 1.5 | 3 |
| 30 | Deformable Image Registration Based on Functions of Bounded Generalized Deformation. <i>International Journal of Computer Vision</i> , 2021, 129, 1341-1358. | 15.6 | 2 |
| 31 | Shape prior generation and geodesic active contour interactive iterating algorithm (SPACIAL): fully automatic segmentation for 3D lumen in intravascular optical coherence tomography images. <i>Medical Physics</i> , 2021, 48, 7099-7111. | 3.0 | 2 |
| 32 | Global existence and finite time blow-up for a parabolic system on hyperbolic space. <i>Journal of Mathematical Physics</i> , 2018, 59, 011505. | 1.1 | 1 |
| 33 | The polynomial growth solutions to some sub-elliptic equations on the Heisenberg group. <i>Communications in Contemporary Mathematics</i> , 2019, 21, 1750069. | 1.2 | 1 |
| 34 | Strong unique continuation property for a class of fourth order elliptic equations with strongly singular potentials. <i>Science China Mathematics</i> , 2022, 65, 707-730. | 1.7 | 1 |
| 35 | Critical points and level sets of Grushin-Harmonic functions in the plane. <i>Journal D'Analyse Mathématique</i> , 2021, 143, 435-460. | 0.8 | 1 |
| 36 | A Variational Model for Deformable Registration of Uni-modal Medical Images with Intensity Biases. <i>Journal of Mathematical Imaging and Vision</i> , 2021, 63, 1057-1068. | 1.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Measure upper bounds for nodal sets of eigenfunctions of the bi-Laplacian operator. Journal of the London Mathematical Society, 2022, 105, 1936-1973. | 1.0 | 1 |
| 38 | Equilibrium pricing of foreign exchange options under a discontinuous model with stochastic jump intensity. Communications in Statistics - Theory and Methods, 2021, 50, 1059-1081. | 1.0 | 0 |
| 39 | Splitting proximate algorithm for deformable image registration based on functions of bounded deformation. Medical Physics, 0, , . | 3.0 | 0 |