

MIND: Modality independent neighbourhood descriptor registration

Medical Image Analysis

16, 1423-1435

DOI: [10.1016/j.media.2012.05.008](https://doi.org/10.1016/j.media.2012.05.008)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Biomedical Cancer Imaging Analysis. , 2012, , . | | 0 |
| 2 | Harnessing graphics processing units for improved neuroimaging statistics. Cognitive, Affective and Behavioral Neuroscience, 2013, 13, 587-597. | 1.0 | 3 |
| 3 | Deformable Medical Image Registration: A Survey. IEEE Transactions on Medical Imaging, 2013, 32, 1153-1190. | 5.4 | 1,094 |
| 5 | Detection of Structural Similarity for Multimodal Microscopic Image Registration. , 2013, , . | | 1 |
| 6 | Machine Learning in Medical Imaging. Lecture Notes in Computer Science, 2013, , . | 1.0 | 24 |
| 7 | Two Phase Non-Rigid Multi-Modal Image Registration Using Weber Local Descriptor-Based Similarity Metrics and Normalized Mutual Information. Sensors, 2013, 13, 7599-7617. | 2.1 | 15 |
| 8 | MRF-Based Deformable Registration and Ventilation Estimation of Lung CT. IEEE Transactions on Medical Imaging, 2013, 32, 1239-1248. | 5.4 | 208 |
| 9 | Maximizing structural similarity in multimodal biomedical microscopic images for effective registration. , 2013, , . | | 1 |
| 10 | A reference dataset for deformable image registration spatial accuracy evaluation using the COPDgene study archive. Physics in Medicine and Biology, 2013, 58, 2861-2877. | 1.6 | 97 |
| 11 | Registration and Segmentation in Medical Imaging. Studies in Computational Intelligence, 2014, , 137-156. | 0.7 | 7 |
| 12 | Diffusion Maps for Multimodal Registration. Sensors, 2014, 14, 10562-10577. | 2.1 | 17 |
| 13 | Registration and Recognition in Images and Videos. Studies in Computational Intelligence, 2014, , . | 0.7 | 1 |
| 14 | Elastic registration of prostate MR images based on state estimation of dynamical systems. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 15 | A Novel Multi-Modal Image Registration Method Based on Corners. , 2014, , . | | 4 |
| 16 | Dynamic tracking of a deformable tissue based on 3D-2D MR-US image registration. Proceedings of SPIE, 2014, , . | 0.8 | 3 |
| 17 | Hidden Markov model-based multi-modal image fusion with efficient training. , 2014, , . | | 4 |
| 18 | The ANACONDA algorithm for deformable image registration in radiotherapy. Medical Physics, 2015, 42, 40-53. | 1.6 | 201 |
| 19 | Automated Colorectal Tumour Segmentation in DCE-MRI Using Supervoxel Neighbourhood Contrast Characteristics. Lecture Notes in Computer Science, 2014, 17, 609-616. | 1.0 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 20 | Image Registration for Quantitative Parametric Response Mapping of Cancer Treatment Response. <i>Translational Oncology</i> , 2014, 7, 101-110. | 1.7 | 22 |
| 21 | Organ-focused mutual information for nonrigid multimodal registration of liver CT and Gdâ€“EOBâ€“DTPA-enhanced MRI. <i>Medical Image Analysis</i> , 2014, 18, 22-35. | 7.0 | 13 |
| 22 | Comparative Evaluation of Registration Algorithms in Different Brain Databases With Varying Difficulty: Results and Insights. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2039-2065. | 5.4 | 144 |
| 23 | Registration of Whole-Mount Histology and Volumetric Imaging of the Prostate Using Particle Filtering. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1601-1613. | 5.4 | 16 |
| 24 | A Stationary Wavelet Transform Based Approach to Registration of Planning CT and Setup Cone beam-CT Images in Radiotherapy. <i>Journal of Medical Systems</i> , 2014, 38, 40. | 2.2 | 9 |
| 25 | Self-similarity weighted mutual information: A new nonrigid image registration metric. <i>Medical Image Analysis</i> , 2014, 18, 343-358. | 7.0 | 86 |
| 26 | Nonrigid Registration of Ultrasound and MRI Using Contextual Conditioned Mutual Information. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 708-725. | 5.4 | 48 |
| 27 | Automatic ultrasoundâ€“MRI registration for neurosurgery using the 2D and 3D LC2 Metric. <i>Medical Image Analysis</i> , 2014, 18, 1312-1319. | 7.0 | 74 |
| 28 | Multiâ€“modal image registration using edge neighbourhood descriptor. <i>Electronics Letters</i> , 2014, 50, 752-754. | 0.5 | 4 |
| 29 | An implicit sliding-motion preserving regularisation via bilateral filtering for deformable image registration. <i>Medical Image Analysis</i> , 2014, 18, 1299-1311. | 7.0 | 69 |
| 30 | Nonrigid medical image registration with locally linear reconstruction. <i>Neurocomputing</i> , 2014, 145, 303-315. | 3.5 | 9 |
| 31 | Edge preserving multi-modal registration based on gradient intensity self-similarity. , 2014, , . | | 0 |
| 32 | Comparison of breathing gated CT images generated using a 5DCT technique and a commercial clinical protocol in a porcine model. <i>Medical Physics</i> , 2015, 42, 4033-4042. | 1.6 | 12 |
| 33 | Mutually coherent structural representation for image registration through joint manifold embedding and alignment. , 2015, , . | | 0 |
| 34 | Multiâ€“modal robust inverseâ€“consistent linear registration. <i>Human Brain Mapping</i> , 2015, 36, 1365-1380. | 1.9 | 5 |
| 35 | Robustly building keypoint mappings with global information on multispectral images. <i>Eurasip Journal on Advances in Signal Processing</i> , 2015, 2015, . | 1.0 | 3 |
| 36 | Deformable registration for quantifying longitudinal tumor changes during neoadjuvant chemotherapy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2343-2356. | 1.9 | 30 |
| 37 | Ultra-short echo-time pulmonary MRI: Evaluation and reproducibility in COPD subjects with and without bronchiectasis. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1465-1474. | 1.9 | 61 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 38 | Dimensionality reduction of medical image descriptors for multimodal image registration. Current Directions in Biomedical Engineering, 2015, 1, 201-205. | 0.2 | 1 |
| 39 | Automatic bone detection and soft tissue aware ultrasoundâ€“CT registration for computer-aided orthopedic surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 971-979. | 1.7 | 33 |
| 40 | Non-rigid MRI-TRUS registration in targeted prostate biopsy. , 2015, , . | | 0 |
| 41 | Fourier-based linear systems description of free-breathing pulmonary magnetic resonance imaging. , 2015, , . | | 0 |
| 42 | Random walker image registration with inverse consistency. , 2015, , . | | 1 |
| 43 | Robust deformable registration of pre- and post-resection ultrasound volumes for visualization of residual tumor in neurosurgery. , 2015, 2015, 141-4. | | 0 |
| 44 | Segmentation of cells in electron microscopy images through multimodal label transfer. , 2015, , . | | 0 |
| 45 | Statistical Biomechanical Surface Registration: Application to MR-TRUS Fusion for Prostate Interventions. IEEE Transactions on Medical Imaging, 2015, 34, 2535-2549. | 5.4 | 19 |
| 46 | DASC: Dense adaptive self-correlation descriptor for multi-modal and multi-spectral correspondence. , 2015, , . | | 13 |
| 47 | Principal component analysis of the CT density histogram to generate parametric response maps of COPD. , 2015, , . | | 0 |
| 48 | On-line MR imaging for dose validation of abdominal radiotherapy. Physics in Medicine and Biology, 2015, 60, 8869-8883. | 1.6 | 35 |
| 49 | Feasibility of a fast method for B1-inhomogeneity correction for FSPGR sequences. Magnetic Resonance Imaging, 2015, 33, 312-318. | 1.0 | 18 |
| 50 | Elastic registration of prostate MR images based on estimation of deformation states. Medical Image Analysis, 2015, 21, 87-103. | 7.0 | 13 |
| 52 | Free-breathing Pulmonary 1H and Hyperpolarized 3He MRI. Academic Radiology, 2015, 22, 320-329. | 1.3 | 50 |
| 53 | Edge-Based Multi-modal Registration and Application for Night Vision Devices. Journal of Mathematical Imaging and Vision, 2015, 53, 131-150. | 0.8 | 5 |
| 55 | Image registration based on the structure tensor of the local phase. , 2015, , . | | 1 |
| 56 | Three-Dimensional Nonrigid MR-TRUS Registration Using Dual Optimization. IEEE Transactions on Medical Imaging, 2015, 34, 1085-1095. | 5.4 | 31 |
| 57 | Graph-based Deformable Image Registration. , 2015, , 331-359. | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 58 | Structural image representation for image registration. , 2015, , . | | 0 |
| 59 | Building Keypoint Mappings on Multispectral Images by a Cascade of Classifiers with a Resurrection Mechanism. Sensors, 2015, 15, 11769-11786. | 2.1 | 1 |
| 60 | Phase congruency map driven brain tumour segmentation. , 2015, , . | | 2 |
| 61 | Recent Advances on 2D and 3D Change Detection in Urban Environments from Remote Sensing Data. , 2015, , 237-272. | | 15 |
| 62 | Handbook of Biomedical Imaging. , 2015, , . | | 10 |
| 63 | Groupwise image registration of multimodal head-and-neck images. , 2015, , . | | 1 |
| 64 | A Method for Assessing Ground-Truth Accuracy of the 5DCT Technique. International Journal of Radiation Oncology Biology Physics, 2015, 93, 925-933. | 0.4 | 16 |
| 65 | Automated Segmentation of Breast in 3-D MR Images Using a Robust Atlas. IEEE Transactions on Medical Imaging, 2015, 34, 116-125. | 5.4 | 37 |
| 66 | Automatic Deformable MR-Ultrasound Registration for Image-Guided Neurosurgery. IEEE Transactions on Medical Imaging, 2015, 34, 366-380. | 5.4 | 70 |
| 67 | Monocular, Boundary-Preserving Joint Recovery of Scene Flow and Depth. Frontiers in ICT, 2016, 3, . | 3.6 | 0 |
| 68 | 3D prostate MR-TRUS non-rigid registration using dual optimization with volume-preserving constraint. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 69 | MIND Demons: Symmetric Diffeomorphic Deformable Registration of MR and CT for Image-Guided Spine Surgery. IEEE Transactions on Medical Imaging, 2016, 35, 2413-2424. | 5.4 | 39 |
| 70 | Evolution: an edge-based variational method for non-rigid multi-modal image registration. Physics in Medicine and Biology, 2016, 61, 7377-7396. | 1.6 | 49 |
| 71 | Fast Deformable Image Registration with Non-smooth Dual Optimization. , 2016, , . | | 0 |
| 72 | Graph Cuts-Based Registration Revisited: A Novel Approach for Lung Image Registration Using Supervoxels and Image-Guided Filtering. , 2016, , . | | 4 |
| 73 | Hippocampus Segmentation Based on Orientation-Scale Descriptor and Sparse Coding. , 2016, , . | | 0 |
| 74 | Multi-Atlas Based Pseudo-CT Synthesis Using Multimodal Image Registration and Local Atlas Fusion Strategies. , 2016, , . | | 11 |
| 75 | Three-Dimensional Measurement of Hepatocellular Carcinoma Ablation Zones and Margins for Predicting Local Tumor Progression. Journal of Vascular and Interventional Radiology, 2016, 27, 1038-1045.e2. | 0.2 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 76 | Pieces-of-parts for supervoxel segmentation with global context: Application to DCE-MRI tumour delineation. <i>Medical Image Analysis</i> , 2016, 32, 69-83. | 7.0 | 20 |
| 77 | Effects of spatial resolution on image registration. , 2016, 9784, . | | 5 |
| 78 | Visualization of Deformable Image Registration Quality Using Local Image Dissimilarity. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2319-2328. | 5.4 | 18 |
| 79 | Enhancing accuracy of symmetric random walker image registration via a novel data-consistency measure. , 2016, , . | | 0 |
| 80 | FASTR: Using Local Structure Tensors as a Similarity Metric. <i>Procedia Computer Science</i> , 2016, 90, 194-199. | 1.2 | 1 |
| 81 | Cascade Registration of Micro CT Volumes Taken in Multiple Resolutions. <i>Lecture Notes in Computer Science</i> , 2016, , 269-280. | 1.0 | 1 |
| 82 | Self-similarity inspired local descriptor for non-rigid multi-modal image registration. <i>Information Sciences</i> , 2016, 372, 16-31. | 4.0 | 17 |
| 83 | Deformable Registration of Biomedical Images Using 2D Hidden Markov Models. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 4631-4640. | 6.0 | 8 |
| 84 | Self-similarity measure for multi-modal image registration. , 2016, , . | | 3 |
| 85 | miLBP: a robust and fast modality-independent 3D LBP for multimodal deformable registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 997-1005. | 1.7 | 13 |
| 86 | A robust image registration method based on total variation regularization under complex illumination changes. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 134, 89-107. | 2.6 | 9 |
| 87 | Learning Optimization Updates for Multimodal Registration. <i>Lecture Notes in Computer Science</i> , 2016, , 19-27. | 1.0 | 9 |
| 88 | Feature selection for automatic CT-based prostate segmentation. , 2016, , . | | 1 |
| 89 | Sorted self-similarity for multi-modal image registration. , 2016, 2016, 1151-1154. | | 2 |
| 90 | Performance evaluation of MIND demons deformable registration of MR and CT images in spinal interventions. <i>Physics in Medicine and Biology</i> , 2016, 61, 8276-8297. | 1.6 | 5 |
| 91 | Cross-Modality Anatomical Landmark Detection Using Histograms of Unsigned Gradient Orientations and Atlas Location Autocontext. <i>Lecture Notes in Computer Science</i> , 2016, , 139-146. | 1.0 | 0 |
| 92 | Registration of Pre- and Postresection Ultrasound Volumes With Noncorresponding Regions in Neurosurgery. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1240-1249. | 3.9 | 23 |
| 93 | Improved registration of DCE-MR images of the liver using a prior segmentation of the region of interest. , 2016, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 94 | Advances and challenges in deformable image registration: From image fusion to complex motion modelling. <i>Medical Image Analysis</i> , 2016, 33, 145-148. | 7.0 | 50 |
| 95 | Local structure orientation descriptor based on intra-image similarity for multimodal registration of liver ultrasound and MR images. <i>Computers in Biology and Medicine</i> , 2016, 76, 69-79. | 3.9 | 10 |
| 96 | MIND Demons for MR-to-CT deformable image registration in image-guided spine surgery. <i>Proceedings of SPIE</i> , 2016, 9786, . | 0.8 | 5 |
| 97 | Pulmonary Imaging Biomarkers of Gas Trapping and Emphysema in COPD: ³ He MR Imaging and CT Parametric Response Maps. <i>Radiology</i> , 2016, 279, 597-608. | 3.6 | 52 |
| 98 | Distortion correction of EPI data using multimodal nonrigid registration with an anisotropic regularization. <i>Magnetic Resonance Imaging</i> , 2016, 34, 127-136. | 1.0 | 5 |
| 99 | Towards Personalized Statistical Deformable Model and Hybrid Point Matching for Robust MR-TRUS Registration. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 589-604. | 5.4 | 30 |
| 100 | Confidence Estimation for Medical Image Registration Based On Stereo Confidences. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 539-549. | 5.4 | 22 |
| 101 | MUSE: Multi-atlas region Segmentation utilizing Ensembles of registration algorithms and parameters, and locally optimal atlas selection. <i>NeuroImage</i> , 2016, 127, 186-195. | 2.1 | 210 |
| 102 | Accurate inverse-consistent symmetric optical flow for 4D CT lung registration. <i>Biomedical Signal Processing and Control</i> , 2016, 24, 25-33. | 3.5 | 10 |
| 103 | Intensity based image registration by minimizing the complexity of weighted subtraction under illumination changes. <i>Biomedical Signal Processing and Control</i> , 2016, 25, 35-45. | 3.5 | 5 |
| 104 | Image Registration Based on Autocorrelation of Local Structure. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 63-75. | 5.4 | 68 |
| 105 | Registration of Multiview Echocardiography Sequences Using a Subspace Error Metric. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 352-361. | 2.5 | 7 |
| 106 | Registration of MRI to intraoperative radiographs for target localization in spinal interventions. <i>Physics in Medicine and Biology</i> , 2017, 62, 684-701. | 1.6 | 24 |
| 107 | The utilization of magnetic resonance imaging in the operating room. <i>Brachytherapy</i> , 2017, 16, 754-760. | 0.2 | 9 |
| 108 | Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. <i>NeuroImage</i> , 2017, 148, 77-102. | 2.1 | 215 |
| 109 | Robust Registration of Multimodal Remote Sensing Images Based on Structural Similarity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2941-2958. | 2.7 | 322 |
| 110 | Thoracic ^{CT} \leftrightarrow ^{MRI} coregistration for regional pulmonary structure \leftrightarrow function measurements of obstructive lung disease. <i>Medical Physics</i> , 2017, 44, 1718-1733. | 1.6 | 17 |
| 111 | Establishing Keypoint Matches on Multimodal Images With Bootstrap Strategy and Global Information. <i>IEEE Transactions on Image Processing</i> , 2017, 26, 3064-3076. | 6.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 112 | Feature matching evaluation for multimodal correspondence. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 129, 179-188. | 4.9 | 32 |
| 113 | Guiding multimodal registration with learned optimization updates. Medical Image Analysis, 2017, 41, 2-17. | 7.0 | 16 |
| 114 | Dual-core steered non-rigid registration for multi-modal images via bi-directional image synthesis. Medical Image Analysis, 2017, 41, 18-31. | 7.0 | 60 |
| 115 | Multi-modality image registration using the decomposition model. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 116 | Slice-to-volume medical image registration: A survey. Medical Image Analysis, 2017, 39, 101-123. | 7.0 | 123 |
| 117 | Evaluating fibre orientation dispersion in white matter: Comparison of diffusion MRI, histology and polarized light imaging. NeuroImage, 2017, 157, 561-574. | 2.1 | 141 |
| 118 | Fast and robust multimodal image registration using a local derivative pattern. Medical Physics, 2017, 44, 497-509. | 1.6 | 17 |
| 119 | Multi-level Multi-task Structured Sparse Learning for Diagnosis of Schizophrenia Disease. Lecture Notes in Computer Science, 2017, 10435, 46-54. | 1.0 | 1 |
| 120 | Multimodal image registration based on binary gradient angle descriptor. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2157-2167. | 1.7 | 3 |
| 122 | Learning-based structurally-guided construction of resting-state functional correlation tensors. Magnetic Resonance Imaging, 2017, 43, 110-121. | 1.0 | 17 |
| 123 | Hybrid PET/MRI co-segmentation based on joint fuzzy connectedness and graph cut. Computer Methods and Programs in Biomedicine, 2017, 149, 29-41. | 2.6 | 10 |
| 124 | Deformable multi-modal registration using 3D-FAST conditioned mutual information. Computer Assisted Surgery, 2017, 22, 295-304. | 0.6 | 3 |
| 125 | Groupwise non-rigid registration on multiparametric abdominal DWI acquisitions for robust ADC estimation: Comparison with pairwise approaches and different multimodal metrics. , 2017, , . | | 1 |
| 126 | Regularised differentiation for image derivatives. IET Image Processing, 2017, 11, 310-316. | 1.4 | 3 |
| 127 | Improved outcome of 131 I-mIBG treatment through combination with external beam radiotherapy in the SK-N-SH mouse model of neuroblastoma. Radiotherapy and Oncology, 2017, 124, 488-495. | 0.3 | 11 |
| 128 | Cross contrast multi-channel image registration using image synthesis for MR brain images. Medical Image Analysis, 2017, 36, 2-14. | 7.0 | 37 |
| 129 | DASC: Robust Dense Descriptor for Multi-Modal and Multi-Spectral Correspondence Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1712-1729. | 9.7 | 36 |
| 130 | MRI-guided radiotherapy of the SK-N-SH neuroblastoma xenograft model using a small animal radiation research platform. British Journal of Radiology, 2017, 90, 20160427. | 1.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 131 | Chemical exchange saturation transfer for predicting response to stereotactic radiosurgery in human brain metastasis. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1110-1120. | 1.9 | 45 |
| 132 | Application of demons image registration algorithms in resected breast cancer lodge localization. , 2017, , . | | 2 |
| 133 | A more precise multi-modal image registration using self-similarities. , 2017, , . | | 2 |
| 134 | Tensor-based descriptor for image registration via unsupervised network. , 2017, , . | | 5 |
| 135 | Performance analysis of similarity measures between multichannel optical and multipolarization radar images. , 2017, , . | | 1 |
| 136 | Log-Euclidean metric for robust multi-modal deformable registration. , 2017, , . | | 1 |
| 137 | A New 3D Multi-modality Medical Bone Image Registration Algorithm. , 2017, , . | | 1 |
| 138 | An efficient and robust MRI-guided radiotherapy planning approach for targeting abdominal organs and tumours in the mouse. <i>PLoS ONE</i> , 2017, 12, e0176693. | 1.1 | 12 |
| 139 | A framework for continuous target tracking during MR-guided high intensity focused ultrasound thermal ablations in the abdomen. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 27. | 2.2 | 10 |
| 140 | A Survey of Methods for 3D Histology Reconstruction. <i>Medical Image Analysis</i> , 2018, 46, 73-105. | 7.0 | 146 |
| 141 | Free-breathing Pulmonary MR Imaging to Quantify Regional Ventilation. <i>Radiology</i> , 2018, 287, 693-704. | 3.6 | 32 |
| 142 | Medical Image Synthesis with Deep Convolutional Adversarial Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2720-2730. | 2.5 | 392 |
| 143 | Applying stochastic second-order entropy images to multi-modal image registration. <i>Signal Processing: Image Communication</i> , 2018, 65, 201-209. | 1.8 | 8 |
| 144 | A hybrid optimization strategy for registering images with large local deformations and intensity variations. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 343-351. | 1.7 | 2 |
| 145 | A novel contour-based registration of lateral cephalogram and profile photograph. <i>Computerized Medical Imaging and Graphics</i> , 2018, 63, 9-23. | 3.5 | 3 |
| 146 | Improving oncoplastic breast tumor bed localization for radiotherapy planning using image registration algorithms. <i>Physics in Medicine and Biology</i> , 2018, 63, 035024. | 1.6 | 12 |
| 147 | Spatially Consistent Supervoxel Correspondences of Cone-Beam Computed Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2310-2321. | 5.4 | 4 |
| 148 | Region-Adaptive Deformable Registration of CT/MRI Pelvic Images via Learning-Based Image Synthesis. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 3500-3512. | 6.0 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 149 | A detector of structural similarity for multi-modal microscopic image registration. Multimedia Tools and Applications, 2018, 77, 7675-7701. | 2.6 | 2 |
| 150 | Joint groupwise registration and ADC estimation in the liver using a B-value weighted metric. Magnetic Resonance Imaging, 2018, 46, 1-9. | 1.0 | 6 |
| 151 | On the Potential Role of MRI Biomarkers of COPD to Guide Bronchoscopic Lung Volume Reduction. Academic Radiology, 2018, 25, 159-168. | 1.3 | 8 |
| 152 | Usage of ICP Algorithm for Initial Alignment in B-Splines FFD Image Registration in Breast Cancer Radiotherapy Planning. Advances in Intelligent Systems and Computing, 2018, , 143-152. | 0.5 | 2 |
| 153 | Regional Weighted Mutual Information for Multimodal Rigid Registration. , 2018, , . | | 1 |
| 155 | Combined Use of Multimodal Similarity Measures for Visual to Radar Image Registration. , 2018, , . | | 0 |
| 156 | Non-undersampled shearlet transform based MRI and PET brain image fusion using simplified pulse coupled neural network and weight local features in YIQ colour space. IET Image Processing, 2018, 12, 1873-1880. | 1.4 | 48 |
| 157 | Accelerating multi-modal image registration using a supervoxel-based variational framework. Physics in Medicine and Biology, 2018, 63, 235009. | 1.6 | 8 |
| 158 | Automatic Intraoperative Correction of Brain Shift for Accurate Neuronavigation. World Neurosurgery, 2018, 120, e1071-e1078. | 0.7 | 28 |
| 159 | Brain-Shift Correction with Image-Based Registration and Landmark Accuracy Evaluation. Lecture Notes in Computer Science, 2018, , 146-151. | 1.0 | 12 |
| 160 | Infrared and Visible Image Registration Using Transformer Adversarial Network. , 2018, , . | | 6 |
| 161 | Real-time, image-based slice-to-volume registration for ultrasound-guided spinal intervention. Physics in Medicine and Biology, 2018, 63, 215016. | 1.6 | 7 |
| 162 | Random Binary Local Patch Clustering Transforms Based Image Matching for Nonlinear Intensity Changes. Mathematical Problems in Engineering, 2018, 2018, 1-16. | 0.6 | 1 |
| 163 | Generic and Automatic Markov Random Field-Based Registration for Multimodal Remote Sensing Image Using Grayscale and Gradient Information. Remote Sensing, 2018, 10, 1228. | 1.8 | 7 |
| 164 | A momentum-based diffeomorphic demons framework for deformable MR-CT image registration. Physics in Medicine and Biology, 2018, 63, 215006. | 1.6 | 6 |
| 165 | LPPCO: A Novel Multimodal Medical Image Registration Using New Feature Descriptor Based on the Local Phase and Phase Congruency of Different Orientations. IEEE Access, 2018, 6, 71976-71987. | 2.6 | 6 |
| 166 | Unpaired Brain MR-to-CT Synthesis Using a Structure-Constrained CycleGAN. Lecture Notes in Computer Science, 2018, , 174-182. | 1.0 | 86 |
| 167 | Towards Robust CT-Ultrasound Registration Using Deep Learning Methods. Lecture Notes in Computer Science, 2018, , 43-51. | 1.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 168 | Robust Self-Similarity Descriptor for Multimodal Image Registration. , 2018, , . | | 1 |
| 169 | â€œPatientâ€specific validation of deformable image registration in radiation therapy: Overview and caveatsâ€ Medical Physics, 2018, 45, e908-e922. | 1.6 | 74 |
| 170 | Multimodal Registration of Retinal Images. Communications in Computer and Information Science, 2018, , 314-324. | 0.4 | 0 |
| 171 | Multi-modal and multi-vendor retina image registration. Biomedical Optics Express, 2018, 9, 410. | 1.5 | 36 |
| 172 | Robust estimation of the apparent diffusion coefficient invariant to acquisition noise and physiological motion. Magnetic Resonance Imaging, 2018, 53, 123-133. | 1.0 | 3 |
| 173 | Anatomically plausible models and quality assurance criteria for online mono- and multi-modal medical image registration. Physics in Medicine and Biology, 2018, 63, 155016. | 1.6 | 23 |
| 174 | Multimodal image matching via double-angled transform and FFT-correlation. , 2018, , . | | 0 |
| 175 | PCANet-Based Structural Representation for Nonrigid Multimodal Medical Image Registration. Sensors, 2018, 18, 1477. | 2.1 | 24 |
| 176 | Dissecting the pathobiology of altered MRI signal in amyotrophic lateral sclerosis: A post mortem whole brain sampling strategy for the integration of ultra-high-field MRI and quantitative neuropathology. BMC Neuroscience, 2018, 19, 11. | 0.8 | 47 |
| 177 | An atlas-based multimodal registration method for 2D images with discrepancy structures. Medical and Biological Engineering and Computing, 2018, 56, 2151-2161. | 1.6 | 1 |
| 178 | Groupwise Multichannel Image Registration. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1171-1180. | 3.9 | 5 |
| 179 | Joint modelling of diffusion MRI and microscopy. NeuroImage, 2019, 201, 116014. | 2.1 | 19 |
| 180 | Fast and Robust Matching for Multimodal Remote Sensing Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9059-9070. | 2.7 | 219 |
| 181 | Liver Segmentation in Abdominal CT Images Using Probabilistic Atlas and Adaptive 3D Region Growing. , 2019, 2019, 6310-6313. | | 13 |
| 182 | A pharmacokinetic model including arrival time for two inputs and compensating for varying applied flip-angle in dynamic gadoxetic acid-enhanced MR imaging. PLoS ONE, 2019, 14, e0220835. | 1.1 | 1 |
| 183 | Dynamic multiatlas selectionâ€based consensus segmentation of head and neck structures from CT images. Medical Physics, 2019, 46, 5612-5622. | 1.6 | 10 |
| 184 | Non-Rigid Multi-Modal 3D Medical Image Registration Based on Foveated Modality Independent Neighborhood Descriptor. Sensors, 2019, 19, 4675. | 2.1 | 18 |
| 185 | Chronic Obstructive Pulmonary Disease: Thoracic CT Texture Analysis and Machine Learning to Predict Pulmonary Ventilation. Radiology, 2019, 293, 676-684. | 3.6 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 186 | Towards Accurate and Robust Multi-Modal Medical Image Registration Using Contrastive Metric Learning. IEEE Access, 2019, 7, 132816-132827. | 2.6 | 15 |
| 187 | Feature-Based Deformable Registration Using Minimal Spanning Tree for Prostate MR Segmentation. IEEE Access, 2019, 7, 138645-138656. | 2.6 | 3 |
| 188 | Joint Vessel Segmentation and Deformable Registration on Multi-Modal Retinal Images Based on Style Transfer. , 2019, , . | | 17 |
| 189 | Exploring the Utilization of Gradient Information in SIFT Based Local Image Descriptors. Symmetry, 2019, 11, 998. | 1.1 | 3 |
| 190 | Generative adversarial network in medical imaging: A review. Medical Image Analysis, 2019, 58, 101552. | 7.0 | 958 |
| 191 | Deformable MRI-Ultrasound registration using correlation-based attribute matching for brain shift correction: Accuracy and generality in multi-site data. NeuroImage, 2019, 202, 116094. | 2.1 | 16 |
| 192 | Multi-Modal Medical Image Registration with Full or Partial Data: A Manifold Learning Approach. Journal of Imaging, 2019, 5, 5. | 1.7 | 32 |
| 193 | An Improved Medical Image Fusion Algorithm. Lecture Notes in Electrical Engineering, 2019, , 1593-1601. | 0.3 | 0 |
| 194 | Self-Similarity and Symmetry With SIFT for Multi-Modal Image Registration. IEEE Access, 2019, 7, 52202-52213. | 2.6 | 11 |
| 195 | Real-time and multimodal brain slice-to-volume registration using CNN. Expert Systems With Applications, 2019, 133, 86-96. | 4.4 | 12 |
| 196 | Quantitative error prediction of medical image registration using regression forests. Medical Image Analysis, 2019, 56, 110-121. | 7.0 | 28 |
| 197 | Patch-based lung ventilation estimation using multi-layer supervoxels. Computerized Medical Imaging and Graphics, 2019, 74, 49-60. | 3.5 | 5 |
| 198 | The spatial correspondence and genetic influence of interhemispheric connectivity with white matter microstructure. Nature Neuroscience, 2019, 22, 809-819. | 7.1 | 56 |
| 199 | Multiple-correlation similarity for block-matching based fast CT to ultrasound registration in liver interventions. Medical Image Analysis, 2019, 53, 132-141. | 7.0 | 10 |
| 200 | Towards Personalized Deformable and Mix-supervised Model for Robust MR-US Registration. , 2019, , . | | 0 |
| 201 | Space Independent Image Registration Using Curve-Based Method with Combination of Multiple Deformable Vector Fields. Symmetry, 2019, 11, 1210. | 1.1 | 1 |
| 202 | CNN Based Binarization of MultiSpectral Document Images. , 2019, , . | | 8 |
| 203 | Nonrigid registration of cardiac DSCT images by integrating intensity and point features. Biomedical Signal Processing and Control, 2019, 47, 224-230. | 3.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 204 | Multimodal image registration using Laplacian commutators. Information Fusion, 2019, 49, 130-145. | 11.7 | 26 |
| 205 | A robust non-local total-variation based image registration method under illumination changes in medical applications. Biomedical Signal Processing and Control, 2019, 49, 96-112. | 3.5 | 3 |
| 206 | Image synthesis-based multi-modal image registration framework by using deep fully convolutional networks. Medical and Biological Engineering and Computing, 2019, 57, 1037-1048. | 1.6 | 23 |
| 207 | Intelligent retrieval and classification in three-dimensional biomedical images – systematic mapping. Computer Science Review, 2019, 31, 19-38. | 10.2 | 15 |
| 208 | Discontinuity Preserving Liver MR Registration With Three-Dimensional Active Contour Motion Segmentation. IEEE Transactions on Biomedical Engineering, 2019, 66, 1884-1897. | 2.5 | 13 |
| 209 | PDE-constrained LDDMM via geodesic shooting and inexact Gauss–Newton–Krylov optimization using the incremental adjoint Jacobi equations. Physics in Medicine and Biology, 2019, 64, 025002. | 1.6 | 5 |
| 210 | Illumination-Robust Subpixel Fourier-Based Image Correlation Methods Based on Phase Congruency. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1995-2008. | 2.7 | 22 |
| 211 | Learning deep similarity metric for 3D MR–TRUS image registration. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 417-425. | 1.7 | 101 |
| 212 | A framework for Fourier decomposition free breathing pulmonary 1 H MRI ventilation measurements. Magnetic Resonance in Medicine, 2019, 81, 2135-2146. | 1.9 | 12 |
| 213 | Multimodal image registration for liver radioembolization planning and patient assessment. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 215-225. | 1.7 | 11 |
| 214 | Thoracic hybrid PET/CT registration using improved hybrid feature intensity multimodal demon. Radiation Physics and Chemistry, 2020, 167, 108280. | 1.4 | 3 |
| 215 | Registration with probabilistic correspondences – Accurate and robust registration for pathological and inhomogeneous medical data. Computer Vision and Image Understanding, 2020, 190, 102839. | 3.0 | 5 |
| 216 | Image registration in dynamic renal MRI – current status and prospects. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 33-48. | 1.1 | 20 |
| 217 | Lung 4D CT Image Registration Based on High-Order Markov Random Field. IEEE Transactions on Medical Imaging, 2020, 39, 910-921. | 5.4 | 13 |
| 218 | Model-Based and Data-Driven Strategies in Medical Image Computing. Proceedings of the IEEE, 2020, 108, 110-124. | 16.4 | 30 |
| 219 | Image synthesis and superresolution in medical imaging. , 2020, , 1-24. | | 3 |
| 220 | Multimodality image registration in the head and neck using a deep learning-derived synthetic CT as a bridge. Medical Physics, 2020, 47, 1094-1104. | 1.6 | 28 |
| 221 | Multimodal 3D medical image registration guided by shape encoder–decoder networks. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 269-276. | 1.7 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 222 | DCE-MRI assessment of response to neoadjuvant SABR in early stage breast cancer: Comparisons of single versus three fraction schemes and two different imaging time delays post-SABR. <i>Clinical and Translational Radiation Oncology</i> , 2020, 21, 25-31. | 0.9 | 12 |
| 223 | Self-learning based medical image representation for rigid real-time and multimodal slice-to-volume registration. <i>Information Sciences</i> , 2020, 541, 502-515. | 4.0 | 7 |
| 224 | Artificial Intelligence for Automated Overlay of Fundus Camera and Scanning Laser Ophthalmoscope Images. <i>Translational Vision Science and Technology</i> , 2020, 9, 56. | 1.1 | 10 |
| 225 | Deep adaptive registration of multi-modal prostate images. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101769. | 3.5 | 24 |
| 226 | End-to-end unsupervised cycle-consistent fully convolutional network for 3D pelvic CT-MR deformable registration. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 193-200. | 0.8 | 8 |
| 227 | To Align Multimodal Lumbar Spine Images via Bending Energy Constrained Normalized Mutual Information. <i>BioMed Research International</i> , 2020, 2020, 1-11. | 0.9 | 3 |
| 228 | A Deformable 3D-3D Registration Framework Using Discrete Periodic Spline Wavelet and Edge Position Difference. <i>IEEE Access</i> , 2020, 8, 146116-146133. | 2.6 | 3 |
| 229 | Unsupervised MR-to-CT Synthesis Using Structure-Constrained CycleGAN. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4249-4261. | 5.4 | 79 |
| 230 | Study on Correlation Between Subjective and Objective Metrics for Multimodal Retinal Image Registration. <i>IEEE Access</i> , 2020, 8, 190897-190905. | 2.6 | 3 |
| 231 | Fusion of Multiple-angles Intraoperative US Images and Pretreatment MR Images for USgHIFU Treatment of Uterine Fibroid: Retrospective Evaluation Based on Clinical Dataset. , 2020, 2020, 5236-5239. | | 2 |
| 232 | miRID: Multi-Modal Image Registration Using Modality-Independent and Rotation-Invariant Descriptor. <i>Symmetry</i> , 2020, 12, 2078. | 1.1 | 1 |
| 233 | Orientation-independent Feature Matching (OIFM) for Multimodal Retinal Image Registration. <i>Biomedical Signal Processing and Control</i> , 2020, 60, 101957. | 3.5 | 1 |
| 234 | Patch-based field-of-view matching in multi-modal images for electroporation-based ablations. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101750. | 3.5 | 1 |
| 235 | ICG-induced NIR fluorescence mapping in patients with head & neck tumors after the previous radiotherapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 31, 101838. | 1.3 | 8 |
| 236 | The top 100 most cited articles in medical artificial intelligence: a bibliometric analysis. <i>Journal of Medical Artificial Intelligence</i> , 2020, 3, 3-3. | 1.1 | 5 |
| 237 | Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , 2020, 65, 20TR01. | 1.6 | 330 |
| 238 | Diffeomorphic Registration With Intensity Transformation and Missing Data: Application to 3D Digital Pathology of Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2020, 14, 52. | 1.4 | 31 |
| 239 | Efficient Discrimination and Localization of Multimodal Remote Sensing Images Using CNN-Based Prediction of Localization Uncertainty. <i>Remote Sensing</i> , 2020, 12, 703. | 1.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 240 | Learning Optimal Shape Representations for Multi-Modal Image Registration. , 2020, , . | | 0 |
| 241 | Logarithmic Fuzzy Entropy Function for Similarity Measurement in Multimodal Medical Images Registration. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-16. | 0.7 | 1 |
| 242 | Gradient-based generation of intermediate images for heterogeneous tumor segmentation within hybrid PET/MRI scans. Computers in Biology and Medicine, 2020, 119, 103669. | 3.9 | 5 |
| 243 | Super-Resolution with compressively sensed MR/PET signals at its input. Informatics in Medicine Unlocked, 2020, 18, 100302. | 1.9 | 9 |
| 244 | Pulmonary Imaging Phenotypes of Chronic Obstructive Pulmonary Disease Using Multiparametric Response Maps. Radiology, 2020, 295, 227-236. | 3.6 | 20 |
| 245 | Susceptibility artifact correction for sub-millimeter fMRI using inverse phase encoding registration and T1 weighted regularization. Journal of Neuroscience Methods, 2020, 336, 108625. | 1.3 | 8 |
| 246 | Cross-spectral registration of natural images with SIPCFE. Machine Vision and Applications, 2020, 31, 1. | 1.7 | 0 |
| 247 | Deep learning in medical image registration: a survey. Machine Vision and Applications, 2020, 31, 1. | 1.7 | 343 |
| 248 | The Tempest in a Cubic Millimeter: Image-Based Refinements Necessitate the Reconstruction of 3D Microvasculature From a Large Series of Damaged Alternately-Stained Histological Sections. IEEE Access, 2020, 8, 13489-13506. | 2.6 | 5 |
| 249 | Predicting medical image registration error with block-matching using three orthogonal planes approach. Signal, Image and Video Processing, 2020, 14, 1099-1106. | 1.7 | 6 |
| 250 | Multi-Class ASD Classification Based on Functional Connectivity and Functional Correlation Tensor via Multi-Source Domain Adaptation and Multi-View Sparse Representation. IEEE Transactions on Medical Imaging, 2020, 39, 3137-3147. | 5.4 | 44 |
| 251 | Selection of a Similarity Measure Combination for a Wide Range of Multimodal Image Registration Cases. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 60-75. | 2.7 | 8 |
| 252 | Dense Cross-Modal Correspondence Estimation With the Deep Self-Correlation Descriptor. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2345-2359. | 9.7 | 3 |
| 253 | Lung Respiratory Motion Estimation Based on Fast Kalman Filtering and 4D CT Image Registration. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2007-2017. | 3.9 | 5 |
| 254 | Evaluation of fully automated myocardial segmentation techniques in native and contrast-enhanced T1-weighted cardiovascular magnetic resonance images using fully convolutional neural networks. Medical Physics, 2021, 48, 215-226. | 1.6 | 11 |
| 255 | Predicting medical image registration error through independent directions. Signal, Image and Video Processing, 2021, 15, 223-230. | 1.7 | 5 |
| 256 | Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. Medical Image Analysis, 2021, 67, 101845. | 7.0 | 33 |
| 257 | Deformable MR-CT prostate registration using biomechanically constrained deep learning networks. Medical Physics, 2021, 48, 253-263. | 1.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 258 | Pulmonary Ventilation Maps Generated with Free-breathing Proton MRI and a Deep Convolutional Neural Network. <i>Radiology</i> , 2021, 298, 427-438. | 3.6 | 16 |
| 259 | DiCyc: GAN-based deformation invariant cross-domain information fusion for medical image synthesis. <i>Information Fusion</i> , 2021, 67, 147-160. | 11.7 | 62 |
| 260 | Biomedical imaging and analysis through deep learning. , 2021, , 49-74. | | 2 |
| 261 | DeepHistReg: Unsupervised Deep Learning Registration Framework for Differently Stained Histology Samples. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 198, 105799. | 2.6 | 19 |
| 262 | Weakly-supervised learning of multi-modal features for regularised iterative descent in 3D image registration. <i>Medical Image Analysis</i> , 2021, 67, 101822. | 7.0 | 24 |
| 263 | SAME: Deformable Image Registration Based on Self-supervised Anatomical Embeddings. <i>Lecture Notes in Computer Science</i> , 2021, , 87-97. | 1.0 | 6 |
| 264 | Cross-Modal Attention for MRI and Ultrasound Volume Registration. <i>Lecture Notes in Computer Science</i> , 2021, , 66-75. | 1.0 | 29 |
| 265 | Learning a Model-Driven Variational Network for Deformable Image Registration. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 199-212. | 5.4 | 9 |
| 266 | Synth-by-Reg (SbR): Contrastive Learning for Synthesis-Based Registration of Paired Images. <i>Lecture Notes in Computer Science</i> , 2021, 12965, 44-54. | 1.0 | 6 |
| 267 | Data-driven feature learning for myocardial registration and segmentation. , 2021, , 185-225. | | 1 |
| 268 | Rigid Image Registration Based on Graph Matching. <i>Communications in Computer and Information Science</i> , 2021, , 295-304. | 0.4 | 0 |
| 269 | Multi-step, Learning-Based, Semi-supervised Image Registration Algorithm. <i>Lecture Notes in Computer Science</i> , 2021, , 94-99. | 1.0 | 1 |
| 270 | Self-supervised Multi-modal Alignment for Whole Body Medical Imaging. <i>Lecture Notes in Computer Science</i> , 2021, , 90-101. | 1.0 | 4 |
| 271 | Learning Deformable Image Registration From Optimization: Perspective, Modules, Bilevel Training and Beyond. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 7688-7704. | 9.7 | 11 |
| 272 | Large Deformation Image Registration with Anatomy-Aware Laplacian Pyramid Networks. <i>Lecture Notes in Computer Science</i> , 2021, , 61-67. | 1.0 | 6 |
| 273 | Discrete Unsupervised 3D Registration Methods for the Learn2Reg Challenge. <i>Lecture Notes in Computer Science</i> , 2021, , 68-73. | 1.0 | 0 |
| 274 | Motion-compensated noninvasive periodontal health monitoring using handheld and motor-based photoacoustic-ultrasound imaging systems. <i>Biomedical Optics Express</i> , 2021, 12, 1543. | 1.5 | 29 |
| 275 | Adaptive Weighting Landmark-Based Group-Wise Registration on Lung DCE-MRI Images. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 673-687. | 5.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 276 | A System-Agnostic, Adaptable and Extensible Animal Support Cradle System for Cardio-Respiratory-Synchronised, and Other, Multi-Modal Imaging of Small Animals. Tomography, 2021, 7, 39-54. | 0.8 | 1 |
| 277 | Technical Note: Fully automatic segmental relaxometry (FASTR) for cardiac magnetic resonance T1 mapping. Medical Physics, 2021, 48, 1815-1822. | 1.6 | 2 |
| 278 | Improving deformable image registration with point metric and masking technique for postoperative breast cancer radiotherapy. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1196-1208. | 1.1 | 7 |
| 279 | Unimodal Cyclic Regularization For Training Multimodal Image Registration Networks. , 2021, 2021, . | | 2 |
| 280 | 3D ultrasound guided navigation system with hybrid image fusion. Scientific Reports, 2021, 11, 8838. | 1.6 | 1 |
| 281 | F3RNet: full-resolution residual registration network for deformable image registration. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 923-932. | 1.7 | 9 |
| 282 | Regional Localization of Mouse Brain Slices Based on Unified Modal Transformation. Symmetry, 2021, 13, 929. | 1.1 | 0 |
| 283 | Deep learning based data-adaptive descriptor for non-rigid multi-modal medical image registration. Signal Processing, 2021, 183, 108023. | 2.1 | 12 |
| 284 | Unsupervised Multimodal Image Registration with Adaptive Gradient Guidance. , 2021, 2021, . | | 5 |
| 285 | Introduction of human-centric AI assistant to aid radiologists for multimodal breast image classification. International Journal of Human Computer Studies, 2021, 150, 102607. | 3.7 | 45 |
| 286 | Anatomy-guided multimodal registration by learning segmentation without ground truth: Application to intraprocedural CBCT/MR liver segmentation and registration. Medical Image Analysis, 2021, 71, 102041. | 7.0 | 36 |
| 287 | Multi-modal image registration in the presence of spatially varying intensity distortion using structural representation. Multimedia Tools and Applications, 2021, 80, 33885-33909. | 2.6 | 0 |
| 288 | Scalable quorum-based deep neural networks with adversarial learning for automated lung lobe segmentation in fast helical free-breathing CTs. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1775-1784. | 1.7 | 2 |
| 289 | GraphRegNet: Deep Graph Regularisation Networks on Sparse Keypoints for Dense Registration of 3D Lung CTs. IEEE Transactions on Medical Imaging, 2021, 40, 2246-2257. | 5.4 | 30 |
| 290 | Textured-Based Deep Learning in Prostate Cancer Classification with 3T Multiparametric MRI: Comparison with PI-RADS-Based Classification. Diagnostics, 2021, 11, 1785. | 1.3 | 13 |
| 291 | Deep learning methods to generate synthetic CT from MRI in radiotherapy: A literature review. Physica Medica, 2021, 89, 265-281. | 0.4 | 89 |
| 292 | Hierarchical registration of brain images based on B-splines and Laplacian commutators. Optik, 2021, 241, 167022. | 1.4 | 2 |
| 293 | Noise Reduction for SD-OCT Using a Structure-Preserving Domain Transfer Approach. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3460-3472. | 3.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 294 | A review of multimodal image matching: Methods and applications. Information Fusion, 2021, 73, 22-71. | 11.7 | 209 |
| 296 | Modality-agnostic self-supervised deep feature learning and fast instance optimisation for multimodal fusion in ultrasound-guided interventions. Computer Methods and Programs in Biomedicine, 2021, 211, 106374. | 2.6 | 1 |
| 297 | Real-time multimodal image registration with partial intraoperative point-set data. Medical Image Analysis, 2021, 74, 102231. | 7.0 | 14 |
| 298 | Multi-scale Neural ODEs for 3D Medical Image Registration. Lecture Notes in Computer Science, 2021, , 213-223. | 1.0 | 6 |
| 299 | Construction and validation of a cerebral white matter hyperintensity probability map of older Koreans. NeuroImage: Clinical, 2021, 30, 102607. | 1.4 | 3 |
| 300 | SynthMorph: Learning Contrast-Invariant Registration Without Acquired Images. IEEE Transactions on Medical Imaging, 2022, 41, 543-558. | 5.4 | 42 |
| 301 | TPSDicyc: Improved Deformation Invariant Cross-domain Medical Image Synthesis. Lecture Notes in Computer Science, 2019, , 245-254. | 1.0 | 14 |
| 302 | JSSR: A Joint Synthesis, Segmentation, and Registration System for 3D Multi-modal Image Alignment of Large-Scale Pathological CT Scans. Lecture Notes in Computer Science, 2020, , 257-274. | 1.0 | 7 |
| 303 | Adversarial Uni- and Multi-modal Stream Networks for Multimodal Image Registration. Lecture Notes in Computer Science, 2020, 12263, 222-232. | 1.0 | 39 |
| 304 | Improving Probabilistic Image Registration via Reinforcement Learning and Uncertainty Evaluation. Lecture Notes in Computer Science, 2013, , 187-194. | 1.0 | 18 |
| 305 | Corpus Callosum Segmentation in MS Studies Using Normal Atlases and Optimal Hybridization of Extrinsic and Intrinsic Image Cues. Lecture Notes in Computer Science, 2015, , 123-131. | 1.0 | 3 |
| 306 | Correlating Tumour Histology and ex vivo MRI Using Dense Modality-Independent Patch-Based Descriptors. Lecture Notes in Computer Science, 2015, , 137-145. | 1.0 | 3 |
| 307 | Accuracy Estimation for Medical Image Registration Using Regression Forests. Lecture Notes in Computer Science, 2016, , 107-115. | 1.0 | 16 |
| 308 | Edge- and Detail-Preserving Sparse Image Representations for Deformable Registration of Chest MRI and CT Volumes. Lecture Notes in Computer Science, 2013, 23, 463-474. | 1.0 | 11 |
| 309 | Random Walks with Efficient Search and Contextually Adapted Image Similarity for Deformable Registration. Lecture Notes in Computer Science, 2013, 16, 43-50. | 1.0 | 8 |
| 310 | Towards Realtime Multimodal Fusion for Image-Guided Interventions Using Self-similarities. Lecture Notes in Computer Science, 2013, 16, 187-194. | 1.0 | 104 |
| 311 | Rigid Registration of Untracked Freehand 2D Ultrasound Sweeps to 3D CT of Liver Tumours. Lecture Notes in Computer Science, 2013, , 155-164. | 1.0 | 7 |
| 312 | Self Similarity Image Registration Based on Reorientation of the Hessian. Lecture Notes in Computer Science, 2013, , 20-28. | 1.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 313 | Free-breathing Functional Pulmonary MRI. <i>Academic Radiology</i> , 2017, 24, 1268-1276. | 1.3 | 27 |
| 314 | Anatomically-adaptive multi-modal image registration for image-guided external-beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 215028. | 1.6 | 12 |
| 317 | Supervoxels for graph cuts-based deformable image registration using guided image filtering. <i>Journal of Electronic Imaging</i> , 2017, 26, 1. | 0.5 | 8 |
| 318 | Error estimation of deformable image registration of pulmonary CT scans using convolutional neural networks. <i>Journal of Medical Imaging</i> , 2018, 5, 1. | 0.8 | 43 |
| 319 | A hybrid segmentation method for partitioning the liver based on 4D DCE-MR Images. , 2018, , . | | 3 |
| 320 | Local-search based prediction of medical image registration error. , 2018, , . | | 7 |
| 321 | Inter-scanner variation independent descriptors for constrained diffeomorphic demons registration of retina OCT. , 2018, 10574, . | | 2 |
| 322 | Semi-automated myocardial segmentation of T1-mapping cardiovascular magnetic resonance images using deformable non-rigid registration from CINE images. , 2019, , . | | 2 |
| 323 | A Neonatal Bimodal MR-CT Head Template. <i>PLoS ONE</i> , 2017, 12, e0166112. | 1.1 | 7 |
| 324 | Similarity Measure with Additional Modality Information for Multimodal Remote Sensing Images. , 2021, , . | | 1 |
| 325 | Motion Correction of Intravital Microscopy of Preclinical Lung Tumour Imaging Using Multichannel Structural Image Descriptor. <i>Lecture Notes in Computer Science</i> , 2014, , 164-173. | 1.0 | 1 |
| 326 | Deformable Registration of Multi-modal Microscopic Images Using a Pyramidal Interactive Registration-Learning Methodology. <i>Lecture Notes in Computer Science</i> , 2014, , 144-153. | 1.0 | 5 |
| 327 | Multi-modal Brain Image Registration Based on Subset Definition and Manifold-to-Manifold Distance. <i>Lecture Notes in Computer Science</i> , 2015, , 538-546. | 1.0 | 0 |
| 328 | A Self-learning Tumor Segmentation Method on DCE-MRI Images. <i>Lecture Notes in Computer Science</i> , 2016, , 591-598. | 1.0 | 0 |
| 329 | Comparison of Self-similarity Measures for Multi-modal Non-rigid Registration of 3D-PLI Brain Images. <i>Informatik Aktuell</i> , 2018, , 49-54. | 0.4 | 0 |
| 330 | Real-time image-based 3D-2D registration for ultrasound-guided spinal interventions. , 2018, , . | | 0 |
| 332 | Development of a pulmonary imaging biomarker pipeline for phenotyping of chronic lung disease. <i>Journal of Medical Imaging</i> , 2018, 5, 1. | 0.8 | 4 |
| 333 | Correspondence-Steered Volumetric Descriptor Learning Using Deep Functional Maps. <i>Lecture Notes in Computer Science</i> , 2019, , 247-255. | 1.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 335 | 3D Mapping of Serial Histology Sections with Anomalies Using a Novel Robust Deformable Registration Algorithm. Lecture Notes in Computer Science, 2019, , 162-173. | 1.0 | 8 |
| 336 | Development and evaluation of pulmonary imaging multi-parametric response maps for deep phenotyping of chronic obstructive pulmonary disease. , 2019, , . | | 0 |
| 339 | High-Order Markov Random Field Based Image Registration for Pulmonary CT. Communications in Computer and Information Science, 2020, , 339-350. | 0.4 | 0 |
| 340 | Unsupervised Learning-Based Nonrigid Registration of High Resolution Histology Images. Lecture Notes in Computer Science, 2020, , 484-493. | 1.0 | 2 |
| 342 | The Feasibility of Haar Feature-Based Endoscopic Ultrasound Probe Tracking for Implanting Hydrogel Spacer in Radiation Therapy for Pancreatic Cancer. Frontiers in Oncology, 2021, 11, 759811. | 1.3 | 8 |
| 343 | Explore Better Network Framework for High-Resolution Optical and SAR Image Matching. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18. | 2.7 | 10 |
| 344 | Pulmonary functional <scp>MRI</scp>: Detecting the <scp>structureâ€“function</scp> pathologies that drive asthma symptoms and <scp>quality of life</scp>. Respirology, 2022, 27, 114-133. | 1.3 | 12 |
| 346 | Method for counting labeled neurons in mouse brain regions based on image representation and registration. Medical and Biological Engineering and Computing, 2022, 60, 487-500. | 1.6 | 1 |
| 347 | Unsupervised Multi-modality Registration Network Based on Spatially Encoded Gradient Information. Lecture Notes in Computer Science, 2022, , 151-159. | 1.0 | 2 |
| 348 | Two-Step Registration on Multi-Modal Retinal Images via Deep Neural Networks. IEEE Transactions on Image Processing, 2022, 31, 823-838. | 6.0 | 16 |
| 349 | Cross-Modality Multi-Atlas Segmentation via Deep Registration and Label Fusion. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3104-3115. | 3.9 | 2 |
| 350 | Exhaustive Search of Correspondences between Multimodal Remote Sensing Images Using Convolutional Neural Network. Sensors, 2022, 22, 1231. | 2.1 | 5 |
| 351 | Multimodal MRI Reconstruction Assisted With Spatial Alignment Network. IEEE Transactions on Medical Imaging, 2022, 41, 2499-2509. | 5.4 | 7 |
| 352 | Deep Volumetric Descriptor Learning for Dense Correspondence of Cone-Beam Computed Tomography via Spectral Maps. IEEE Transactions on Medical Imaging, 2022, 41, 2157-2169. | 5.4 | 0 |
| 354 | Conditional Deep Laplacian Pyramid Image Registration Network in Learn2Reg Challenge. Lecture Notes in Computer Science, 2022, , 161-167. | 1.0 | 1 |
| 355 | Symmetry-based representation for registration of multimodal images. Medical and Biological Engineering and Computing, 2022, 60, 1015-1032. | 1.6 | 4 |
| 356 | Rotation-Invariant Self-Similarity Descriptor for Multi-Temporal Remote Sensing Image Registration. Photogrammetric Record, 2022, 37, 6-34. | 0.4 | 6 |
| 358 | A Multiscale Framework With Unsupervised Learning for Remote Sensing Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 2.7 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 362 | Uniqueness Metric for Comparison of Dense Image Descriptors. , 2022, , . | | 0 |
| 363 | Fusion-Based Multimodal Medical Image Registration Combining Inter-Modality Metric and Disentanglement. , 2022, , . | | 1 |
| 365 | Functional Lung Avoidance for Individualized Radiation Therapy: Results of a Double-Masked, Randomized Controlled Trial. International Journal of Radiation Oncology Biology Physics, 2022, 113, 1072-1084. | 0.4 | 7 |
| 366 | A robust multimodal remote sensing image registration method and system using steerable filters with first- and second-order gradients. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 331-350. | 4.9 | 60 |
| 367 | Fast computation of mutual information in the frequency domain with applications to global multimodal image alignment. Pattern Recognition Letters, 2022, 159, 196-203. | 2.6 | 6 |
| 368 | Joint synthesis and registration network for deformable MR-CBCT image registration for neurosurgical guidance. Physics in Medicine and Biology, 2022, 67, 125008. | 1.6 | 9 |
| 369 | A Comparison Study Between CNN-Based Deformed Planning CT and CycleGAN-Based Synthetic CT Methods for Improving iCBCT Image Quality. Frontiers in Oncology, 0, 12, . | 1.3 | 7 |
| 370 | CoCycleReg: Collaborative cycle-consistency method for multi-modal medical image registration. Neurocomputing, 2022, 500, 799-808. | 3.5 | 8 |
| 371 | MASS: Modality-collaborative semi-supervised segmentation by exploiting cross-modal consistency from unpaired CT and MRI images. Medical Image Analysis, 2022, 80, 102506. | 7.0 | 8 |
| 372 | Multimodal registration across 3D point clouds and CT-volumes. Computers and Graphics, 2022, 106, 259-266. | 1.4 | 6 |
| 373 | Salient deformable network for abdominal multiorgan registration. Medical Physics, 0, , . | 1.6 | 1 |
| 374 | Multimodal image synthesis based on disentanglement representations of anatomical and modality specific features, learned using uncooperative relativistic GAN. Medical Image Analysis, 2022, 80, 102514. | 7.0 | 8 |
| 375 | An improved multi-modal joint segmentation and registration model based on Bhattacharyya distance measure. AEJ - Alexandria Engineering Journal, 2022, 61, 12353-12365. | 3.4 | 6 |
| 378 | Unsupervised-learning-based method for chest MRIâ€“CT transformation using structure constrained unsupervised generative attention networks. Scientific Reports, 2022, 12, . | 1.6 | 9 |
| 379 | Non-rigid multi-modal brain image registration based on two-stage generative adversarial nets. Neurocomputing, 2022, 505, 44-57. | 3.5 | 1 |
| 380 | Estimating medical image registration error and confidence: A taxonomy and scoping review. Medical Image Analysis, 2022, 81, 102531. | 7.0 | 7 |
| 381 | Abdominopelvic MR to CT registration using a synthetic CT intermediate. Journal of Applied Clinical Medical Physics, 2022, 23, . | 0.8 | 1 |
| 383 | Quantification of pulmonary functional MRI: state-of-the-art and emerging image processing methods and measurements. Physics in Medicine and Biology, 2022, 67, 22TR01. | 1.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 384 | Cross-modal attention for multi-modal image registration. <i>Medical Image Analysis</i> , 2022, 82, 102612. | 7.0 | 16 |
| 385 | Learning-Based US-MR Liver Image Registration with Spatial Priors. <i>Lecture Notes in Computer Science</i> , 2022, , 174-184. | 1.0 | 4 |
| 386 | Measurement and Analysis of Lobar Lung Deformation After a Change of Patient Position During Video-Assisted Thoracoscopic Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 931-940. | 2.5 | 1 |
| 387 | ContraReg: Contrastive Learning of Multi-modality Unsupervised Deformable Image Registration. <i>Lecture Notes in Computer Science</i> , 2022, , 66-77. | 1.0 | 3 |
| 388 | Optical and SAR Image Registration Based on Feature Decoupling Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13. | 2.7 | 25 |
| 389 | A Robust Descriptor Based on Modality-Independent Neighborhood Information for Optical-SAR Image Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5. | 1.4 | 0 |
| 390 | Learning Iterative Optimisation for Deformable Image Registration of Lung CT with Recurrent Convolutional Networks. <i>Lecture Notes in Computer Science</i> , 2022, , 301-309. | 1.0 | 1 |
| 391 | Point Pairs Optimization for Piecewise Linear Transformation of Multimodal Remote Sensing Images by the Similarity of Log-Gabor Features. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5. | 1.4 | 0 |
| 392 | End-to-End Multi-Slice-to-Volume Concurrent Registration and Multimodal Generation. <i>Lecture Notes in Computer Science</i> , 2022, , 152-162. | 1.0 | 1 |
| 393 | Double-Uncertainty Guided Spatial and Temporal Consistency Regularization Weighting for Learning-Based Abdominal Registration. <i>Lecture Notes in Computer Science</i> , 2022, , 14-24. | 1.0 | 5 |
| 394 | Deep Modality Independent Descriptor Learning for Optical and SAR Image Patch Matching. , 2022, , . | | 1 |
| 396 | DiffeoRaptor: diffeomorphic inter-modal image registration using RaPTOR. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 0, , . | 1.7 | 0 |
| 397 | CrossMoDA 2021 challenge: Benchmark of cross-modality domain adaptation techniques for vestibular schwannoma and cochlea segmentation. <i>Medical Image Analysis</i> , 2023, 83, 102628. | 7.0 | 25 |
| 398 | Artificial Intelligence for Image Registration in Radiation Oncology. <i>Seminars in Radiation Oncology</i> , 2022, 32, 330-342. | 1.0 | 6 |
| 399 | Deep Supervoxel Mapping Learning for Dense Correspondence of Cone-Beam Computed Tomography. <i>Lecture Notes in Computer Science</i> , 2022, , 417-427. | 1.0 | 1 |
| 400 | Magnetic Resonance-Guided Adaptive Radiotherapy: Technical Concepts. , 2022, , 135-158. | | 0 |
| 401 | DeepEnReg: Joint Enhancement and Affine Registration for Low-contrast Medical Images. <i>Lecture Notes in Computer Science</i> , 2022, , 152-163. | 1.0 | 0 |
| 402 | The application of multiple metrics in deformable image registration for target volume delineation of breast tumor bed. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, . | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 403 | A Deep Learning Segmentation Pipeline for Cardiac T1 Mapping Using MRI Relaxation-based Synthetic Contrast Augmentation. <i>Radiology: Artificial Intelligence</i> , 2022, 4, . | 3.0 | 1 |
| 404 | Diffusion MRI anisotropy in the cerebral cortex is determined by unmyelinated tissue features. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 8 |
| 405 | Unsupervised historical map registration by a deformation neural network. , 2022, , . | | 1 |
| 406 | Mathcal {X}-Metric: An N-Dimensional Information-Theoretic Framework for Groupwise Registration and Deep Combined Computing. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2023, 45, 9206-9224. | 9.7 | 8 |
| 407 | Tensor image registration library: Deformable registration of standalone histology images to whole-brain post-mortem MRI data. <i>NeuroImage</i> , 2023, 265, 119792. | 2.1 | 6 |
| 408 | Similarity attention-based CNN for robust 3D medical image registration. <i>Biomedical Signal Processing and Control</i> , 2023, 81, 104403. | 3.5 | 6 |
| 409 | Ultrasound Frame-to-Volume Registration via Deep Learning for Interventional Guidance. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2023, 70, 1016-1025. | 1.7 | 0 |
| 410 | Individualized Statistical Modeling of Lesions in Fundus Images for Anomaly Detection. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 1185-1196. | 5.4 | 0 |
| 411 | Is image-to-image translation the panacea for multimodal image registration? A comparative study. <i>PLoS ONE</i> , 2022, 17, e0276196. | 1.1 | 9 |
| 412 | Review of Generative Adversarial Networks in mono- and cross-modal biomedical image registration. <i>Frontiers in Neuroinformatics</i> , 0, 16, . | 1.3 | 2 |
| 413 | Motion Compensation for 3D Multispectral Handheld Photoacoustic Imaging. <i>Biosensors</i> , 2022, 12, 1092. | 2.3 | 3 |
| 414 | A Topology Based Automatic Registration Method for Infrared and Polarized Coupled Imaging. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 12596. | 1.3 | 1 |
| 415 | Projective diffeomorphic mapping of molecular digital pathology with tissue MRI. , 2022, 1, . | | 3 |
| 416 | Optical and SAR Image Dense Registration Using a Robust Deep Optical Flow Framework. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2023, 16, 1269-1294. | 2.3 | 7 |
| 417 | Reverse-Net: Few-Shot Learning with Reverse Teaching for Deformable Medical Image Registration. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 1040. | 1.3 | 0 |
| 418 | Interpretable Multi-Modal Image Registration Network Based on Disentangled Convolutional Sparse Coding. <i>IEEE Transactions on Image Processing</i> , 2023, 32, 1078-1091. | 6.0 | 32 |
| 419 | Few-shot multi-modal registration with mono-modal knowledge transfer. <i>Biomedical Signal Processing and Control</i> , 2023, 85, 104958. | 3.5 | 1 |
| 420 | Dose accumulation for MR-guided adaptive radiotherapy: From practical considerations to state-of-the-art clinical implementation. <i>Frontiers in Oncology</i> , 0, 12, . | 1.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 421 | Detecting and quantifying spatial misalignment between longitudinal kilovoltage computed tomography (kVCT) scans of the head and neck by using convolutional neural networks (CNNs). <i>Technology and Health Care</i> , 2023, , 1-14. | 0.5 | 0 |
| 422 | Multimodal registration of ultrasound and MR images using weighted self-similarity structure vector. <i>Computers in Biology and Medicine</i> , 2023, 155, 106661. | 3.9 | 3 |
| 423 | Free form deformation and symmetry constraint-based multi-modal brain image registration using generative adversarial nets. <i>CAAI Transactions on Intelligence Technology</i> , 2023, 8, 1492-1506. | 3.4 | 1 |
| 424 | Robust and Realtime Large Deformation Ultrasound Registration Using End-to-End Differentiable Displacement Optimisation. <i>Sensors</i> , 2023, 23, 2876. | 2.1 | 1 |
| 425 | OMIRD: Orientated Modality Independent Region Descriptor for Optical-to-SAR Image Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2023, 20, 1-5. | 1.4 | 0 |
| 426 | Inter-fraction deformable image registration using unsupervised deep learning for CBCT-guided abdominal radiotherapy. <i>Physics in Medicine and Biology</i> , 2023, 68, 095003. | 1.6 | 1 |
| 427 | A robust and automatic CT-to-ultrasound registration method based on segmentation, context, and edge hybrid metric. <i>Medical Physics</i> , 0, , . | 1.6 | 0 |
| 429 | Highly accurate deep registration networks for large deformation estimation in compression ultrasound. , 2023, , . | | 1 |
| 430 | Patch-RegNet: a hierarchical deformable registration framework for inter-/intra-modality head-and-neck image registration with ViT-Morph. , 2023, , . | | 0 |
| 431 | Small Zoom Mismatch Adjustment Method for Dual-Band Fusion Imaging System Based on Edge-Gradient Normalized Mutual Information. <i>Sensors</i> , 2023, 23, 3922. | 2.1 | 0 |
| 442 | Deep learning contributions for reducing the complexity of prostate biomechanical models. , 2023, , 271-292. | | 0 |
| 457 | Indescribable Multi-Modal Spatial Evaluator. , 2023, , . | | 2 |
| 462 | Graph matching and registration. , 2024, , 303-329. | | 0 |
| 463 | DISA: Differentiable Similarity Approximation for Universal Multimodal Registration. <i>Lecture Notes in Computer Science</i> , 2023, , 761-770. | 1.0 | 0 |
| 464 | SAMConvex: Fast Discrete Optimization for ACT Registration Using Self-supervised Anatomical Embedding and Correlation Pyramid. <i>Lecture Notes in Computer Science</i> , 2023, , 559-569. | 1.0 | 0 |
| 465 | Unsupervised 3D Registration Through Optimization-Guided Cyclical Self-training. <i>Lecture Notes in Computer Science</i> , 2023, , 677-687. | 1.0 | 0 |
| 466 | A Denoised Mean Teacher for Domain Adaptive Point Cloud Registration. <i>Lecture Notes in Computer Science</i> , 2023, , 666-676. | 1.0 | 0 |
| 467 | StructuRegNet: Structure-Guided Multimodal 2D-3D Registration. <i>Lecture Notes in Computer Science</i> , 2023, , 771-780. | 1.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 475 | MAD: Modality Agnostic Distance Measure for Image Registration. Lecture Notes in Computer Science, 2023, , 147-156. | 1.0 | 0 |
| 476 | A Hierarchical Descriptor Framework for On-the-Fly Anatomical Location Matching Between Longitudinal Studies. Lecture Notes in Computer Science, 2023, , 59-68. | 1.0 | 0 |