

Pew-Thian Yap

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7893848/publications.pdf>

Version: 2024-02-01

425
papers

26,541
citations

4658

85
h-index

8396

147
g-index

436
all docs

436
docs citations

436
times ranked

18952
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Deep Learning in Medical Image Analysis. Annual Review of Biomedical Engineering, 2017, 19, 221-248. | 12.3 | 2,935 |
| 2 | Multimodal classification of Alzheimer's disease and mild cognitive impairment. NeuroImage, 2011, 55, 856-867. | 4.2 | 1,081 |
| 3 | HAMMER: hierarchical attribute matching mechanism for elastic registration. IEEE Transactions on Medical Imaging, 2002, 21, 1421-1439. | 8.9 | 953 |
| 4 | Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. NeuroImage, 2014, 101, 569-582. | 4.2 | 732 |
| 5 | Image analysis by krawtchouk moments. IEEE Transactions on Image Processing, 2003, 12, 1367-1377. | 9.8 | 545 |
| 6 | Infant Brain Atlases from Neonates to 1- and 2-Year-Olds. PLoS ONE, 2011, 6, e18746. | 2.5 | 458 |
| 7 | Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730. | 4.2 | 392 |
| 8 | Identification of MCI individuals using structural and functional connectivity networks. NeuroImage, 2012, 59, 2045-2056. | 4.2 | 334 |
| 9 | Landmark-based deep multi-instance learning for brain disease diagnosis. Medical Image Analysis, 2018, 43, 157-168. | 11.6 | 302 |
| 10 | Hierarchical Fully Convolutional Network for Joint Atrophy Localization and Alzheimer's Disease Diagnosis Using Structural MRI. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 880-893. | 13.9 | 298 |
| 11 | Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. Cerebral Cortex, 2015, 25, 2204-2212. | 2.9 | 286 |
| 12 | The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. NeuroImage, 2019, 185, 891-905. | 4.2 | 234 |
| 13 | Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. Human Brain Mapping, 2013, 34, 3411-3425. | 3.6 | 215 |
| 14 | LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. IEEE Transactions on Medical Imaging, 2015, 34, 2459-2466. | 8.9 | 214 |
| 15 | Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. IEEE Transactions on Biomedical Engineering, 2016, 63, 1505-1516. | 4.2 | 212 |
| 16 | Two-Dimensional Polar Harmonic Transforms for Invariant Image Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1259-1270. | 13.9 | 208 |
| 17 | LINKS: Learning-based multi-source IntegratiON framework for Segmentation of infant brain images. NeuroImage, 2015, 108, 160-172. | 4.2 | 208 |
| 18 | Estimating CT Image From MRI Data Using Structured Random Forest and Auto-Context Model. IEEE Transactions on Medical Imaging, 2016, 35, 174-183. | 8.9 | 205 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016, 37, 3282-3296. | 3.6 | 204 |
| 20 | Mapping Region-Specific Longitudinal Cortical Surface Expansion from Birth to 2 Years of Age. <i>Cerebral Cortex</i> , 2013, 23, 2724-2733. | 2.9 | 203 |
| 21 | Mapping Longitudinal Development of Local Cortical Gyrfication in Infants from Birth to 2 Years of Age. <i>Journal of Neuroscience</i> , 2014, 34, 4228-4238. | 3.6 | 203 |
| 22 | BIRNet: Brain image registration using dual-supervised fully convolutional networks. <i>Medical Image Analysis</i> , 2019, 54, 193-206. | 11.6 | 199 |
| 23 | Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. <i>NeuroImage</i> , 2014, 84, 466-475. | 4.2 | 198 |
| 24 | Joint Classification and Regression via Deep Multi-Task Multi-Channel Learning for Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1195-1206. | 4.2 | 194 |
| 25 | Enriched white matter connectivity networks for accurate identification of MCI patients. <i>NeuroImage</i> , 2011, 54, 1812-1822. | 4.2 | 191 |
| 26 | Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 607-618. | 4.2 | 181 |
| 27 | Image Analysis Using Hahn Moments. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007, 29, 2057-2062. | 13.9 | 180 |
| 28 | Neonatal brain image segmentation in longitudinal MRI studies. <i>NeuroImage</i> , 2010, 49, 391-400. | 4.2 | 177 |
| 29 | A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , 2017, 38, 205-214. | 11.6 | 176 |
| 30 | Effective feature learning and fusion of multimodality data using stage-wise deep neural network for dementia diagnosis. <i>Human Brain Mapping</i> , 2019, 40, 1001-1016. | 3.6 | 171 |
| 31 | Development Trends of White Matter Connectivity in the First Years of Life. <i>PLoS ONE</i> , 2011, 6, e24678. | 2.5 | 167 |
| 32 | Relationship Induced Multi-Template Learning for Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1463-1474. | 8.9 | 165 |
| 33 | Segmentation of neonatal brain MR images using patch-driven level sets. <i>NeuroImage</i> , 2014, 84, 141-158. | 4.2 | 161 |
| 34 | Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. <i>Brain Structure and Function</i> , 2014, 219, 641-656. | 2.3 | 160 |
| 35 | Detecting Anatomical Landmarks for Fast Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2524-2533. | 8.9 | 158 |
| 36 | Abnormal lung quantification in chest CT images of COVID-19 patients with deep learning and its application to severity prediction. <i>Medical Physics</i> , 2021, 48, 1633-1645. | 3.0 | 154 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Sparse temporally dynamic resting-state functional connectivity networks for early MCI identification. <i>Brain Imaging and Behavior</i> , 2016, 10, 342-356. | 2.1 | 153 |
| 38 | Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. <i>Lecture Notes in Computer Science</i> , 2016, 2016, 170-178. | 1.3 | 151 |
| 39 | Multi-task learning for segmentation and classification of tumors in 3D automated breast ultrasound images. <i>Medical Image Analysis</i> , 2021, 70, 101918. | 11.6 | 151 |
| 40 | Spatial Patterns, Longitudinal Development, and Hemispheric Asymmetries of Cortical Thickness in Infants from Birth to 2 Years of Age. <i>Journal of Neuroscience</i> , 2015, 35, 9150-9162. | 3.6 | 148 |
| 41 | Domain Transfer Learning for MCI Conversion Prediction. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1805-1817. | 4.2 | 148 |
| 42 | LABEL: Pediatric brain extraction using learning-based meta-algorithm. <i>NeuroImage</i> , 2012, 62, 1975-1986. | 4.2 | 147 |
| 43 | Detecting Anatomical Landmarks From Limited Medical Imaging Data Using Two-Stage Task-Oriented Deep Neural Networks. <i>IEEE Transactions on Image Processing</i> , 2017, 26, 4753-4764. | 9.8 | 145 |
| 44 | Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 175-182. | 3.0 | 143 |
| 45 | Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. <i>Medical Image Analysis</i> , 2018, 47, 31-44. | 11.6 | 137 |
| 46 | 3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1123-1136. | 9.5 | 133 |
| 47 | Resting-State Multi-Spectrum Functional Connectivity Networks for Identification of MCI Patients. <i>PLoS ONE</i> , 2012, 7, e37828. | 2.5 | 127 |
| 48 | Computational neuroanatomy of baby brains: A review. <i>NeuroImage</i> , 2019, 185, 906-925. | 4.2 | 125 |
| 49 | Latent Representation Learning for Alzheimer's Disease Diagnosis With Incomplete Multi-Modality Neuroimaging and Genetic Data. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2411-2422. | 8.9 | 124 |
| 50 | Integration of temporal and spatial properties of dynamic connectivity networks for automatic diagnosis of brain disease. <i>Medical Image Analysis</i> , 2018, 47, 81-94. | 11.6 | 123 |
| 51 | Multivariate examination of brain abnormality using both structural and functional MRI. <i>NeuroImage</i> , 2007, 36, 1189-1199. | 4.2 | 121 |
| 52 | Mapping Longitudinal Hemispheric Structural Asymmetries of the Human Cerebral Cortex From Birth to 2 Years of Age. <i>Cerebral Cortex</i> , 2014, 24, 1289-1300. | 2.9 | 121 |
| 53 | Alzheimer's Disease Diagnosis Using Landmark-Based Features From Longitudinal Structural MR Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 1607-1616. | 6.3 | 121 |
| 54 | Deformable Image Registration Based on Similarity-Steered CNN Regression. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 300-308. | 1.3 | 121 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Image registration by local histogram matching. <i>Pattern Recognition</i> , 2007, 40, 1161-1172. | 8.1 | 120 |
| 56 | Iterative multi-atlas-based multi-image segmentation with tree-based registration. <i>NeuroImage</i> , 2012, 59, 422-430. | 4.2 | 119 |
| 57 | Altered structural connectivity in neonates at genetic risk for schizophrenia: A combined study using morphological and white matter networks. <i>NeuroImage</i> , 2012, 62, 1622-1633. | 4.2 | 114 |
| 58 | Manifold regularized multitask feature learning for multimodality disease classification. <i>Human Brain Mapping</i> , 2015, 36, 489-507. | 3.6 | 114 |
| 59 | Anatomical Landmark Based Deep Feature Representation for MR Images in Brain Disease Diagnosis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1476-1485. | 6.3 | 114 |
| 60 | White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. <i>NeuroImage</i> , 2009, 47, 1154-1162. | 4.2 | 113 |
| 61 | Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. <i>NeuroImage</i> , 2014, 90, 266-279. | 4.2 | 113 |
| 62 | Hyper-connectivity of functional networks for brain disease diagnosis. <i>Medical Image Analysis</i> , 2016, 32, 84-100. | 11.6 | 113 |
| 63 | View-aligned hypergraph learning for Alzheimer's disease diagnosis with incomplete multi-modality data. <i>Medical Image Analysis</i> , 2017, 36, 123-134. | 11.6 | 113 |
| 64 | Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. <i>Medical Image Analysis</i> , 2015, 25, 22-36. | 11.6 | 112 |
| 65 | Unaffected Family Members and Schizophrenia Patients Share Brain Structure Patterns: A High-Dimensional Pattern Classification Study. <i>Biological Psychiatry</i> , 2008, 63, 118-124. | 1.3 | 111 |
| 66 | Structural and Maturation Covariance in Early Childhood Brain Development. <i>Cerebral Cortex</i> , 2017, 27, bhw022. | 2.9 | 111 |
| 67 | SharpMean: Groupwise registration guided by sharp mean image and tree-based registration. <i>NeuroImage</i> , 2011, 56, 1968-1981. | 4.2 | 110 |
| 68 | CLASSIC: Consistent Longitudinal Alignment and Segmentation for Serial Image Computing. <i>NeuroImage</i> , 2006, 30, 388-399. | 4.2 | 109 |
| 69 | Identifying Autism Spectrum Disorder With Multi-Site fMRI via Low-Rank Domain Adaptation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 644-655. | 8.9 | 109 |
| 70 | Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. <i>NeuroImage</i> , 2014, 100, 206-218. | 4.2 | 107 |
| 71 | A generative probability model of joint label fusion for multi-atlas based brain segmentation. <i>Medical Image Analysis</i> , 2014, 18, 881-890. | 11.6 | 107 |
| 72 | Strength and similarity guided group-level brain functional network construction for MCI diagnosis. <i>Pattern Recognition</i> , 2019, 88, 421-430. | 8.1 | 101 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | An adaptive-focus deformable model using statistical and geometric information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 906-913. | 13.9 | 100 |
| 74 | ABSORB: Atlas building by self-organized registration and bundling. NeuroImage, 2010, 51, 1057-1070. | 4.2 | 100 |
| 75 | Adversarial learning for mono- or multi-modal registration. Medical Image Analysis, 2019, 58, 101545. | 11.6 | 100 |
| 76 | Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. IEEE Transactions on Medical Imaging, 2020, 39, 478-487. | 8.9 | 100 |
| 77 | Longitudinal clinical score prediction in Alzheimer's disease with soft-split sparse regression based random forest. Neurobiology of Aging, 2016, 46, 180-191. | 3.1 | 99 |
| 78 | Symmetry detection by generalized complex (GC) moments: a close-form solution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1999, 21, 466-476. | 13.9 | 97 |
| 79 | Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. NeuroImage, 2010, 51, 684-693. | 4.2 | 96 |
| 80 | Consistent reconstruction of cortical surfaces from longitudinal brain MR images. NeuroImage, 2012, 59, 3805-3820. | 4.2 | 96 |
| 81 | Inherent Structure-Based Multiview Learning With Multitemplate Feature Representation for Alzheimer's Disease Diagnosis. IEEE Transactions on Biomedical Engineering, 2016, 63, 1473-1482. | 4.2 | 96 |
| 82 | Multimodality image registration by maximization of quantitative qualitative measure of mutual information. Pattern Recognition, 2008, 41, 285-298. | 8.1 | 95 |
| 83 | Learning-based deformable registration of MR brain images. IEEE Transactions on Medical Imaging, 2006, 25, 1145-1157. | 8.9 | 93 |
| 84 | Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. Medical Image Analysis, 2018, 46, 106-117. | 11.6 | 91 |
| 85 | Representation Learning: A Unified Deep Learning Framework for Automatic Prostate MR Segmentation. Lecture Notes in Computer Science, 2013, 16, 254-261. | 1.3 | 91 |
| 86 | View-centralized multi-atlas classification for Alzheimer's disease diagnosis. Human Brain Mapping, 2015, 36, 1847-1865. | 3.6 | 88 |
| 87 | Weakly Supervised Segmentation of COVID19 Infection with Scribble Annotation on CT Images. Pattern Recognition, 2022, 122, 108341. | 8.1 | 88 |
| 88 | Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. Medical Image Analysis, 2006, 10, 752-763. | 11.6 | 87 |
| 89 | Neurodegenerative disease diagnosis using incomplete multi-modality data via matrix shrinkage and completion. NeuroImage, 2014, 91, 386-400. | 4.2 | 87 |
| 90 | Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. NeuroImage, 2016, 141, 206-219. | 4.2 | 87 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Deformable Image Registration Using a Cue-Aware Deep Regression Network. IEEE Transactions on Biomedical Engineering, 2018, 65, 1900-1911. | 4.2 | 86 |
| 92 | Robust Deformable-Surface-Based Skull-Stripping for Large-Scale Studies. Lecture Notes in Computer Science, 2011, 14, 635-642. | 1.3 | 86 |
| 93 | Unsupervised Deep Feature Learning for Deformable Registration of MR Brain Images. Lecture Notes in Computer Science, 2013, 16, 649-656. | 1.3 | 85 |
| 94 | Connectivity strength-weighted sparse group representation-based brain network construction for M<sc>C</sc> classification. Human Brain Mapping, 2017, 38, 2370-2383. | 3.6 | 85 |
| 95 | Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. NeuroImage, 2006, 33, 855-866. | 4.2 | 84 |
| 96 | Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. Medical Image Analysis, 2006, 10, 740-751. | 11.6 | 80 |
| 97 | Knowledge-Guided Robust MRI Brain Extraction for Diverse Large-Scale Neuroimaging Studies on Humans and Non-Human Primates. PLoS ONE, 2014, 9, e77810. | 2.5 | 79 |
| 98 | Pelvic Organ Segmentation Using Distinctive Curve Guided Fully Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 585-595. | 8.9 | 79 |
| 99 | Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. NeuroImage, 2009, 46, 762-774. | 4.2 | 77 |
| 100 | Diagnosis of autism spectrum disorders using regional and interregional morphological features. Human Brain Mapping, 2014, 35, 3414-3430. | 3.6 | 77 |
| 101 | Registering Histologic and MR Images of Prostate for Image-based Cancer Detection. Academic Radiology, 2007, 14, 1367-1381. | 2.5 | 75 |
| 102 | Identification of infants at high-risk for autism spectrum disorder using multiparameter multiscale white matter connectivity networks. Human Brain Mapping, 2015, 36, 4880-4896. | 3.6 | 75 |
| 103 | RABBIT: Rapid alignment of brains by building intermediate templates. NeuroImage, 2009, 47, 1277-1287. | 4.2 | 74 |
| 104 | Spatial-Temporal Dependency Modeling and Network Hub Detection for Functional MRI Analysis via Convolutional-Recurrent Network. IEEE Transactions on Biomedical Engineering, 2020, 67, 2241-2252. | 4.2 | 74 |
| 105 | Deep Multi-Scale Mesh Feature Learning for Automated Labeling of Raw Dental Surfaces From 3D Intraoral Scanners. IEEE Transactions on Medical Imaging, 2020, 39, 2440-2450. | 8.9 | 74 |
| 106 | Diffusion tensor imaging based network analysis detects alterations of neuroconnectivity in patients with clinically early relapsing&remitting multiple sclerosis. Human Brain Mapping, 2013, 34, 3376-3391. | 3.6 | 73 |
| 107 | Development of cortical anatomical properties from early childhood to early adulthood. NeuroImage, 2013, 76, 216-224. | 4.2 | 72 |
| 108 | Conversion and time-to-conversion predictions of mild cognitive impairment using low-rank affinity pursuit denoising and matrix completion. Medical Image Analysis, 2018, 45, 68-82. | 11.6 | 72 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Sub-Network Kernels for Measuring Similarity of Brain Connectivity Networks in Disease Diagnosis. IEEE Transactions on Image Processing, 2018, 27, 2340-2353. | 9.8 | 72 |
| 110 | CT male pelvic organ segmentation using fully convolutional networks with boundary sensitive representation. Medical Image Analysis, 2019, 54, 168-178. | 11.6 | 72 |
| 111 | Hierarchical Anatomical Brain Networks for MCI Prediction: Revisiting Volumetric Measures. PLoS ONE, 2011, 6, e21935. | 2.5 | 72 |
| 112 | Disrupted Brain Functional Network in Internet Addiction Disorder: A Resting-State Functional Magnetic Resonance Imaging Study. PLoS ONE, 2014, 9, e107306. | 2.5 | 72 |
| 113 | A Mutual Multi-Scale Triplet Graph Convolutional Network for Classification of Brain Disorders Using Functional or Structural Connectivity. IEEE Transactions on Medical Imaging, 2021, 40, 1279-1289. | 8.9 | 71 |
| 114 | TSegNet: An efficient and accurate tooth segmentation network on 3D dental model. Medical Image Analysis, 2021, 69, 101949. | 11.6 | 69 |
| 115 | Longitudinally guided level sets for consistent tissue segmentation of neonates. Human Brain Mapping, 2013, 34, 956-972. | 3.6 | 66 |
| 116 | Multimodal hyper-connectivity of functional networks using functionally-weighted LASSO for MCI classification. Medical Image Analysis, 2019, 52, 80-96. | 11.6 | 66 |
| 117 | Invariant representation of orientation fields for fingerprint indexing. Pattern Recognition, 2012, 45, 2532-2542. | 8.1 | 65 |
| 118 | Multi-Domain Transfer Learning for Early Diagnosis of Alzheimer's Disease. Neuroinformatics, 2017, 15, 115-132. | 2.8 | 65 |
| 119 | Multi-site MRI harmonization via attention-guided deep domain adaptation for brain disorder identification. Medical Image Analysis, 2021, 71, 102076. | 11.6 | 65 |
| 120 | Diffusion Tensor Image Registration Using Tensor Geometry and Orientation Features. Lecture Notes in Computer Science, 2008, 11, 905-913. | 1.3 | 65 |
| 121 | Automated bone segmentation from dental CBCT images using patch-based sparse representation and convex optimization. Medical Physics, 2014, 41, 043503. | 3.0 | 64 |
| 122 | Matrix-Similarity Based Loss Function and Feature Selection for Alzheimer's Disease Diagnosis. , 2014, 2014, 3089-3096. | | 64 |
| 123 | Reconstruction of 7T-Like Images From 3T MRI. IEEE Transactions on Medical Imaging, 2016, 35, 2085-2097. | 8.9 | 63 |
| 124 | Adversarial Similarity Network for Evaluating Image Alignment in Deep Learning Based Registration. Lecture Notes in Computer Science, 2018, 11070, 739-746. | 1.3 | 63 |
| 125 | Multi-atlas based representations for Alzheimer's disease diagnosis. Human Brain Mapping, 2014, 35, 5052-5070. | 3.6 | 62 |
| 126 | Deep Learning Based Inter-modality Image Registration Supervised by Intra-modality Similarity. Lecture Notes in Computer Science, 2018, 11046, 55-63. | 1.3 | 62 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Weakly Supervised Deep Learning for Brain Disease Prognosis Using MRI and Incomplete Clinical Scores. <i>IEEE Transactions on Cybernetics</i> , 2019, 50, 1-12. | 9.5 | 61 |
| 128 | Dual-core steered non-rigid registration for multi-modal images via bi-directional image synthesis. <i>Medical Image Analysis</i> , 2017, 41, 18-31. | 11.6 | 60 |
| 129 | Multi-modal latent space inducing ensemble SVM classifier for early dementia diagnosis with neuroimaging data. <i>Medical Image Analysis</i> , 2020, 60, 101630. | 11.6 | 60 |
| 130 | Multiscale Adaptive Regression Models for Neuroimaging Data. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2011, 73, 559-578. | 2.2 | 59 |
| 131 | Diagnosis of Autism Spectrum Disorders Using Temporally Distinct Resting-state Functional Connectivity Networks. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 212-219. | 3.9 | 59 |
| 132 | Automated segmentation of dental CBCT image with prior-guided sequential random forests. <i>Medical Physics</i> , 2015, 43, 336-346. | 3.0 | 58 |
| 133 | Hypergraph learning for identification of COVID-19 with CT imaging. <i>Medical Image Analysis</i> , 2021, 68, 101910. | 11.6 | 56 |
| 134 | Large-scale dynamic causal modeling of major depressive disorder based on resting-state functional magnetic resonance imaging. <i>Human Brain Mapping</i> , 2020, 41, 865-881. | 3.6 | 52 |
| 135 | A toolbox for brain network construction and classification (BrainNetClass). <i>Human Brain Mapping</i> , 2020, 41, 2808-2826. | 3.6 | 52 |
| 136 | Spatially-Constrained Fisher Representation for Brain Disease Identification With Incomplete Multi-Modal Neuroimages. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2965-2975. | 8.9 | 52 |
| 137 | Determining Correspondence in 3-D MR Brain Images Using Attribute Vectors as Morphological Signatures of Voxels. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1276-1291. | 8.9 | 51 |
| 138 | TIMER: Tensor Image Morphing for Elastic Registration. <i>NeuroImage</i> , 2009, 47, 549-563. | 4.2 | 51 |
| 139 | Longitudinal development of cortical thickness, folding, and fiber density networks in the first 2 years of life. <i>Human Brain Mapping</i> , 2014, 35, 3726-3737. | 3.6 | 51 |
| 140 | Learning to Rank Atlases for Multiple-Atlas Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1939-1953. | 8.9 | 51 |
| 141 | Task-Induced Pyramid and Attention GAN for Multimodal Brain Image Imputation and Classification in Alzheimer's Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 36-43. | 6.3 | 51 |
| 142 | A Computational Growth Model for Measuring Dynamic Cortical Development in the First Year of Life. <i>Cerebral Cortex</i> , 2012, 22, 2272-2284. | 2.9 | 49 |
| 143 | Temporally Constrained Group Sparse Learning for Longitudinal Data Analysis in Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 238-249. | 4.2 | 49 |
| 144 | S-HAMMER: Hierarchical attribute-guided, symmetric diffeomorphic registration for MR brain images. <i>Human Brain Mapping</i> , 2014, 35, 1044-1060. | 3.6 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Automatic Craniomaxillofacial Landmark Digitization via Segmentation-Guided Partially-Joint Regression Forest Model and Multiscale Statistical Features. IEEE Transactions on Biomedical Engineering, 2016, 63, 1820-1829. | 4.2 | 47 |
| 146 | Building dynamic population graph for accurate correspondence detection. Medical Image Analysis, 2015, 26, 256-267. | 11.6 | 46 |
| 147 | STRAINet: Spatially Varying Stochastic Residual Adversarial Networks for MRI Pelvic Organ Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1552-1564. | 11.3 | 45 |
| 148 | Feature-based groupwise registration by hierarchical anatomical correspondence detection. Human Brain Mapping, 2012, 33, 253-271. | 3.6 | 44 |
| 149 | Multi-Atlas Segmentation of MR Tumor Brain Images Using Low-Rank Based Image Recovery. IEEE Transactions on Medical Imaging, 2018, 37, 2224-2235. | 8.9 | 44 |
| 150 | Incomplete multi-modal representation learning for Alzheimer's disease diagnosis. Medical Image Analysis, 2021, 69, 101953. | 11.6 | 44 |
| 151 | Synthesized 7T MRI from 3T MRI via deep learning in spatial and wavelet domains. Medical Image Analysis, 2020, 62, 101663. | 11.6 | 43 |
| 152 | Brain-Wide Genome-Wide Association Study for Alzheimer's Disease via Joint Projection Learning and Sparse Regression Model. IEEE Transactions on Biomedical Engineering, 2019, 66, 165-175. | 4.2 | 42 |
| 153 | TPS-HAMMER: Improving HAMMER registration algorithm by soft correspondence matching and thin-plate splines based deformation interpolation. NeuroImage, 2010, 49, 2225-2233. | 4.2 | 41 |
| 154 | CENTS: Cortical enhanced neonatal tissue segmentation. Human Brain Mapping, 2011, 32, 382-396. | 3.6 | 40 |
| 155 | Improved image registration by sparse patch-based deformation estimation. NeuroImage, 2015, 105, 257-268. | 4.2 | 40 |
| 156 | Denoising magnetic resonance images using collaborative non-local means. Neurocomputing, 2016, 177, 215-227. | 5.9 | 39 |
| 157 | Designing weighted correlation kernels in convolutional neural networks for functional connectivity based brain disease diagnosis. Medical Image Analysis, 2020, 63, 101709. | 11.6 | 39 |
| 158 | Harmonization of Infant Cortical Thickness Using Surface-to-Surface Cycle-Consistent Adversarial Networks. Lecture Notes in Computer Science, 2019, 11767, 475-483. | 1.3 | 39 |
| 159 | 7T-guided super-resolution of 3T MRI. Medical Physics, 2017, 44, 1661-1677. | 3.0 | 38 |
| 160 | Hierarchical Patch-Based Sparse Representation – A New Approach for Resolution Enhancement of 4D-CT Lung Data. IEEE Transactions on Medical Imaging, 2012, 31, 1993-2005. | 8.9 | 37 |
| 161 | Review and Prospect: Artificial Intelligence in Advanced Medical Imaging. Frontiers in Radiology, 2021, 1, . | 2.0 | 37 |
| 162 | Hierarchical unbiased graph shrinkage (HUGS): A novel groupwise registration for large data set. NeuroImage, 2014, 84, 626-638. | 4.2 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Non-Negative Spherical Deconvolution (NNSD) for estimation of fiber Orientation Distribution Function in single-/multi-shell diffusion MRI. <i>NeuroImage</i> , 2014, 101, 750-764. | 4.2 | 36 |
| 164 | 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. | 9.8 | 36 |
| 165 | Multi-task exclusive relationship learning for alzheimer's disease progression prediction with longitudinal data. <i>Medical Image Analysis</i> , 2019, 53, 111-122. | 11.6 | 36 |
| 166 | SPHERE: SPHERical Harmonic Elastic REGistration of HARDI data. <i>NeuroImage</i> , 2011, 55, 545-556. | 4.2 | 35 |
| 167 | Groupwise registration based on hierarchical image clustering and atlas synthesis. <i>Human Brain Mapping</i> , 2010, 31, 1128-1140. | 3.6 | 34 |
| 168 | Neonatal atlas construction using sparse representation. <i>Human Brain Mapping</i> , 2014, 35, 4663-4677. | 3.6 | 34 |
| 169 | Intermediate templates guided groupwise registration of diffusion tensor images. <i>NeuroImage</i> , 2011, 54, 928-939. | 4.2 | 33 |
| 170 | Consistent Spatial-Temporal Longitudinal Atlas Construction for Developing Infant Brains. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2568-2577. | 8.9 | 33 |
| 171 | Identification of progressive mild cognitive impairment patients using incomplete longitudinal MRI scans. <i>Brain Structure and Function</i> , 2016, 221, 3979-3995. | 2.3 | 33 |
| 172 | A review of deep learning-based three-dimensional medical image registration methods. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4895-4916. | 2.0 | 33 |
| 173 | Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. <i>NeuroImage</i> , 2013, 72, 91-105. | 4.2 | 32 |
| 174 | Sparse Multivariate Autoregressive Modeling for Mild Cognitive Impairment Classification. <i>Neuroinformatics</i> , 2014, 12, 455-469. | 2.8 | 32 |
| 175 | Diverse data augmentation for learning image segmentation with cross-modality annotations. <i>Medical Image Analysis</i> , 2021, 71, 102060. | 11.6 | 32 |
| 176 | Multi-stage Diagnosis of Alzheimer's Disease with Incomplete Multimodal Data via Multi-task Deep Learning. <i>Lecture Notes in Computer Science</i> , 2017, 10553, 160-168. | 1.3 | 32 |
| 177 | Predict brain MR image registration via sparse learning of appearance and transformation. <i>Medical Image Analysis</i> , 2015, 20, 61-75. | 11.6 | 30 |
| 178 | Attribute vector guided groupwise registration. <i>NeuroImage</i> , 2010, 50, 1485-1496. | 4.2 | 29 |
| 179 | A General Fast Registration Framework by Learning Deformation's Appearance Correlation. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 1823-1833. | 9.8 | 29 |
| 180 | F-TIMER: Fast Tensor Image Morphing for Elastic Registration. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1192-1203. | 8.9 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Longitudinally Guided Super-Resolution of Neonatal Brain Magnetic Resonance Images. IEEE Transactions on Cybernetics, 2019, 49, 662-674. | 9.5 | 28 |
| 182 | Spatial Transformation of DWI Data Using Non-Negative Sparse Representation. IEEE Transactions on Medical Imaging, 2012, 31, 2035-2049. | 8.9 | 27 |
| 183 | Application of neuroanatomical features to tractography clustering. Human Brain Mapping, 2013, 34, 2089-2102. | 3.6 | 27 |
| 184 | Automatic brain labeling via multi-atlas guided fully convolutional networks. Medical Image Analysis, 2019, 51, 157-168. | 11.6 | 27 |
| 185 | MCI Identification by Joint Learning on Multiple MRI Data. Lecture Notes in Computer Science, 2015, 9350, 78-85. | 1.3 | 27 |
| 186 | Joint Craniomaxillofacial Bone Segmentation and Landmark Digitization by Context-Guided Fully Convolutional Networks. Lecture Notes in Computer Science, 2017, 10434, 720-728. | 1.3 | 27 |
| 187 | Automatic labeling of MR brain images by hierarchical learning of atlas forests. Medical Physics, 2016, 43, 1175-1186. | 3.0 | 26 |
| 188 | Lane detection using B-snake. , 0, , . | | 25 |
| 189 | A transversal approach for patch-based label fusion via matrix completion. Medical Image Analysis, 2015, 24, 135-148. | 11.6 | 25 |
| 190 | Feature fusion via hierarchical supervised local CCA for diagnosis of autism spectrum disorder. Brain Imaging and Behavior, 2017, 11, 1050-1060. | 2.1 | 25 |
| 191 | A New Multi-Atlas Registration Framework for Multimodal Pathological Images Using Conventional Monomodal Normal Atlases. IEEE Transactions on Image Processing, 2019, 28, 2293-2304. | 9.8 | 25 |
| 192 | Human Brain Connectomics: Networks, Techniques, and Applications [Life Sciences. IEEE Signal Processing Magazine, 2010, 27, 131-134. | 5.6 | 24 |
| 193 | The Relationship between Lesion Severity Characterized by Diffusion Tensor Imaging and Motor Function in Chronic Canine Spinal Cord Injury. Journal of Neurotrauma, 2018, 35, 500-507. | 3.4 | 24 |
| 194 | Multi-Site Harmonization of Diffusion MRI Data via Method of Moments. IEEE Transactions on Medical Imaging, 2019, 38, 1599-1609. | 8.9 | 24 |
| 195 | Mitigating gyral bias in cortical tractography via asymmetric fiber orientation distributions. Medical Image Analysis, 2020, 59, 101543. | 11.6 | 24 |
| 196 | One-Shot Generative Adversarial Learning for MRI Segmentation of Craniomaxillofacial Bony Structures. IEEE Transactions on Medical Imaging, 2020, 39, 787-796. | 8.9 | 24 |
| 197 | Triplet Graph Convolutional Network for Multi-scale Analysis of Functional Connectivity Using Functional MRI. Lecture Notes in Computer Science, 2019, , 70-78. | 1.3 | 24 |
| 198 | A novel framework for longitudinal atlas construction with groupwise registration of subject image sequences. NeuroImage, 2012, 59, 1275-1289. | 4.2 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 199 | Joint Coupled-Feature Representation and Coupled Boosting for AD Diagnosis. , 2014, 2014, 2721-2728. | | 23 |
| 200 | Multilevel Deficiency of White Matter Connectivity Networks in Alzheimer's Disease: A Diffusion MRI Study with DTI and HARDI Models. Neural Plasticity, 2016, 2016, 1-14. | 2.2 | 23 |
| 201 | Joint prediction of longitudinal development of cortical surfaces and white matter fibers from neonatal MRI. NeuroImage, 2017, 152, 411-424. | 4.2 | 23 |
| 202 | Craniomaxillofacial Bony Structures Segmentation from MRI with Deep-Supervision Adversarial Learning. Lecture Notes in Computer Science, 2018, 11073, 720-727. | 1.3 | 23 |
| 203 | Denoising of Diffusion MRI Data via Graph Framelet Matching in x-q Space. IEEE Transactions on Medical Imaging, 2019, 38, 2838-2848. | 8.9 | 23 |
| 204 | Fast and Accurate Craniomaxillofacial Landmark Detection via 3D Faster R-CNN. IEEE Transactions on Medical Imaging, 2021, 40, 3867-3878. | 8.9 | 23 |
| 205 | Robust Computation of Mutual Information Using Spatially Adaptive Meshes. , 2007, 10, 950-958. | | 23 |
| 206 | Reveal Consistent Spatial-Temporal Patterns from Dynamic Functional Connectivity for Autism Spectrum Disorder Identification. Lecture Notes in Computer Science, 2016, 9900, 106-114. | 1.3 | 22 |
| 207 | Concatenated spatially-localized random forests for hippocampus labeling in adult and infant MR brain images. Neurocomputing, 2017, 229, 3-12. | 5.9 | 22 |
| 208 | Collaborative regression-based anatomical landmark detection. Physics in Medicine and Biology, 2015, 60, 9377-9401. | 3.0 | 21 |
| 209 | Robust anatomical landmark detection with application to MR brain image registration. Computerized Medical Imaging and Graphics, 2015, 46, 277-290. | 5.8 | 21 |
| 210 | Noise reduction in diffusion MRI using non-local self-similar information in joint $\langle \mathbf{x}, \mathbf{y} \rangle$ space. Medical Image Analysis, 2019, 53, 79-94. | 11.6 | 21 |
| 211 | Learning MRI artefact removal with unpaired data. Nature Machine Intelligence, 2021, 3, 60-67. | 16.0 | 21 |
| 212 | PopTract: Population-Based Tractography. IEEE Transactions on Medical Imaging, 2011, 30, 1829-1840. | 8.9 | 20 |
| 213 | Abnormal Changes of Brain Cortical Anatomy and the Association with Plasma MicroRNA107 Level in Amnesic Mild Cognitive Impairment. Frontiers in Aging Neuroscience, 2016, 8, 112. | 3.4 | 20 |
| 214 | Multi-Tissue Decomposition of Diffusion MRI Signals via L0 Sparse-Group Estimation. IEEE Transactions on Image Processing, 2016, 25, 1-1. | 9.8 | 20 |
| 215 | Multi-task feature selection via supervised canonical graph matching for diagnosis of autism spectrum disorder. Brain Imaging and Behavior, 2016, 10, 33-40. | 2.1 | 20 |
| 216 | Segmentation of Craniomaxillofacial Bony Structures from MRI with a 3D Deep-Learning Based Cascade Framework. Lecture Notes in Computer Science, 2017, 10541, 266-273. | 1.3 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | SLIR: Synthesis, localization, inpainting, and registration for image-guided thermal ablation of liver tumors. <i>Medical Image Analysis</i> , 2020, 65, 101763. | 11.6 | 20 |
| 218 | Multi-Task Weakly-Supervised Attention Network for Dementia Status Estimation With Structural MRI. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 4056-4068. | 11.3 | 20 |
| 219 | Low-Rank Total Variation for Image Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2013, 16, 155-162. | 1.3 | 20 |
| 220 | Large deformation diffeomorphic registration of diffusion-weighted imaging data. <i>Medical Image Analysis</i> , 2014, 18, 1290-1298. | 11.6 | 19 |
| 221 | Estimating patient-specific and anatomically correct reference model for craniomaxillofacial deformity via sparse representation. <i>Medical Physics</i> , 2015, 42, 5809-5816. | 3.0 | 19 |
| 222 | Learning-Based Multimodal Image Registration for Prostate Cancer Radiation Therapy. <i>Lecture Notes in Computer Science</i> , 2016, 9902, 1-9. | 1.3 | 19 |
| 223 | Low-Rank Representation for Multi-center Autism Spectrum Disorder Identification. <i>Lecture Notes in Computer Science</i> , 2018, 11070, 647-654. | 1.3 | 19 |
| 224 | Dual-domain convolutional neural networks for improving structural information in 3D MRI. <i>Magnetic Resonance Imaging</i> , 2019, 64, 90-100. | 1.8 | 19 |
| 225 | Longitudinal Prediction of Infant Diffusion MRI Data via Graph Convolutional Adversarial Networks. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2717-2725. | 8.9 | 19 |
| 226 | Fusion of ULS Group Constrained High- and Low-Order Sparse Functional Connectivity Networks for MCI Classification. <i>Neuroinformatics</i> , 2020, 18, 1-24. | 2.8 | 19 |
| 227 | Iterative Label Denoising Network: Segmenting Male Pelvic Organs in CT From 3D Bounding Box Annotations. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2710-2720. | 4.2 | 19 |
| 228 | Multi-task Dynamic Transformer Network for Concurrent Bone Segmentation and Large-Scale Landmark Localization with Dental CBCT. <i>Lecture Notes in Computer Science</i> , 2020, 12264, 807-816. | 1.3 | 19 |
| 229 | TSGCNet: Discriminative Geometric Feature Learning with Two-Stream Graph Convolutional Network for 3D Dental Model Segmentation. , 2021, , . | | 19 |
| 230 | Brain atlas fusion from high-thickness diagnostic magnetic resonance images by learning-based super-resolution. <i>Pattern Recognition</i> , 2017, 63, 531-541. | 8.1 | 18 |
| 231 | Super-resolution reconstruction of neonatal brain magnetic resonance images via residual structured sparse representation. <i>Medical Image Analysis</i> , 2019, 55, 76-87. | 11.6 | 18 |
| 232 | Difficulty-aware hierarchical convolutional neural networks for deformable registration of brain MR images. <i>Medical Image Analysis</i> , 2021, 67, 101817. | 11.6 | 18 |
| 233 | Diagnosis of Alzheimer's Disease Using View-Aligned Hypergraph Learning with Incomplete Multi-modality Data. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 308-316. | 1.3 | 17 |
| 234 | Learning-based deformable image registration for infant MR images in the first year of life. <i>Medical Physics</i> , 2017, 44, 158-170. | 3.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Learning-based structurally-guided construction of resting-state functional correlation tensors. <i>Magnetic Resonance Imaging</i> , 2017, 43, 110-121. | 1.8 | 17 |
| 236 | Anatomy-Regularized Representation Learning for Cross-Modality Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 274-285. | 8.9 | 17 |
| 237 | Estimating Reference Bony Shape Models for Orthognathic Surgical Planning Using 3D Point-Cloud Deep Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2958-2966. | 6.3 | 17 |
| 238 | Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , 2022, 257, 119327. | 4.2 | 17 |
| 239 | Learning-based deformable registration for infant <i>scp</i> MRI by integrating random forest with auto-context model. <i>Medical Physics</i> , 2017, 44, 6289-6303. | 3.0 | 16 |
| 240 | Joint 6D k-q Space Compressed Sensing for Accelerated High Angular Resolution Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2015, 24, 782-793. | 1.3 | 16 |
| 241 | Correlation-Weighted Sparse Group Representation for Brain Network Construction in MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 37-45. | 1.3 | 16 |
| 242 | Learning Best Features and Deformation Statistics for Hierarchical Registration of MR Brain Images. <i>Lecture Notes in Computer Science</i> , 2007, 20, 160-171. | 1.3 | 16 |
| 243 | Improving Estimation of Fiber Orientations in Diffusion MRI Using Inter-Subject Information Sharing. <i>Scientific Reports</i> , 2016, 6, 37847. | 3.3 | 15 |
| 244 | Medical Image Retrieval Using Multi-graph Learning for MCI Diagnostic Assistance. <i>Lecture Notes in Computer Science</i> , 2015, 9350, 86-93. | 1.3 | 15 |
| 245 | Reconstruction of super-resolution lung 4D-CT using patch-based sparse representation. , 2012, , . | | 14 |
| 246 | Fiber-driven resolution enhancement of diffusion-weighted images. <i>NeuroImage</i> , 2014, 84, 939-950. | 4.2 | 14 |
| 247 | Detail-preserving construction of neonatal brain atlases in space-frequency domain. <i>Human Brain Mapping</i> , 2016, 37, 2133-2150. | 3.6 | 14 |
| 248 | Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. <i>Human Brain Mapping</i> , 2017, 38, 2865-2874. | 3.6 | 14 |
| 249 | Single- and Multiple-Shell Uniform Sampling Schemes for Diffusion MRI Using Spherical Codes. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 185-199. | 8.9 | 14 |
| 250 | Real-Time Quality Assessment of Pediatric MRI via Semi-Supervised Deep Nonlocal Residual Neural Networks. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 7697-7706. | 9.8 | 14 |
| 251 | CT Male Pelvic Organ Segmentation via Hybrid Loss Network With Incomplete Annotation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2151-2162. | 8.9 | 14 |
| 252 | Classification of type 2 diabetes mellitus with or without cognitive impairment from healthy controls using high-order functional connectivity. <i>Human Brain Mapping</i> , 2021, 42, 4671-4684. | 3.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 253 | Asymmetric multi-task attention network for prostate bed segmentation in computed tomography images. <i>Medical Image Analysis</i> , 2021, 72, 102116. | 11.6 | 14 |
| 254 | SkullEngine: A Multi-stage CNN Framework for Collaborative CBCT Image Segmentation and Landmark Detection. <i>Lecture Notes in Computer Science</i> , 2021, 12966, 606-614. | 1.3 | 14 |
| 255 | DeepBundle: Fiber Bundle Parcellation with Graph Convolution Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019, 11849, 88-95. | 1.3 | 14 |
| 256 | Image mosaicking using SURF features of line segments. <i>PLoS ONE</i> , 2017, 12, e0173627. | 2.5 | 14 |
| 257 | Unpaired Deep Cross-Modality Synthesis with Fast Training. <i>Lecture Notes in Computer Science</i> , 2018, 11045, 155-164. | 1.3 | 13 |
| 258 | Automatic Localization of Landmarks in Craniomaxillofacial CBCT Images Using a Local Attention-Based Graph Convolution Network. <i>Lecture Notes in Computer Science</i> , 2020, 12264, 817-826. | 1.3 | 13 |
| 259 | Designing Single- and Multiple-Shell Sampling Schemes for Diffusion MRI Using Spherical Code. <i>Lecture Notes in Computer Science</i> , 2014, 17, 281-288. | 1.3 | 13 |
| 260 | XQ-NLM: Denoising Diffusion MRI Data via x-q Space Non-local Patch Matching. <i>Lecture Notes in Computer Science</i> , 2016, 9902, 587-595. | 1.3 | 13 |
| 261 | Two-Stream Graph Convolutional Network for Intra-Oral Scanner Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 826-835. | 8.9 | 13 |
| 262 | Image registration using machine and deep learning. , 2020, , 319-342. | | 12 |
| 263 | Probing Tissue Microarchitecture of the Baby Brain via Spherical Mean Spectrum Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1-1. | 8.9 | 12 |
| 264 | NHBS-Net: A Feature Fusion Attention Network for Ultrasound Neonatal Hip Bone Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3446-3458. | 8.9 | 12 |
| 265 | Prediction of Infant MRI Appearance and Anatomical Structure Evolution Using Sparse Patch-Based Metamorphosis Learning Framework. <i>Lecture Notes in Computer Science</i> , 2015, 9467, 197-204. | 1.3 | 12 |
| 266 | Large Deformation Image Classification Using Generalized Locality-Constrained Linear Coding. <i>Lecture Notes in Computer Science</i> , 2013, 16, 292-299. | 1.3 | 12 |
| 267 | GAN-Guided Deformable Attention Network for Identifying Thyroid Nodules in Ultrasound Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1582-1590. | 6.3 | 12 |
| 268 | Directed graph based image registration. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 139-151. | 5.8 | 11 |
| 269 | Uncertainty Estimation in Diffusion MRI Using the Nonlocal Bootstrap. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1627-1640. | 8.9 | 11 |
| 270 | Functional MRI registration with tissue-specific patch-based functional correlation tensors. <i>Human Brain Mapping</i> , 2018, 39, 2303-2316. | 3.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 271 | Dual-Domain Cascaded Regression for Synthesizing 7T from 3T MRI. Lecture Notes in Computer Science, 2018, 11070, 410-417. | 1.3 | 11 |
| 272 | Surface-constrained volumetric registration for the early developing brain. Medical Image Analysis, 2019, 58, 101540. | 11.6 | 11 |
| 273 | Deep Learning Deformation Initialization for Rapid Groupwise Registration of Inhomogeneous Image Populations. Frontiers in Neuroinformatics, 2019, 13, 34. | 2.5 | 11 |
| 274 | Deep Bayesian Hashing With Center Prior for Multi-Modal Neuroimage Retrieval. IEEE Transactions on Medical Imaging, 2021, 40, 503-513. | 8.9 | 11 |
| 275 | Multiscale neural modeling of resting-state fMRI reveals executive-limbic malfunction as a core mechanism in major depressive disorder. NeuroImage: Clinical, 2021, 31, 102758. | 2.7 | 11 |
| 276 | Dilated perivascular space is related to reduced free-water in surrounding white matter among healthy adults and elderlies but not in patients with severe cerebral small vessel disease. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2561-2570. | 4.3 | 11 |
| 277 | Hierarchical Reconstruction of 7T-like Images from 3T MRI Using Multi-level CCA and Group Sparsity. Lecture Notes in Computer Science, 2015, 9350, 659-666. | 1.3 | 11 |
| 278 | Wavelet-based Semi-supervised Adversarial Learning for Synthesizing Realistic 7T from 3T MRI. Lecture Notes in Computer Science, 2019, 11767, 786-794. | 1.3 | 11 |
| 279 | Recurrent Tissue-Aware Network for Deformable Registration of Infant Brain MR Images. IEEE Transactions on Medical Imaging, 2022, 41, 1219-1229. | 8.9 | 11 |
| 280 | D2FE-GAN: Decoupled dual feature extraction based GAN for MRI image synthesis. Knowledge-Based Systems, 2022, 252, 109362. | 7.1 | 11 |
| 281 | Diffusion tensor image registration using hybrid connectivity and tensor features. Human Brain Mapping, 2014, 35, 3529-3546. | 3.6 | 10 |
| 282 | Hierarchical and symmetric infant image registration by robust longitudinalâ€œexampleâ€œguided correspondence detection. Medical Physics, 2015, 42, 4174-4189. | 3.0 | 10 |
| 283 | Stability-Weighted Matrix Completion of Incomplete Multi-modal Data for Disease Diagnosis. Lecture Notes in Computer Science, 2016, 9901, 88-96. | 1.3 | 10 |
| 284 | Functional Connectivity Network Fusion with Dynamic Thresholding for MCI Diagnosis. Lecture Notes in Computer Science, 2016, 10019, 246-253. | 1.3 | 10 |
| 285 | Robust Fusion of Diffusion MRI Data for Template Construction. Scientific Reports, 2017, 7, 12950. | 3.3 | 10 |
| 286 | XQ-SR: Joint x-q space super-resolution with application to infant diffusion MRI. Medical Image Analysis, 2019, 57, 44-55. | 11.6 | 10 |
| 287 | Multifold Acceleration of Diffusion MRI via Deep Learning Reconstruction from Slice-Undersampled Data. Lecture Notes in Computer Science, 2019, 11492, 530-541. | 1.3 | 10 |
| 288 | Estimating Reference Shape Model for Personalized Surgical Reconstruction of Craniomaxillofacial Defects. IEEE Transactions on Biomedical Engineering, 2021, 68, 362-373. | 4.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Tract Dictionary Learning for Fast and Robust Recognition of Fiber Bundles. Lecture Notes in Computer Science, 2020, 12267, 251-259. | 1.3 | 10 |
| 290 | Joint Diagnosis and Conversion Time Prediction of Progressive Mild Cognitive Impairment (pMCI) Using Low-Rank Subspace Clustering and Matrix Completion. Lecture Notes in Computer Science, 2015, 9351, 527-534. | 1.3 | 10 |
| 291 | Neighborhood Matching for Curved Domains with Application to Denoising in Diffusion MRI. Lecture Notes in Computer Science, 2017, 10433, 629-637. | 1.3 | 10 |
| 292 | Graph-Constrained Sparse Construction of Longitudinal Diffusion-Weighted Infant Atlases. Lecture Notes in Computer Science, 2017, 10433, 49-56. | 1.3 | 10 |
| 293 | Dual Adversarial Attention Mechanism for Unsupervised Domain Adaptive Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 3445-3453. | 8.9 | 10 |
| 294 | Learning-based deformation estimation for fast non-rigid registration. , 2008, JUNE, 1-6. | | 9 |
| 295 | Scalable High Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. , 2017, , 245-269. | | 9 |
| 296 | Malignant Brain Tumor Classification Using the Random Forest Method. Lecture Notes in Computer Science, 2018, , 14-21. | 1.3 | 9 |
| 297 | Deep morphological simplification network (MS-Net) for guided registration of brain magnetic resonance images. Pattern Recognition, 2020, 100, 107171. | 8.1 | 9 |
| 298 | Multi-Atlas Brain Parcellation Using Squeeze-and-Excitation Fully Convolutional Networks. IEEE Transactions on Image Processing, 2020, 29, 6864-6872. | 9.8 | 9 |
| 299 | Hierarchical Nonlocal Residual Networks for Image Quality Assessment of Pediatric Diffusion MRI With Limited and Noisy Annotations. IEEE Transactions on Medical Imaging, 2020, 39, 3691-3702. | 8.9 | 9 |
| 300 | Asymmetrical Multi-task Attention U-Net for the Segmentation of Prostate Bed in CT Image. Lecture Notes in Computer Science, 2020, 12264, 470-479. | 1.3 | 9 |
| 301 | Estimating Tissue Microstructure with Undersampled Diffusion Data via Graph Convolutional Neural Networks. Lecture Notes in Computer Science, 2020, 12267, 280-290. | 1.3 | 9 |
| 302 | Identification of Infants at Risk for Autism Using Multi-parameter Hierarchical White Matter Connectomes. Lecture Notes in Computer Science, 2015, 9352, 170-177. | 1.3 | 9 |
| 303 | Hierarchical Attribute-Guided Symmetric Diffeomorphic Registration for MR Brain Images. Lecture Notes in Computer Science, 2012, 15, 90-97. | 1.3 | 9 |
| 304 | Fast Tensor Image Morphing for Elastic Registration. Lecture Notes in Computer Science, 2009, 12, 721-729. | 1.3 | 9 |
| 305 | Spatio-angular consistent construction of neonatal diffusion MRI atlases. Human Brain Mapping, 2017, 38, 3175-3189. | 3.6 | 8 |
| 306 | High-Order Laplacian Regularized Low-Rank Representation for Multimodal Dementia Diagnosis. Frontiers in Neuroscience, 2021, 15, 634124. | 2.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 307 | Pair-Wise and Group-Wise Deformation Consistency in Deep Registration Network. Lecture Notes in Computer Science, 2020, , 171-180. | 1.3 | 8 |
| 308 | Segmentation of Infant Hippocampus Using Common Feature Representations Learned for Multimodal Longitudinal Data. Lecture Notes in Computer Science, 2015, 9351, 63-71. | 1.3 | 8 |
| 309 | Soft-Split Sparse Regression Based Random Forest for Predicting Future Clinical Scores of Alzheimer's Disease. Lecture Notes in Computer Science, 2015, , 246-254. | 1.3 | 8 |
| 310 | Brain Image Labeling Using Multi-atlas Guided 3D Fully Convolutional Networks. Lecture Notes in Computer Science, 2017, 10530, 12-19. | 1.3 | 8 |
| 311 | Multiple Cortical Surface Correspondence Using Pairwise Shape Similarity. Lecture Notes in Computer Science, 2010, 13, 349-356. | 1.3 | 8 |
| 312 | Longitudinal Tractography with Application to Neuronal Fiber Trajectory Reconstruction in Neonates. Lecture Notes in Computer Science, 2011, 14, 66-73. | 1.3 | 8 |
| 313 | Simulation of Postoperative Facial Appearances via Geometric Deep Learning for Efficient Orthognathic Surgical Planning. IEEE Transactions on Medical Imaging, 2023, 42, 336-345. | 8.9 | 8 |
| 314 | Resolution enhancement of lung 4D-CT via group-sparsity. Medical Physics, 2013, 40, 121717. | 3.0 | 7 |
| 315 | Joint representation of consistent structural and functional profiles for identification of common cortical landmarks. Brain Imaging and Behavior, 2018, 12, 728-742. | 2.1 | 7 |
| 316 | Asymmetry Spectrum Imaging for Baby Diffusion Tractography. Lecture Notes in Computer Science, 2019, 11492, 319-331. | 1.3 | 7 |
| 317 | Dynamic neural circuit disruptions associated with antisocial behaviors. Human Brain Mapping, 2021, 42, 329-344. | 3.6 | 7 |
| 318 | Gaussianization of Diffusion MRI Data Using Spatially Adaptive Filtering. Medical Image Analysis, 2021, 68, 101828. | 11.6 | 7 |
| 319 | Reconstructing High-Quality Diffusion MRI Data from Orthogonal Slice-Undersampled Data Using Graph Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, 11766, 529-537. | 1.3 | 7 |
| 320 | Joint Neuroimage Synthesis and Representation Learning for Conversion Prediction of Subjective Cognitive Decline. Lecture Notes in Computer Science, 2020, , 583-592. | 1.3 | 7 |
| 321 | Large Deformation Diffeomorphic Registration of Diffusion-Weighted Images with Explicit Orientation Optimization. Lecture Notes in Computer Science, 2013, 16, 27-34. | 1.3 | 7 |
| 322 | Collaborative non-local means denoising of magnetic resonance images. , 2015, 2015, 564-567. | | 6 |
| 323 | eHUGS: Enhanced Hierarchical Unbiased Graph Shrinkage for Efficient Groupwise Registration. PLoS ONE, 2016, 11, e0146870. | 2.5 | 6 |
| 324 | Learning-based 3T brain MRI segmentation with guidance from 7T MRI labeling. Medical Physics, 2016, 43, 6588-6597. | 3.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 325 | Angular Upsampling in Infant Diffusion MRI Using Neighborhood Matching in x-q Space. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 57. | 2.5 | 6 |
| 326 | High-Resolution Breast MRI Reconstruction Using a Deep Convolutional Generative Adversarial Network. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1852-1858. | 3.4 | 6 |
| 327 | DLLNet: An Attention-Based Deep Learning Method for Dental Landmark Localization on High-Resolution 3D Digital Dental Models. <i>Lecture Notes in Computer Science</i> , 2021, 12904, 478-487. | 1.3 | 6 |
| 328 | Unsupervised Learning of Reference Bony Shapes for Orthognathic Surgical Planning with a Surface Deformation Network. <i>Medical Physics</i> , 2021, 48, 7735. | 3.0 | 6 |
| 329 | ABCnet: Adversarial bias correction network for infant brain MR images. <i>Medical Image Analysis</i> , 2021, 72, 102133. | 11.6 | 6 |
| 330 | Anatomical-Landmark-Based Deep Learning for Alzheimer's Disease Diagnosis with Structural Magnetic Resonance Imaging. <i>Intelligent Systems Reference Library</i> , 2020, , 127-147. | 1.2 | 6 |
| 331 | Tight Graph Framelets for Sparse Diffusion MRI q-Space Representation. <i>Lecture Notes in Computer Science</i> , 2016, 9902, 561-569. | 1.3 | 6 |
| 332 | Large Deformation Diffeomorphic Registration of Diffusion-Weighted Images. <i>Lecture Notes in Computer Science</i> , 2012, 15, 171-178. | 1.3 | 6 |
| 333 | A Generalized Learning Based Framework for Fast Brain Image Registration. <i>Lecture Notes in Computer Science</i> , 2010, 13, 306-314. | 1.3 | 6 |
| 334 | Probing Brain Micro-architecture by Orientation Distribution Invariant Identification of Diffusion Compartments. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 547-555. | 1.3 | 6 |
| 335 | Craniomaxillofacial Deformity Correction via Sparse Representation in Coherent Space. <i>Lecture Notes in Computer Science</i> , 2015, , 69-76. | 1.3 | 5 |
| 336 | A Multi-Tissue Global Estimation Framework for Asymmetric Fiber Orientation Distributions. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 45-52. | 1.3 | 5 |
| 337 | Deep feature descriptor based hierarchical dense matching for X-ray angiographic images. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 175, 233-242. | 4.7 | 5 |
| 338 | Novel Effective Connectivity Network Inference for MCI Identification. <i>Lecture Notes in Computer Science</i> , 2017, 2017, 316-324. | 1.3 | 5 |
| 339 | Resolution Enhancement of Diffusion-Weighted Images by Local Fiber Profiling. <i>Lecture Notes in Computer Science</i> , 2012, 15, 18-25. | 1.3 | 5 |
| 340 | Longitudinal Guided Super-Resolution Reconstruction of Neonatal Brain MR Images. <i>Lecture Notes in Computer Science</i> , 2015, 8682, 67-76. | 1.3 | 5 |
| 341 | Estimating Reference Bony Shape Model for Personalized Surgical Reconstruction of Posttraumatic Facial Defects. <i>Lecture Notes in Computer Science</i> , 2019, 11768, 327-335. | 1.3 | 5 |
| 342 | Multi-stage Image Quality Assessment of Diffusion MRI via Semi-supervised Nonlocal Residual Networks. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 521-528. | 1.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | Learning of Atlas Forest Hierarchy for Automatic Labeling of MR Brain Images. Lecture Notes in Computer Science, 2014, , 323-330. | 1.3 | 4 |
| 344 | Joint Robust Imputation and Classification for Early Dementia Detection Using Incomplete Multi-modality Data. Lecture Notes in Computer Science, 2018, 11121, 51-59. | 1.3 | 4 |
| 345 | Penalized Geodesic Tractography for Mitigating Gyral Bias. Lecture Notes in Computer Science, 2018, 11072, 12-19. | 1.3 | 4 |
| 346 | Graph-Based Deep Learning for Prediction of Longitudinal Infant Diffusion MRI Data. Mathematics and Visualization, 2019, 2019, 133-141. | 0.6 | 4 |
| 347 | Multi-channel framelet denoising of diffusion-weighted images. PLoS ONE, 2019, 14, e0211621. | 2.5 | 4 |
| 348 | A New Image Similarity Metric for Improving Deformation Consistency in Graph-Based Groupwise Image Registration. IEEE Transactions on Biomedical Engineering, 2019, 66, 2192-2199. | 4.2 | 4 |
| 349 | Advanced deep learning methods for biomedical information analysis: An editorial. Neural Networks, 2021, 133, 101-102. | 5.9 | 4 |
| 350 | Deep Simulation of Facial Appearance Changes Following Craniomaxillofacial Bony Movements in Orthognathic Surgical Planning. Lecture Notes in Computer Science, 2021, 12904, 459-468. | 1.3 | 4 |
| 351 | Surface-Volume Consistent Construction of Longitudinal Atlases for the Early Developing Brain. Lecture Notes in Computer Science, 2019, 11765, 815-822. | 1.3 | 4 |
| 352 | The Non-Local Bootstrap " Estimation of Uncertainty in Diffusion MRI. Lecture Notes in Computer Science, 2013, 23, 390-401. | 1.3 | 4 |
| 353 | A Generative Model for Resolution Enhancement of Diffusion MRI Data. Lecture Notes in Computer Science, 2013, 16, 527-534. | 1.3 | 4 |
| 354 | Regularized Spherical Polar Fourier Diffusion MRI with Optimal Dictionary Learning. Lecture Notes in Computer Science, 2013, 16, 639-646. | 1.3 | 4 |
| 355 | Tensorial Spherical Polar Fourier Diffusion MRI with Optimal Dictionary Learning. Lecture Notes in Computer Science, 2015, 9349, 174-182. | 1.3 | 4 |
| 356 | A Hybrid Multishape Learning Framework for Longitudinal Prediction of Cortical Surfaces and Fiber Tracts Using Neonatal Data. Lecture Notes in Computer Science, 2016, 9900, 210-218. | 1.3 | 4 |
| 357 | Alterations of dynamic redundancy of functional brain subnetworks in Alzheimer's disease and major depression disorders. NeuroImage: Clinical, 2022, 33, 102917. | 2.7 | 4 |
| 358 | Eigenmoments. Pattern Recognition, 2007, 40, 1234-1244. | 8.1 | 3 |
| 359 | Automated DNA fiber tracking and measurement. , 2011, , . | | 3 |
| 360 | Multi-contrast diffusion tensor image registration with structural MRI. , 2012, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 361 | Embarrassingly Parallel Acceleration of Global Tractography via Dynamic Domain Partitioning. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 25. | 2.5 | 3 |
| 362 | Learning-Based 3T Brain MRI Segmentation with Guidance from 7T MRI Labeling. <i>Lecture Notes in Computer Science</i> , 2016, 10019, 213-220. | 1.3 | 3 |
| 363 | Multimodal Hyper-connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 433-441. | 1.3 | 3 |
| 364 | Diffusion Compartmentalization Using Response Function Groups with Cardinality Penalization. <i>Lecture Notes in Computer Science</i> , 2015, 9349, 183-190. | 1.3 | 3 |
| 365 | Novel Single and Multiple Shell Uniform Sampling Schemes for Diffusion MRI Using Spherical Codes. <i>Lecture Notes in Computer Science</i> , 2015, 9349, 28-36. | 1.3 | 3 |
| 366 | Super-Resolution Reconstruction of Diffusion-Weighted Images Using 4D Low-Rank and Total Variation. <i>Mathematics and Visualization</i> , 2016, 2015, 15-25. | 0.6 | 3 |
| 367 | Construction of Neonatal Diffusion Atlases via Spatio-Angular Consistency. <i>Lecture Notes in Computer Science</i> , 2016, 9993, 9-16. | 1.3 | 3 |
| 368 | APPLICATION OF POLAR HARMONIC TRANSFORMS TO FINGERPRINT CLASSIFICATION. <i>Series in Computer Vision</i> , 2011, , 297-311. | 0.1 | 3 |
| 369 | Joint Learning of Appearance and Transformation for Predicting Brain MR Image Registration. <i>Lecture Notes in Computer Science</i> , 2013, 23, 499-510. | 1.3 | 3 |
| 370 | Improving Functional MRI Registration Using Whole-Brain Functional Correlation Tensors. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 416-423. | 1.3 | 3 |
| 371 | Structural Connectivity Guided Sparse Effective Connectivity for MCI Identification. <i>Lecture Notes in Computer Science</i> , 2017, 10541, 299-306. | 1.3 | 3 |
| 372 | Deep Disentangled Hashing with Momentum Triplets for Neuroimage Search. <i>Lecture Notes in Computer Science</i> , 2020, 12261, 191-201. | 1.3 | 3 |
| 373 | Characterizing Intra-soma Diffusion with Spherical Mean Spectrum Imaging. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 354-363. | 1.3 | 3 |
| 374 | Altered Connectedness of the Brain Chronnectome During the Progression to Alzheimer's Disease. <i>Neuroinformatics</i> , 2022, 20, 391-403. | 2.8 | 3 |
| 375 | Resolution enhancement of lung 4D CT data using multiscale interphase iterative nonlocal means. <i>Medical Physics</i> , 2013, 40, 051916. | 3.0 | 2 |
| 376 | Consistent 4D brain extraction of serial brain MR images. , 2013, 8669, . | | 2 |
| 377 | Learning Appearance and Shape Evolution for Infant Image Registration in the First Year of Life. <i>Lecture Notes in Computer Science</i> , 2016, , 36-44. | 1.3 | 2 |
| 378 | Longitudinal Harmonization for Improving Tractography in Baby Diffusion MRI. <i>Mathematics and Visualization</i> , 2019, 2019, 183-191. | 0.6 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 379 | Fast Groupwise Registration Using Multi-Level and Multi-Resolution Graph Shrinkage. Scientific Reports, 2019, 9, 12703. | 3.3 | 2 |
| 380 | Tissue Segmentation Using Sparse Non-negative Matrix Factorization of Spherical Mean Diffusion MRI Data. Mathematics and Visualization, 2019, 2019, 69-76. | 0.6 | 2 |
| 381 | Meta-Network Analysis of Structural Correlation Networks Provides Insights Into Brain Network Development. Frontiers in Human Neuroscience, 2019, 13, 93. | 2.0 | 2 |
| 382 | A Self-supervised Deep Framework for Reference Bony Shape Estimation in Orthognathic Surgical Planning. Lecture Notes in Computer Science, 2021, 12904, 469-477. | 1.3 | 2 |
| 383 | A consistent deep registration network with group data modeling. Computerized Medical Imaging and Graphics, 2021, 90, 101904. | 5.8 | 2 |
| 384 | Space-Frequency Detail-Preserving Construction of Neonatal Brain Atlases. Lecture Notes in Computer Science, 2015, 9350, 255-262. | 1.3 | 2 |
| 385 | Block-Based Statistics for Robust Non-parametric Morphometry. Lecture Notes in Computer Science, 2015, 9467, 62-70. | 1.3 | 2 |
| 386 | Angular Resolution Enhancement of Diffusion MRI Data Using Inter-Subject Information Transfer. Mathematics and Visualization, 2016, 2016, 145-157. | 0.6 | 2 |
| 387 | Robust Construction of Diffusion MRI Atlases with Correction for Inter-Subject Fiber Dispersion. Mathematics and Visualization, 2017, 2016, 113-121. | 0.6 | 2 |
| 388 | Iterative Subspace Screening for Rapid Sparse Estimation of Brain Tissue Microstructural Properties. Lecture Notes in Computer Science, 2015, 9349, 223-230. | 1.3 | 2 |
| 389 | q-Space Upsampling Using x-q Space Regularization. Lecture Notes in Computer Science, 2017, 10433, 620-628. | 1.3 | 2 |
| 390 | Identification of Abnormal Circuit Dynamics in Major Depressive Disorder via Multiscale Neural Modeling of Resting-State fMRI. Lecture Notes in Computer Science, 2019, 11766, 682-690. | 1.3 | 2 |
| 391 | Characterizing Non-Gaussian Diffusion in Heterogeneously Oriented Tissue Microenvironments. Lecture Notes in Computer Science, 2019, 11766, 556-563. | 1.3 | 2 |
| 392 | Magnetic Resonance Fingerprinting of the Pediatric Brain. Magnetic Resonance Imaging Clinics of North America, 2021, 29, 605-616. | 1.1 | 2 |
| 393 | Accelerating Global Tractography Using Parallel Markov Chain Monte Carlo. Mathematics and Visualization, 2016, 2016, 121-130. | 0.6 | 1 |
| 394 | Cross-Manifold Guidance in Deformable Registration of Brain MR Images. Lecture Notes in Computer Science, 2016, , 415-424. | 1.3 | 1 |
| 395 | A dynamic tree-based registration could handle possible large deformations among MR brain images. Computerized Medical Imaging and Graphics, 2016, 52, 1-7. | 5.8 | 1 |
| 396 | SR-HARDI: Spatially Regularizing High Angular Resolution Diffusion Imaging. Journal of Computational and Graphical Statistics, 2016, 25, 1195-1211. | 1.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 397 | Spatiotemporal Analysis of Developing Brain Networks. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 48. | 2.5 | 1 |
| 398 | Skull Segmentation from CBCT Images via Voxel-Based Rendering. <i>Lecture Notes in Computer Science</i> , 2021, 12966, 615-623. | 1.3 | 1 |
| 399 | Learning to Synthesize 7 T MRI from 3 T MRI with Few Data by Deformable Augmentation. <i>Lecture Notes in Computer Science</i> , 2021, , 70-79. | 1.3 | 1 |
| 400 | Automated Parcellation of the Cortex Using Structural Connectome Harmonics. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 475-483. | 1.3 | 1 |
| 401 | Denoising Diffusion-Weighted Images Using Grouped Iterative Hard Thresholding of Multi-Channel Framelets. <i>Mathematics and Visualization</i> , 2017, 2016, 49-59. | 0.6 | 1 |
| 402 | Interactive Registration and Segmentation for Multi-Atlas-Based Labeling of Brain MR Image. <i>Communications in Computer and Information Science</i> , 2015, , 240-248. | 0.5 | 1 |
| 403 | Synthetic digital reconstructed radiographs for MR-only robotic stereotactic radiation therapy: A proof of concept. <i>Computers in Biology and Medicine</i> , 2021, 138, 104917. | 7.0 | 1 |
| 404 | Dual-Layer Sell_1 -Graph Embedding for Semi-supervised Image Labeling. <i>Lecture Notes in Computer Science</i> , 2015, , 46-53. | 1.3 | 1 |
| 405 | Fusion of High-Order and Low-Order Effective Connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , 2017, 2017, 307-315. | 1.3 | 1 |
| 406 | Deep Learning Models with Applications to Brain Image Analysis. , 2020, , 433-462. | | 1 |
| 407 | Rapid Diffusion Magnetic Resonance Imaging Using Slice-Interleaved Encoding. <i>Medical Image Analysis</i> , 2022, 81, 102548. | 11.6 | 1 |
| 408 | Regularization of diffusion tensor field using coupled robust anisotropic diffusion filters. , 2009, , . | | 0 |
| 409 | TIMER: Tensor Image Morphing for Elastic Registration. , 2009, , . | | 0 |
| 410 | Regularization of diffusion tensor field using coupled robust anisotropic diffusion filters. , 2009, , . | | 0 |
| 411 | TIMER: Tensor Image Morphing for Elastic Registration. , 2009, , . | | 0 |
| 412 | Efficient Groupwise Registration of MR Brain Images via Hierarchical Graph Set Shrinkage. <i>Lecture Notes in Computer Science</i> , 2018, 11070, 819-826. | 1.3 | 0 |
| 413 | Deep learning and generative adversarial networks in oral and maxillofacial surgery. , 2021, , 55-82. | | 0 |
| 414 | Machine (Deep) Learning for Orthodontic CAD/CAM Technologies. , 2021, , 117-129. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 415 | Machine Learning for CBCT Segmentation of Craniomaxillofacial Bony Structures. , 2021, , 3-13. | | 0 |
| 416 | Reconstruction of Fiber Trajectories via Population-Based Estimation of Local Orientations. Lecture Notes in Computer Science, 2011, 14, 133-140. | 1.3 | 0 |
| 417 | Spatial Warping of DWI Data Using Sparse Representation. Lecture Notes in Computer Science, 2012, 15, 331-338. | 1.3 | 0 |
| 418 | Brain-Cloud: A Generalized and Flexible Registration Framework for Brain MR Images. Lecture Notes in Computer Science, 2013, , 153-161. | 1.3 | 0 |
| 419 | Automatic Hippocampus Labeling Using the Hierarchy of Sub-region Random Forests. Lecture Notes in Computer Science, 2015, , 19-27. | 1.3 | 0 |
| 420 | Learning-Based Estimation of Functional Correlation Tensors in White Matter for Early Diagnosis of Mild Cognitive Impairment. Lecture Notes in Computer Science, 2017, 10530, 65-73. | 1.3 | 0 |
| 421 | Morphological Simplification of Brain MR Images by Deep Learning for Facilitating Deformable Registration. Lecture Notes in Computer Science, 2019, , 203-211. | 1.3 | 0 |
| 422 | Globally Optimized Super-Resolution of Diffusion MRI Data via Fiber Continuity. Lecture Notes in Computer Science, 2020, 12267, 260-269. | 1.3 | 0 |
| 423 | Fast Correction of Eddy-Current and Susceptibility-Induced Distortions Using Rotation-Invariant Contrasts. Lecture Notes in Computer Science, 2020, 12262, 34-43. | 1.3 | 0 |
| 424 | Special issue on machine learning and deep learning in magnetic resonance. NMR in Biomedicine, 2022, 35, e4713. | 2.8 | 0 |
| 425 | Surface-Guided Image Fusion for Preserving Cortical Details in Human Brain Templates.. , 2021, 12907, 390-399. | | 0 |