Chunfeng Lian

List of Publications by Year in Descending Order

79 papers	**959** citations	**15** h-index	**28** g-index
83 ext. papers	**1,457** ext. citations	**6.2** avg, IF	**5.11** L-index

#	Paper	IF	Citations
79	Volumetric Analysis of Amygdala and Hippocampal Subfields for Infants with Autism.. *Journal of Autism and Developmental Disorders*, **2022**, 1	4.6	1
78	A fully automatic AI system for tooth and alveolar bone segmentation from cone-beam CT images.. *Nature Communications*, **2022**, 13, 2096	17.4	5
77	Simulation of Postoperative Facial Appearances via Geometric Deep Learning for Efficient Orthognathic Surgical Planning. *IEEE Transactions on Medical Imaging*, **2022**, 1-1	11.7	0
76	TSGCNet: Discriminative Geometric Feature Learning with Two-Stream Graph Convolutional Network for 3D Dental Model Segmentation **2021**,		4
75	Factors Associated With the Dilation of Perivascular Space in Healthy Elderly Subjects. *Frontiers in Aging Neuroscience*, **2021**, 13, 624732	5.3	7
74	Deep white matter hyperintensity is associated with the dilation of perivascular space. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 2370-2380	7.3	8
73	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	7.3	3
72	Quantity and Morphology of Perivascular Spaces: Associations With Vascular Risk Factors and Cerebral Small Vessel Disease. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 1326-1336	5.6	2
71	MetricUNet: Synergistic image- and voxel-level learning for precise prostate segmentation via online sampling. *Medical Image Analysis*, **2021**, 71, 102039	15.4	6
70	Diverse data augmentation for learning image segmentation with cross-modality annotations. *Medical Image Analysis*, **2021**, 71, 102060	15.4	7
69	Estimating Reference Shape Model for Personalized Surgical Reconstruction of Craniomaxillofacial Defects. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 362-373	5	3
68	Anatomy-Regularized Representation Learning for Cross-Modality Medical Image Segmentation. *IEEE Transactions on Medical Imaging*, **2021**, 40, 274-285	11.7	6
67	Deep Bayesian Hashing With Center Prior for Multi-Modal Neuroimage Retrieval. *IEEE Transactions on Medical Imaging*, **2021**, 40, 503-513	11.7	2
66	Sparse Dictionary Learning for 3D Craniomaxillofacial Skeleton Estimation Based on 2D Face Photographs **2021**, 41-53		
65	Deep Simulation of Facial Appearance Changes Following Craniomaxillofacial Bony Movements in Orthognathic Surgical Planning.. *Lecture Notes in Computer Science*, **2021**, 12904, 459-468	0.9	1
64	Fast and Accurate Craniomaxillofacial Landmark Detection via 3D Faster R-CNN. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3867-3878	11.7	5
63	Skull Segmentation from CBCT Images via Voxel-Based Rendering.. *Lecture Notes in Computer Science*, **2021**, 12966, 615-623	0.9	0

62	A Self-Supervised Deep Framework for Reference Bony Shape Estimation in Orthognathic Surgical Planning.. *Lecture Notes in Computer Science*, **2021**, 12904, 469-477	0.9	1
61	Machine (Deep) Learning for Orthodontic CAD/CAM Technologies **2021**, 117-129		
60	Machine Learning for CBCT Segmentation of Craniomaxillofacial Bony Structures **2021**, 3-13		
59	Machine Learning for Craniomaxillofacial Landmark Digitization of 3D Imaging **2021**, 15-26		
58	DLLNet: An Attention-Based Deep Learning Method for Dental Landmark Localization on High-Resolution 3D Digital Dental Models.. *Lecture Notes in Computer Science*, **2021**, 12904, 478-487	0.9	2
57	White Matter Free Water is a Composite Marker of Cerebral Small Vessel Degeneration. *Translational Stroke Research*, **2021**, 1	7.8	3
56	Unsupervised learning of reference bony shapes for orthognathic surgical planning with a surface deformation network. *Medical Physics*, **2021**, 48, 7735	4.4	1
55	HF-UNet: Learning Hierarchically Inter-Task Relevance in Multi-Task U-Net for Accurate Prostate Segmentation in CT Images. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2118-2128	11.7	8
54	Estimating Reference Bony Shape Models for Orthognathic Surgical Planning Using 3D Point-Cloud Deep Learning. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 2958-2966	7.2	5
53	Asymmetric multi-task attention network for prostate bed segmentation in computed tomography images. *Medical Image Analysis*, **2021**, 72, 102116	15.4	3
52	SkullEngine: A Multi-Stage CNN Framework for Collaborative CBCT Image Segmentation and Landmark Detection.. *Lecture Notes in Computer Science*, **2021**, 12966, 606-614	0.9	4
51	Multi-Task Weakly-Supervised Attention Network for Dementia Status Estimation With Structural MRI. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	5
50	Weakly Supervised Deep Learning for Brain Disease Prognosis Using MRI and Incomplete Clinical Scores. *IEEE Transactions on Cybernetics*, **2020**, 50, 3381-3392	10.2	27
49	Spatially-Constrained Fisher Representation for Brain Disease Identification With Incomplete Multi-Modal Neuroimages. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2965-2975	11.7	18
48	High-Resolution Breast MRI Reconstruction Using a Deep Convolutional Generative Adversarial Network. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 1852-1858	5.6	2
47	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	11.7	28
46	Iterative Label Denoising Network: Segmenting Male Pelvic Organs in CT From 3D Bounding Box Annotations. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2710-2720	5	14
45	Designing weighted correlation kernels in convolutional neural networks for functional connectivity based brain disease diagnosis. *Medical Image Analysis*, **2020**, 63, 101709	15.4	12

#	Title	Metric	Count
44	Anatomical-Landmark-Based Deep Learning for Alzheimer's Disease Diagnosis with Structural Magnetic Resonance Imaging. *Intelligent Systems Reference Library*, **2020**, 127-147	0.8	3
43	Asymmetrical Multi-task Attention U-Net for the Segmentation of Prostate Bed in CT Image. *Lecture Notes in Computer Science*, **2020**, 12264, 470-479	0.9	3
42	Multi-task Dynamic Transformer Network for Concurrent Bone Segmentation and Large-Scale Landmark Localization with Dental CBCT.. *Lecture Notes in Computer Science*, **2020**, 12264, 807-816	0.9	7
41	Automatic Localization of Landmarks in Craniomaxillofacial CBCT Images Using a Local Attention-Based Graph Convolution Network.. *Lecture Notes in Computer Science*, **2020**, 12264, 817-826	0.9	7
40	Morphology of perivascular spaces and enclosed blood vessels in young to middle-aged healthy adults at 7T: Dependences on age, brain region, and breathing gas. *NeuroImage*, **2020**, 218, 116978	7.9	15
39	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	5	30
38	Attention-Guided Hybrid Network for Dementia Diagnosis With Structural MR Images. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	15
37	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	13.3	136
36	One-Shot Generative Adversarial Learning for MRI Segmentation of Craniomaxillofacial Bony Structures. *IEEE Transactions on Medical Imaging*, **2020**, 39, 787-796	11.7	11
35	Automated detection and classification of thyroid nodules in ultrasound images using clinical-knowledge-guided convolutional neural networks. *Medical Image Analysis*, **2019**, 58, 101555	15.4	47
34	Topological correction of infant white matter surfaces using anatomically constrained convolutional neural network. *NeuroImage*, **2019**, 198, 114-124	7.9	11
33	Developmental topography of cortical thickness during infancy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15855-15860	11.5	37
32	End-to-End Dementia Status Prediction from Brain MRI Using Multi-task Weakly-Supervised Attention Network **2019**, 11767, 158-167		2
31	Revealing Developmental Regionalization of Infant Cerebral Cortex Based on Multiple Cortical Properties. *Lecture Notes in Computer Science*, **2019**, 11765, 841-849	0.9	
30	MeshSNet: Deep Multi-scale Mesh Feature Learning for End-to-End Tooth Labeling on 3D Dental Surfaces. *Lecture Notes in Computer Science*, **2019**, 837-845	0.9	5
29	End-to-End Dementia Status Prediction from Brain MRI Using Multi-task Weakly-Supervised Attention Network. *Lecture Notes in Computer Science*, **2019**, 158-167	0.9	9
28	Automatic Detection of Craniomaxillofacial Anatomical Landmarks on CBCT Images Using 3D Mask R-CNN. *Lecture Notes in Computer Science*, **2019**, 130-137	0.9	2
27	A Longitudinal MRI Study of Amygdala and Hippocampal Subfields for Infants with Risk of Autism. *Lecture Notes in Computer Science*, **2019**, 11849, 164-171	0.9	11

26	Triplet Graph Convolutional Network for Multi-scale Analysis of Functional Connectivity Using Functional MRI. *Lecture Notes in Computer Science*, **2019**, 70-78	0.9	9
25	Treatment Outcome Prediction for Cancer Patients based on Radiomics and Belief Function Theory. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 216-224	4.2	15
24	Joint Tumor Segmentation in PET-CT Images Using Co-Clustering and Fusion Based on Belief Functions. *IEEE Transactions on Image Processing*, **2019**, 28, 755-766	8.7	45
23	Adaptive kernelized evidential clustering for automatic 3D tumor segmentation in FDG-PET images. *Multimedia Systems*, **2019**, 25, 127-133	2.2	1
22	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. *Medical Image Analysis*, **2018**, 46, 106-117	15.4	58
21	A deep Boltzmann machine-driven level set method for heart motion tracking using cine MRI images. *Medical Image Analysis*, **2018**, 47, 68-80	15.4	14
20	Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 21-30	5	20
19	Unsupervised co-segmentation of tumor in PET-CT images using belief functions based fusion **2018**,		3
18	Automatic Segmentation of 3D Perivascular Spaces in 7T MR Images Using Multi-Channel Fully Convolutional Network **2018**, 2018,	0	1
17	Developing Novel Weighted Correlation Kernels for Convolutional Neural Networks to Extract Hierarchical Functional Connectivities from fMRI for Disease Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11046, 1-9	0.9	3
16	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimer's Disease Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 455-463	0.9	45
15	Volume-Based Analysis of 6-Month-Old Infant Brain MRI for Autism Biomarker Identification and Early Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 411-419	0.9	41
14	Active learning with noise modeling for medical image annotation **2018**,		3
13	CONSTRUCTION OF SPATIOTEMPORAL INFANT CORTICAL SURFACE ATLAS OF RHESUS MACAQUE **2018**, 2018, 704-707	1.5	7
12	Heart motion tracking on cine MRI based on a deep Boltzmann machine-driven level set method **2018**,		1
11	Multimodality semantic segmentation based on polarization and color images. *Neurocomputing*, **2017**, 253, 193-200	5.4	10
10	Accurate tumor segmentation in FDG-PET images with guidance of complementary CT images **2017**,		1
9	Dissimilarity Metric Learning in the Belief Function Framework. *IEEE Transactions on Fuzzy Systems*, **2016**, 24, 1555-1564	8.3	25

8	Robust Cancer Treatment Outcome Prediction Dealing with Small-Sized and Imbalanced Data from FDG-PET Images. *Lecture Notes in Computer Science*, **2016**, 61-69	0.9	3
7	Joint Feature Transformation and Selection Based on Dempster-Shafer Theory. *Communications in Computer and Information Science*, **2016**, 253-261	0.3	
6	User-friendly random-grid-based visual secret sharing for general access structures. *Security and Communication Networks*, **2016**, 9, 966-976	1.9	3
5	Selecting radiomic features from FDG-PET images for cancer treatment outcome prediction. *Medical Image Analysis*, **2016**, 32, 257-68	15.4	48
4	Generalized Random Grid-Based Visual Secret Sharing for General Access Structures. *Computer Journal*, **2015**, 58, 2426-2442	1.3	3
3	Outcome prediction in tumour therapy based on Dempster-Shafer theory **2015**,		5
2	Dempster-Shafer Theory Based Feature Selection with Sparse Constraint for Outcome Prediction in Cancer Therapy. *Lecture Notes in Computer Science*, **2015**, 695-702	0.9	3
1	An evidential classifier based on feature selection and two-step classification strategy. *Pattern Recognition*, **2015**, 48, 2318-2327	7.7	45