Xiang Li

List of Publications by Year in descending order

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113 papers	3,335 citations	172386 29 h-index	168321 53 g-index
114 all docs	114 docs citations	114 times ranked	3539 citing authors

#	Article	IF	Citations
1	Connectivity-based Cortical Parcellation via Contrastive Learning on Spatial-Graph Convolution. BME Frontiers, 2022, 2022, .	2.2	1
2	Deep metric learning-based image retrieval system for chest radiograph and its clinical applications in COVID-19. Medical Image Analysis, 2021, 70, 101993.	7.0	46
3	Characterization of Brain Iron Deposition Pattern and Its Association With Genetic Risk Factor in Alzheimerâ€™s Disease Using Susceptibility-Weighted Imaging. Frontiers in Human Neuroscience, 2021, 15, 654381.	1.0	8
4	Left Ventricle Quantification Challenge: A Comprehensive Comparison and Evaluation of Segmentation and Regression for Mid-Ventricular Short-Axis Cardiac MR Data. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3541-3553.	3.9	8
5	Federated learning for predicting clinical outcomes in patients with COVID-19. Nature Medicine, 2021, 27, 1735-1743.	15.2	300
6	Four-Dimensional Modeling of fMRI Data via Spatioâ€“Temporal Convolutional Neural Networks (ST-CNNs). IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 451-460.	2.6	28
7	Automated Semantic Segmentation of Red Blood Cells for Sickle Cell Disease. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3095-3102.	3.9	29
8	Assessing Fine-Granularity Structural and Functional Connectivity in Children With Attention Deficit Hyperactivity Disorder. Frontiers in Human Neuroscience, 2020, 14, 594830.	1.0	2
9	ASCNET: Adaptive-Scale Convolutional Neural Networks for Multi-Scale Feature Learning. , 2020, , .		5
10	Sparse Representation-Based Denoising for High-Resolution Brain Activation and Functional Connectivity Modeling: A Task fMRI Study. IEEE Access, 2020, 8, 36728-36740.	2.6	9
11	Multi-label Detection and Classification of Red Blood Cells in Microscopic Images. , 2020, , .		6
12	Spatiotemporal Attention Autoencoder (STAAE) for ADHD Classification. Lecture Notes in Computer Science, 2020, , 508-517.	1.0	10
13	A Novel fMRI Representation Learning Framework with GAN. Lecture Notes in Computer Science, 2020, , 21-29.	1.0	2
14	Discovering Functional Brain Networks with 3D Residual Autoencoder (ResAE). Lecture Notes in Computer Science, 2020, , 498-507.	1.0	3
15	Experimental Comparisons of Sparse Dictionary Learning and Independent Component Analysis for Brain Network Inference From fMRI Data. IEEE Transactions on Biomedical Engineering, 2019, 66, 289-299.	2.5	54
16	Multi-Size Computer-Aided Diagnosis Of Positron Emission Tomography Images Using Graph Convolutional Networks. , 2019, , .		0
17	Automated Segmentation Of Cervical Nuclei In Pap Smear Images Using Deformable Multi-Path Ensemble Model. , 2019, , .		25
18	3D Regional Shape Analysis of Left Ventricle Using MR Images: Abnormal Myocadium Detection and Classification. , 2019, , .		0

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19	Novel Radiomic Features Based on Graph Theory for PET Image Analysis. , 2019, , .		1
20	Deep learning-enabled system for rapid pneumothorax screening on chest CT. European Journal of Radiology, 2019, 120, 108692.	1.2	34
21	Predicting Alzheimerâ€™s Disease by Hierarchical Graph Convolution from Positron Emission Tomography Imaging. , 2019, , .		23
22	Functional Neuroimaging in the New Era of Big Data. Genomics, Proteomics and Bioinformatics, 2019, 17, 393-401.	3.0	25
23	Deep Learning-Based Image Segmentation on Multimodal Medical Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 162-169.	2.7	226
24	Functional Brain Connectivity Revealed by Sparse Coding of Large-Scale Local Field Potential Dynamics. Brain Topography, 2019, 32, 255-270.	0.8	6
25	A Distributed Computing Platform for fMRI Big Data Analytics. IEEE Transactions on Big Data, 2019, 5, 109-119.	4.4	10
26	Consensus Neural Network for Medical Imaging Denoising with Only Noisy Training Samples. Lecture Notes in Computer Science, 2019, , 741-749.	1.0	32
27	Multi-estimator Full Left Ventricle Quantification Through Ensemble Learning. Lecture Notes in Computer Science, 2019, , 459-465.	1.0	2
28	Artificial Intelligence and Machine Learning in Radiology: Opportunities, Challenges, Pitfalls, and Criteria for Success. Journal of the American College of Radiology, 2018, 15, 504-508.	0.9	445
29	Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. IEEE Transactions on Biomedical Engineering, 2018, 65, 1183-1192.	2.5	34
30	Spatio-temporal modeling of connectome-scale brain network interactions via time-evolving graphs. NeuroImage, 2018, 180, 350-369.	2.1	23
31	A Dictionary Learning Approach for Signal Sampling in Task-Based fMRI for Reduction of Big Data. Frontiers in Neuroinformatics, 2018, 12, 17.	1.3	6
32	Medical image segmentation based on multi-modal convolutional neural network: Study on image fusion schemes. , 2018, , .		46
33	Modeling 4D fMRI Data via Spatio-Temporal Convolutional Neural Networks (ST-CNN). Lecture Notes in Computer Science, 2018, , 181-189.	1.0	28
34	RBC Semantic Segmentation for Sickle Cell Disease Based on Deformable U-Net. Lecture Notes in Computer Science, 2018, , 695-702.	1.0	20
35	Modeling complexity in engineered infrastructure system: Water distribution network as an example. Chaos, 2017, 27, 023105.	1.0	14
36	Transcriptome Architecture of Adult Mouse Brain Revealed by Sparse Coding of Genome-Wide In Situ Hybridization Images. Neuroinformatics, 2017, 15, 285-295.	1.5	8

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37	Atmospheric size-resolved trace elements in a city affected by non-ferrous metal smelting: Indications of respiratory deposition and health risk. Environmental Pollution, 2017, 224, 559-571.	3.7	63
38	Cell classification using convolutional neural networks in medical hyperspectral imagery. , 2017, , .		10
39	Exploring human brain activation via nested sparse coding and functional operators. , 2017, , .		2
40	Discover mouse gene coexpression landscapes using dictionary learning and sparse coding. Brain Structure and Function, 2017, 222, 4253-4270.	1.2	7
41	Template-guided Functional Network Identification via Supervised Dictionary Learning. , 2017, , .		0
42	Dictionary learning in the analysis sparse representation with optimization on Stiefel manifold. , 2017, , .		1
43	Self-paced Convolutional Neural Network for Computer Aided Detection in Medical Imaging Analysis. Lecture Notes in Computer Science, 2017, , 212-219.	1.0	8
44	Dictionary Learning and Sparse Coding-Based Denoising for High-Resolution Task Functional Connectivity MRI Analysis. Lecture Notes in Computer Science, 2017, , 45-52.	1.0	3
45	Implementing dictionary learning in Apache Flink, Or: How I learned to relax and love iterations. , 2016, , .		1
46	Distributed rank-1 dictionary learning: Towards fast and scalable solutions for fMRI big data analytics. , 2016, , .		2
47	Scalable Fast Rank-1 Dictionary Learning for fMRI Big Data Analysis. , 2016, , .		10
48	Identifying group-wise consistent sub-networks via spatial sparse representation of natural stimulus FMRI data. , 2016, , .		1
49	Modeling functional network dynamics via multi-scale dictionary learning and network continuums. , 2016, , .		0
50	Multple-demand system identification and characterization via sparse representations of fMRI data. , 2016, , .		7
51	Discover Mouse Gene Coexpression Landscape Using Dictionary Learning and Sparse Coding. Lecture Notes in Computer Science, 2016, , 63-71.	1.0	0
52	Signal sampling for efficient sparse representation of resting state FMRI data. Brain Imaging and Behavior, 2016, 10, 1206-1222.	1.1	11
53	Predicting Movie Trailer Viewer's â€œLike/Dislikeâ€•via Learned Shot Editing Patterns. IEEE Transactions on Affective Computing, 2016, 7, 29-44.	5.7	13
54	Characterizing and differentiating task-based and resting state fMRI signals via two-stage sparse representations. Brain Imaging and Behavior, 2016, 10, 21-32.	1.1	68

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55	Modeling Functional Dynamics of Cortical Gyri and Sulci. Lecture Notes in Computer Science, 2016, , 19-27.	1.0	3
56	Characterizing and differentiating task-based and resting state FMRI signals via two-stage dictionary learning. , 2015, , .		0
57	Sparse representation of <scp>HCP</scp> grayordinate data reveals novel functional architecture of cerebral cortex. Human Brain Mapping, 2015, 36, 5301-5319.	1.9	65
58	Interactive exemplar-based segmentation toolkit for biomedical image analysis. , 2015, , .		5
59	Dynamic Bayesian brain network partition and connectivity change point detection. , 2015, , .		0
60	Atomic connectomics signatures for characterization and differentiation of mild cognitive impairment. Brain Imaging and Behavior, 2015, 9, 663-677.	1.1	12
61	Assessing effects of prenatal alcohol exposure using group-wise sparse representation of fMRI data. Psychiatry Research - Neuroimaging, 2015, 233, 254-268.	0.9	32
62	Holistic Atlases of Functional Networks and Interactions Reveal Reciprocal Organizational Architecture of Cortical Function. IEEE Transactions on Biomedical Engineering, 2015, 62, 1120-1131.	2.5	134
63	Signal sampling for efficient sparse representation of resting state FMRI data. , 2015, , .		3
64	HAFNI-enabled largescale platform for neuroimaging informatics (HELPNI). Brain Informatics, 2015, 2, 225-238.	1.8	13
65	Sparse representation of whole-brain fMRI signals for identification of functional networks. Medical Image Analysis, 2015, 20, 112-134.	7.0	181
66	Characterizing and Differentiating Brain State Dynamics via Hidden Markov Models. Brain Topography, 2015, 28, 666-679.	0.8	61
67	Sparse representation of working memory processes based on fMRI data. , 2014, , .		0
68	Learning fMRI-guided predictor of video shot changes. , 2014, , .		1
69	Inferring functional interaction and transition patterns via dynamic bayesian variable partition models. Human Brain Mapping, 2014, 35, 3314-3331.	1.9	34
70	The accuracy of two- and three-way positive matrix factorization models: Applying simulated multisite data sets. Journal of the Air and Waste Management Association, 2014, 64, 1122-1129.	0.9	8
71	Exploring functional brain dynamics via a Bayesian connectivity change point model. , 2014, , .		9
72	Exploring consistent functional brain networks during free viewing of videos via sparse representation. , 2014, , .		1

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73	Dynamic network partition via Bayesian connectivity bi-partition change point model. , 2014, , .		2
74	Dynamic functional connectomics signatures for characterization and differentiation of PTSD patients. Human Brain Mapping, 2014, 35, 1761-1778.	1.9	135
75	Generalized fMRI activation detection via Bayesian magnitude change point model. , 2014, , .		6
76	Detecting cell assembly interaction patterns via Bayesian based change-point detection and graph inference model. , 2014, , .		2
77	Discovering network-level functional interactions from working memory fMRI data. , 2014, , .		0
78	The timing and directional connectivity of human frontoparietal and ventral visual attention networks in emotional scene perception. Neuroscience, 2014, 277, 229-238.	1.1	35
79	Local and long-range transport influences on PM 2.5 at a cities-cluster in northern China, during summer 2008. Particuology, 2014, 13, 66-72.	2.0	14
80	Atomic dynamic functional interaction patterns for characterization of ADHD. Human Brain Mapping, 2014, 35, 5262-5278.	1.9	32
81	Identifying and Characterizing Resting State Networks in Temporally Dynamic Functional Connectomes. Brain Topography, 2014, 27, 747-765.	0.8	11
82	Characterization of task-free and task-performance brain states via functional connectome patterns. Medical Image Analysis, 2013, 17, 1106-1122.	7.0	30
83	Identifying functional networks via sparse coding of whole brain FMRI signals. , 2013, , .		6
84	Activated cliques: Network-based activation detection in task-based FMRI. , 2013, , .		1
85	Group-wise change point detection in task FMRI data by Bayesian methods. , 2013, , .		1
86	Meta-Analysis of Functional Roles of DICCCOLs. Neuroinformatics, 2013, 11, 47-63.	1.5	28
87	Detecting Brain State Changes via Fiber-Centered Functional Connectivity Analysis. Neuroinformatics, 2013, 11, 193-210.	1.5	26
88	Identifying functional connectomics abnormality in attention deficit hyperactivity disorder. , 2013, , .		4
89	Modeling brain functional dynamics via hidden Markov models. , 2013, , .		11
90	Discovering common functional connectomics signatures. , 2013, , .		0

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91	Exploring High-Order Functional Interactions via Structurally-Weighted LASSO Models. Lecture Notes in Computer Science, 2013, 23, 13-24.	1.0	9
92	Sparse Representation of Group-Wise FMRI Signals. Lecture Notes in Computer Science, 2013, 16, 608-616.	1.0	9
93	Sparse Representation of Higher-Order Functional Interaction Patterns in Task-Based FMRI Data. Lecture Notes in Computer Science, 2013, 16, 626-634.	1.0	13
94	Seasonal Study of Primary and Secondary Sources of Carbonaceous Species in PM10 from Five Northern Chinese Cities. Aerosol and Air Quality Research, 2013, 13, 148-161.	0.9	7
95	Computer Assisted Pathway Generation for Atrazine Degradation in Advanced Oxidation Processes. Journal of Environmental Protection, 2013, 04, 62-69.	0.3	1
96	Modeling Dynamic Functional Information Flows on Large-Scale Brain Networks. Lecture Notes in Computer Science, 2013, 16, 698-705.	1.0	3
97	Vertical characteristics of carbonaceous species and their source contributions in a Chinese mega city. Atmospheric Environment, 2012, 60, 358-365.	1.9	21
98	Concentrations and sources of PAHs in surface sediments of the Fenhe reservoir and watershed, China. Ecotoxicology and Environmental Safety, 2012, 75, 198-206.	2.9	86
99	Inferring consistent functional interaction patterns from natural stimulus FMRI data. NeuroImage, 2012, 61, 987-999.	2.1	32
100	Characterization of Task-Free/Task-Performance Brain States. Lecture Notes in Computer Science, 2012, 15, 237-245.	1.0	9
101	Fiber-Centered Granger Causality Analysis. Lecture Notes in Computer Science, 2011, 14, 251-259.	1.0	10
102	Estimated contributions and uncertainties of PCA/MLRâ€“CMB results: Source apportionment for synthetic and ambient datasets. Atmospheric Environment, 2011, 45, 2811-2819.	1.9	84
103	Estimation of the concentrations of primary and secondary organic carbon in ambient particulate matter: Application of the CMB-Iteration method. Atmospheric Environment, 2011, 45, 5692-5698.	1.9	27
104	The study on vertical variability of PM10 and the possible sources on a 220Âm tower, in Tianjin, China. Atmospheric Environment, 2011, 45, 6133-6140.	1.9	50
105	Brain state change detection via fiber-centered functional connectivity analysis. , 2011, , .		5
106	Determination of Buffering Capacity of Total Suspended Particle and Its Source Apportionment Using the Chemical Mass Balance Approach. Journal of the Air and Waste Management Association, 2011, 61, 7-13.	0.9	4
107	Characterization of Elemental Species in PM2.5 Samples Collected in Four Cities of Northeast China. Water, Air, and Soil Pollution, 2010, 209, 15-28.	1.1	68
108	Application of a Combined Model to Study the Source Apportionment of PM10 in Taiyuan, China. Aerosol and Air Quality Research, 2010, 10, 177-184.	0.9	27

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109	Source Characterization and Apportionment of PM10 in Panzhihua, China. Aerosol and Air Quality Research, 2010, 10, 367-377.	0.9	50
110	Chemical characterizations of PM10 fraction of paved road dust in Anshan, China. Transportation Research, Part D: Transport and Environment, 2009, 14, 599-603.	3.2	8
111	Combined source apportionment, using positive matrix factorizationâ€“chemical mass balance and principal component analysis/multiple linear regressionâ€“chemical mass balance models. Atmospheric Environment, 2009, 43, 2929-2937.	1.9	79
112	Use of a Nonnegative Constrained Principal Component Regression Chemical Mass Balance Model to Study the Contributions of Nearly Collinear Sources. Environmental Science & Technology, 2009, 43, 8867-8873.	4.6	50
113	Source Identification of Polycyclic Aromatic Hydrocarbons in Urban Particulate Matter of Tangshan, China. Aerosol and Air Quality Research, 2009, 9, 309-315.	0.9	34