Islem Rekik

List of Publications by Citations

120 papers	1,165 citations	18 h-index	28 g-index
129 ext. papers	1,499 ext. citations	4 avg, IF	5.45 L-index

#	Paper	IF	Citations
120	Medical image analysis methods in MR/CT-imaged acute-subacute ischemic stroke lesion: Segmentation, prediction and insights into dynamic evolution simulation models. A critical appraisal. *NeuroImage: Clinical*, **2012**, 1, 164-78	5.3	86
119	Computational neuroanatomy of baby brains: A review. *NeuroImage*, **2019**, 185, 906-925	7.9	82
118	Brain multiplexes reveal morphological connectional biomarkers fingerprinting late brain dementia states. *Scientific Reports*, **2018**, 8, 4103	4.9	60
117	Convolutional Neural Network for Reconstruction of 7T-like Images from 3T MRI Using Appearance and Anatomical Features. *Lecture Notes in Computer Science*, **2016**, 39-47	0.9	59
116	Unsupervised Manifold Learning Using High-Order Morphological Brain Networks Derived From T1-w MRI for Autism Diagnosis. *Frontiers in Neuroinformatics*, **2018**, 12, 70	3.9	43
115	Diagnosis of Autism Spectrum Disorders Using Multi-Level High-Order Functional Networks Derived From Resting-State Functional MRI. *Frontiers in Human Neuroscience*, **2018**, 12, 184	3.3	34
114	Joint Pairing and Structured Mapping of Convolutional Brain Morphological Multiplexes for Early Dementia Diagnosis. *Brain Connectivity*, **2019**, 9, 22-36	2.7	31
113	Combining tract- and atlas-based analysis reveals microstructural abnormalities in early Tourette syndrome children. *Human Brain Mapping*, **2016**, 37, 1903-19	5.9	29
112	7T-guided super-resolution of 3T MRI. *Medical Physics*, **2017**, 44, 1661-1677	4.4	28
111	Estimation of connectional brain templates using selective multi-view network normalization. *Medical Image Analysis*, **2020**, 59, 101567	15.4	26
110	Tumor growth parameters estimation and source localization from a unique time point: Application to low-grade gliomas. *Computer Vision and Image Understanding*, **2013**, 117, 238-249	4.3	25
109	Outcome Prediction for Patient with High-Grade Gliomas from Brain Functional and Structural Networks. *Lecture Notes in Computer Science*, **2016**, 9901, 26-34	0.9	24
108	Combining Disrupted and Discriminative Topological Properties of Functional Connectivity Networks as Neuroimaging Biomarkers for Accurate Diagnosis of Early Tourette Syndrome Children. *Molecular Neurobiology*, **2018**, 55, 3251-3269	6.2	22
107	Predicting infant cortical surface development using a 4D varifold-based learning framework and local topography-based shape morphing. *Medical Image Analysis*, **2016**, 28, 1-12	15.4	20
106	Overall survival time prediction for high-grade glioma patients based on large-scale brain functional networks. *Brain Imaging and Behavior*, **2019**, 13, 1333-1351	4.1	20
105	Disrupted topological organization of structural networks revealed by probabilistic diffusion tractography in Tourette syndrome children. *Human Brain Mapping*, **2017**, 38, 3988-4008	5.9	19
104	Joint prediction of longitudinal development of cortical surfaces and white matter fibers from neonatal MRI. *NeuroImage*, **2017**, 152, 411-424	7.9	19

103	Gender differences in cortical morphological networks. *Brain Imaging and Behavior*, **2020**, 14, 1831-1839	4.1	19
102	Multi-modal multiple kernel learning for accurate identification of Tourette syndrome children. *Pattern Recognition*, **2017**, 63, 601-611	7.7	18
101	Cooperative Correlational and Discriminative Ensemble Classifier Learning for Early Dementia Diagnosis Using Morphological Brain Multiplexes. *IEEE Access*, **2018**, 6, 43830-43839	3.5	17
100	Exploring folding patterns of infant cerebral cortex based on multi-view curvature features: Methods and applications. *NeuroImage*, **2019**, 185, 575-592	7.9	16
99	Diagnosis of Autism Spectrum Disorder Using Central-Moment Features From Low- and High-Order Dynamic Resting-State Functional Connectivity Networks. *Frontiers in Neuroscience*, **2020**, 14, 258	5.1	15
98	Pairing-based Ensemble Classifier Learning using Convolutional Brain Multiplexes and Multi-view Brain Networks for Early Dementia Diagnosis. *Lecture Notes in Computer Science*, **2017**, 42-50	0.9	15
97	Morphological Brain Age Prediction using Multi-View Brain Networks Derived from Cortical Morphology in Healthy and Disordered Participants. *Scientific Reports*, **2019**, 9, 9676	4.9	14
96	Joint Reconstruction and Segmentation of 7T-like MR Images from 3T MRI Based on Cascaded Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2017**, 10433, 764-772	0.9	14
95	High-order Connectomic Manifold Learning for Autistic Brain State Identification. *Lecture Notes in Computer Science*, **2017**, 51-59	0.9	14
94	Estimation of Clean and Centered Brain Network Atlases using Diffusive-Shrinking Graphs with Application to Developing Brains. *Lecture Notes in Computer Science*, **2017**, 10265, 385-397	0.9	14
93	Automatic brain labeling via multi-atlas guided fully convolutional networks. *Medical Image Analysis* , **2019**, 51, 157-168	15.4	14
92	Clustering-based multi-view network fusion for estimating brain network atlases of healthy and disordered populations. *Journal of Neuroscience Methods*, **2019**, 311, 426-435	3	14
91	Machine learning methods for brain network classification: Application to autism diagnosis using cortical morphological networks. *Journal of Neuroscience Methods*, **2020**, 343, 108799	3	13
90	RFDCR: Automated brain lesion segmentation using cascaded random forests with dense conditional random fields. *NeuroImage*, **2020**, 211, 116620	7.9	13
89	Individual identification and individual variability analysis based on cortical folding features in developing infant singletons and twins. *Human Brain Mapping*, **2020**, 41, 1985-2003	5.9	13
88	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. *Human Brain Mapping*, **2017**, 38, 2865-2874	5.9	12
87	Deep Graph Normalizer: A Geometric Deep Learning Approach for Estimating Connectional Brain Templates. *Lecture Notes in Computer Science*, **2020**, 155-165	0.9	12
86	Joint functional brain network atlas estimation and feature selection for neurological disorder diagnosis with application to autism. *Medical Image Analysis*, **2020**, 60, 101596	15.4	12

85	Identifying the best data-driven feature selection method for boosting reproducibility in classification tasks. *Pattern Recognition*, **2020**, 101, 107183	7.7	12
84	Multi-view learning-based data proliferator for boosting classification using highly imbalanced classes. *Journal of Neuroscience Methods*, **2019**, 327, 108344	3	11
83	Using longitudinal metamorphosis to examine ischemic stroke lesion dynamics on perfusion-weighted images and in relation to final outcome on T2-w images. *NeuroImage: Clinical*, **2014**, 5, 332-40	5.3	11
82	Tree-based Ensemble Classifier Learning for Automatic Brain Glioma Segmentation. *Neurocomputing*, **2018**, 313, 135-142	5.4	10
81	Learning-Guided Infinite Network Atlas Selection for Predicting Longitudinal Brain Network Evolution from a Single Observation. *Lecture Notes in Computer Science*, **2019**, 796-805	0.9	10
80	Prediction of Infant MRI Appearance and Anatomical Structure Evolution using Sparse Patch-based Metamorphosis Learning Framework. *Lecture Notes in Computer Science*, **2015**, 9467, 197-204	0.9	10
79	Multidirectional and Topography-based Dynamic-scale Varifold Representations with Application to Matching Developing Cortical Surfaces. *NeuroImage*, **2016**, 135, 152-62	7.9	9
78	Predicting full-scale and verbal intelligence scores from functional Connectomic data in individuals with autism Spectrum disorder. *Brain Imaging and Behavior*, **2020**, 14, 1769-1778	4.1	9
77	Brain graph super-resolution for boosting neurological disorder diagnosis using unsupervised multi-topology connectional brain template learning. *Medical Image Analysis*, **2020**, 65, 101768	15.4	8
76	Deep EvoGraphNet Architecture for Time-Dependent Brain Graph Data Synthesis from a Single Timepoint. *Lecture Notes in Computer Science*, **2020**, 144-155	0.9	7
75	Neuropsychiatric disease classification using functional connectomics - results of the connectomics in neuroimaging transfer learning challenge. *Medical Image Analysis*, **2021**, 70, 101972	15.4	7
74	Brain graph synthesis by dual adversarial domain alignment and target graph prediction from a source graph. *Medical Image Analysis*, **2021**, 68, 101902	15.4	7
73	Autism Spectrum Disorder Diagnosis Using Sparse Graph Embedding of Morphological Brain Networks. *Lecture Notes in Computer Science*, **2017**, 12-20	0.9	6
72	Foreseeing Brain Graph Evolution over Time Using Deep Adversarial Network Normalizer. *Lecture Notes in Computer Science*, **2020**, 111-122	0.9	6
71	Prediction of Longitudinal Development of Infant Cortical Surface Shape Using a 4D Current-Based Learning Framework. *Lecture Notes in Computer Science*, **2015**, 24, 576-87	0.9	6
70	Dynamic Multi-scale CNN Forest Learning for Automatic Cervical Cancer Segmentation. *Lecture Notes in Computer Science*, **2018**, 19-27	0.9	6
69	Spatiotemporal dynamic simulation of acute perfusion/diffusion ischemic stroke lesions evolution: a pilot study derived from longitudinal MR patient data. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 283593	2.8	5
68	Joint Prediction and Classification of Brain Image Evolution Trajectories from Baseline Brain Image with Application to Early Dementia. *Lecture Notes in Computer Science*, **2018**, 437-445	0.9	5

67	Topology-Aware Generative Adversarial Network for Joint Prediction of Multiple Brain Graphs from a Single Brain Graph. *Lecture Notes in Computer Science*, **2020**, 551-561	0.9	5
66	A novel approach to multiple anatomical shape analysis: Application to fetal ventriculomegaly. *Medical Image Analysis*, **2020**, 64, 101750	15.4	4
65	Malignant Brain Tumor Classification Using the Random Forest Method. *Lecture Notes in Computer Science*, **2018**, 14-21	0.9	4
64	Adversarial Connectome Embedding for Mild Cognitive Impairment Identification Using Cortical Morphological Networks. *Lecture Notes in Computer Science*, **2019**, 74-82	0.9	4
63	Supervised Multi-topology Network Cross-Diffusion for Population-Driven Brain Network Atlas Estimation. *Lecture Notes in Computer Science*, **2020**, 166-176	0.9	4
62	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	0.9	4
61	Topology-guided cyclic brain connectivity generation using geometric deep learning. *Journal of Neuroscience Methods*, **2021**, 353, 108988	3	4
60	Multi-Regression based supervised sample selection for predicting baby connectome evolution trajectory from neonatal timepoint. *Medical Image Analysis*, **2021**, 68, 101853	15.4	4
59	Semi-automatic lymph node segmentation and classification using cervical cancer MR imaging **2018** ,		4
58	Brain graph super-resolution using adversarial graph neural network with application to functional brain connectivity. *Medical Image Analysis*, **2021**, 71, 102084	15.4	4
57	. *IEEE Access*, **2019**, 7, 30079-30088	3.5	3
56	Quantifying the reproducibility of graph neural networks using multigraph data representation.. *Neural Networks*, **2022**, 148, 254-265	9.1	3
55	Multi-view Brain Network Prediction from a Source View Using Sample Selection via CCA-Based Multi-kernel Connectomic Manifold Learning. *Lecture Notes in Computer Science*, **2018**, 94-102	0.9	3
54	Hierarchical Adversarial Connectomic Domain Alignment for Target Brain Graph Prediction and Classification from a Source Graph. *Lecture Notes in Computer Science*, **2019**, 105-114	0.9	3
53	Predicting High-Resolution Brain Networks Using Hierarchically Embedded and Aligned Multi-resolution Neighborhoods. *Lecture Notes in Computer Science*, **2019**, 115-124	0.9	3
52	Progressive Infant Brain Connectivity Evolution Prediction from Neonatal MRI Using Bidirectionally Supervised Sample Selection. *Lecture Notes in Computer Science*, **2019**, 63-72	0.9	3
51	Context-Aware Synergetic Multiplex Network for Multi-organ Segmentation of Cervical Cancer MRI. *Lecture Notes in Computer Science*, **2020**, 1-11	0.9	3
50	GSR-Net: Graph Super-Resolution Network for Predicting High-Resolution from Low-Resolution Functional Brain Connectomes. *Lecture Notes in Computer Science*, **2020**, 139-149	0.9	3

49	Topography-Based Registration of Developing Cortical Surfaces in Infants Using Multidirectional Varifold Representation. *Lecture Notes in Computer Science*, **2015**, 9350, 230-237	0.9	3
48	Brain multigraph prediction using topology-aware adversarial graph neural network. *Medical Image Analysis*, **2021**, 72, 102090	15.4	3
47	Two-Phase Incremental Kernel PCA for Learning Massive or Online Datasets. *Complexity*, **2019**, 2019, 1-17	1.6	2
46	7T-Guided Learning Framework for Improving the Segmentation of 3T MR Images. *Lecture Notes in Computer Science*, **2016**, 9901, 572-580	0.9	2
45	LONGITUDINAL MULTI-SCALE MAPPING OF INFANT CORTICAL FOLDING USING SPHERICAL WAVELETS **2017**, 2017, 93-96	1.5	2
44	Predicting cognitive scores with graph neural networks through sample selection learning. *Brain Imaging and Behavior*, **2021**, 1	4.1	2
43	Dynamic Multiscale Tree Learning using Ensemble Strong Classifiers for Multi-label Segmentation of Medical Images with Lesions **2018**,		2
42	Symmetric Dual Adversarial Connectomic Domain Alignment for Predicting Isomorphic Brain Graph from a Baseline Graph. *Lecture Notes in Computer Science*, **2019**, 465-474	0.9	2
41	Multi-view Brain HyperConnectome AutoEncoder for Brain State Classification. *Lecture Notes in Computer Science*, **2020**, 101-110	0.9	2
40	A Computational Framework for Dissociating Development-Related from Individually Variable Flexibility in Regional Modularity Assignment in Early Infancy. *Lecture Notes in Computer Science*, **2020**, 12267, 13-21	0.9	2
39	Predicting Emotional Intelligence Scores from Multi-session Functional Brain Connectomes. *Lecture Notes in Computer Science*, **2018**, 103-111	0.9	2
38	7 Years of Developing Seed Techniques for Alzheimer Disease Diagnosis Using Brain Image and Connectivity Data Largely Bypassed Prediction for Prognosis. *Lecture Notes in Computer Science*, **2019**, 81-93	0.9	2
37	Clustering-Based Deep Brain MultiGraph Integrator Network for Learning Connectional Brain Templates. *Lecture Notes in Computer Science*, **2020**, 109-120	0.9	2
36	Adversarial brain multiplex prediction from a single brain network with application to gender fingerprinting. *Medical Image Analysis*, **2021**, 67, 101843	15.4	2
35	Recurrent Brain Graph Mapper for Predicting Time-Dependent Brain Graph Evaluation Trajectory. *Lecture Notes in Computer Science*, **2021**, 180-190	0.9	2
34	One Representative-Shot Learning Using a Population-Driven Template with Application to Brain Connectivity Classification and Evolution Prediction. *Lecture Notes in Computer Science*, **2021**, 25-36	0.9	2
33	XmoNet: A Fully Convolutional Network for Cross-Modality MR Image Inference. *Lecture Notes in Computer Science*, **2018**, 129-137	0.9	2
32	Data-Specific Feature Selection Method Identification for Most Reproducible Connectomic Feature Discovery Fingerprinting Brain States. *Lecture Notes in Computer Science*, **2018**, 99-106	0.9	2

31	Revealing Regional Associations of Cortical Folding Alterations with In Utero Ventricular Dilation Using Joint Spectral Embedding. *Lecture Notes in Computer Science*, **2018**, 11072, 620-627	0.9	2
30	ESTIMATION OF SHAPE AND GROWTH BRAIN NETWORK ATLASES FOR CONNECTOMIC BRAIN MAPPING IN DEVELOPING INFANTS **2018**, 2018, 985-989	1.5	2
29	Joint Correlational and Discriminative Ensemble Classifier Learning for Dementia Stratification Using Shallow Brain Multiplexes. *Lecture Notes in Computer Science*, **2018**, 599-607	0.9	2
28	Non-isomorphic Inter-modality Graph Alignment and Synthesis for Holistic Brain Mapping. *Lecture Notes in Computer Science*, **2021**, 203-215	0.9	2
27	Longitudinal multi-scale mapping of infant cortical folding using spherical wavelets **2017**,		1
26	A Comparative Study of Machine Learning Methods for Predicting the Evolution of Brain Connectivity from a Baseline Timepoint.. *Journal of Neuroscience Methods*, **2022**, 368, 109475	3	1
25	A Federated Multigraph Integration Approach for Connectional Brain Template Learning. *Lecture Notes in Computer Science*, **2021**, 36-47	0.9	1
24	Do Baby Brain Cortices that Look Alike at Birth Grow Alike During the First Year of Postnatal Development?. *Lecture Notes in Computer Science*, **2018**, 566-574	0.9	1
23	Multi-scale Profiling of Brain Multigraphs by Eigen-Based Cross-diffusion and Heat Tracing for Brain State Profiling. *Lecture Notes in Computer Science*, **2020**, 142-151	0.9	1
22	Residual Embedding Similarity-Based Network Selection for Predicting Brain Network Evolution Trajectory from a Single Observation. *Lecture Notes in Computer Science*, **2020**, 12-23	0.9	1
21	Estimation of gender-specific connectional brain templates using joint multi-view cortical morphological network integration. *Brain Imaging and Behavior*, **2021**, 15, 2081-2100	4.1	1
20	Boosting CNN Learning by Ensemble Image Preprocessing Methods for Cervical Cancer Segmentation **2021**,		1
19	A Novel Unit-Based Personalized Fingerprint Feature Selection Strategy for Dynamic Functional Connectivity Networks. *Frontiers in Neuroscience*, **2021**, 15, 651574	5.1	1
18	MGN-Net: A multi-view graph normalizer for integrating heterogeneous biological network populations. *Medical Image Analysis*, **2021**, 71, 102059	15.4	1
17	A diagnostic unified classification model for classifying multi-sized and multi-modal brain graphs using graph alignment. *Journal of Neuroscience Methods*, **2021**, 348, 109014	3	1
16	StairwayGraphNet for Inter- and Intra-modality Multi-resolution Brain Graph Alignment and Synthesis. *Lecture Notes in Computer Science*, **2021**, 140-150	0.9	1
15	Template-Based Inter-modality Super-Resolution of Brain Connectivity. *Lecture Notes in Computer Science*, **2021**, 70-82	0.9	1
14	Recurrent Multigraph Integrator Network for Predicting the Evolution of Population-Driven Brain Connectivity Templates. *Lecture Notes in Computer Science*, **2021**, 584-594	0.9	1

13	Classification of rat mammary carcinoma with large scale in vivo microwave measurements.. *Scientific Reports*, **2022**, 12, 349	4.9	0
12	A Few-Shot Learning Graph Multi-trajectory Evolution Network for Forecasting Multimodal Baby Connectivity Development from a Baseline Timepoint. *Lecture Notes in Computer Science*, **2021**, 11-24	0.9	0
11	Intact Connectional Morphometricity Learning Using Multi-view Morphological Brain Networks with Application to Autism Spectrum Disorder. *Lecture Notes in Computer Science*, **2018**, 38-46	0.9	0
10	Constructing high-order functional connectivity network based on central moment features for diagnosis of autism spectrum disorder. *PeerJ*, **2021**, 9, e11692	3.1	0
9	MTANS: Multi-Scale Mean Teacher Combined Adversarial Network with Shape-Aware Embedding for Semi-Supervised Brain Lesion Segmentation. *NeuroImage*, **2021**, 244, 118568	7.9	0
8	Multigraph classification using learnable integration network with application to gender fingerprinting.. *Neural Networks*, **2022**, 151, 250-263	9.1	0
7	Phase-based metamorphosis of diffusion lesion in relation to perfusion values in acute ischemic stroke. *NeuroImage: Clinical*, **2015**, 9, 44-9	5.3	
6	Graph Morphology-Based Genetic Algorithm for Classifying Late Dementia States. *Lecture Notes in Computer Science*, **2019**, 21-31	0.9	
5	Adversarial Brain Multiplex Prediction from a Single Network for High-Order Connectional Gender-Specific Brain Mapping. *Lecture Notes in Computer Science*, **2020**, 24-34	0.9	
4	FLAT-Net: Longitudinal Brain Graph Evolution Prediction from a Few Training Representative Templates. *Lecture Notes in Computer Science*, **2021**, 266-278	0.9	
3	Investigating and Quantifying the Reproducibility of Graph Neural Networks in Predictive Medicine. *Lecture Notes in Computer Science*, **2021**, 104-116	0.9	
2	Inter-domain Alignment for Predicting High-Resolution Brain Networks Using Teacher-Student Learning. *Lecture Notes in Computer Science*, **2021**, 203-215	0.9	
1	Brain atrophy patterns in multiple sclerosis patients treated with natalizumab and its clinical correlates.. *Brain and Behavior*, **2022**, e2573	3.4	