Heung-Il Suk

List of Publications by Year in Descending Order

82 papers	5,165 citations	25 h-index	71 g-index
88 ext. papers	6,589 ext. citations	5.5 avg, IF	6.53 L-index

#	Paper	IF	Citations
82	Semi-supervised generative and discriminative adversarial learning for motor imagery-based brain-computer interface.. *Scientific Reports*, **2022**, 12, 4587	4.9	0
81	Uncertainty-Gated Stochastic Sequential Model for EHR Mortality Prediction. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 4052-4062	10.3	2
80	Multi-Scale Neural Network for EEG Representation Learning in BCI. *IEEE Computational Intelligence Magazine*, **2021**, 16, 31-45	5.6	10
79	A Survey on Deep Learning-Based Short/Zero-Calibration Approaches for EEG-Based Brain-Computer Interfaces. *Frontiers in Human Neuroscience*, **2021**, 15, 643386	3.3	5
78	An index based on deep learning-measured spleen volume on CT for the assessment of high-risk varix in B-viral compensated cirrhosis. *European Radiology*, **2021**, 31, 3355-3365	8	5
77	Liver-to-Spleen Volume Ratio Automatically Measured on CT Predicts Decompensation in Patients with B Viral Compensated Cirrhosis. *Korean Journal of Radiology*, **2021**, 22, 1985-1995	6.9	3
76	Uncertainty-Aware Variational-Recurrent Imputation Network for Clinical Time Series. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	5
75	Electrophysiological Decoding of Spatial and Color Processing in Human Prefrontal Cortex. *NeuroImage*, **2021**, 237, 118165	7.9	1
74	Deep recurrent model for individualized prediction of Alzheimer's disease progression. *NeuroImage*, **2021**, 237, 118143	7.9	1
73	Population-based and Personalized Reference Intervals for Liver and Spleen Volumes in Healthy Individuals and Those with Viral Hepatitis. *Radiology*, **2021**, 301, 339-347	20.5	0
72	A unified framework for personalized regions selection and functional relation modeling for early MCI identification. *NeuroImage*, **2021**, 236, 118048	7.9	2
71	Inter-regional High-Level Relation Learning from Functional Connectivity via Self-supervision. *Lecture Notes in Computer Science*, **2021**, 284-293	0.9	0
70	Mutual Information-Driven Subject-Invariant and Class-Relevant Deep Representation Learning in BCI. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	4
69	VIGNet: A Deep Convolutional Neural Network for EEG-based Driver Vigilance Estimation **2020**,		11
68	A Novel RL-assisted Deep Learning Framework for Task-informative Signals Selection and Classification for Spontaneous BCIs. *IEEE Transactions on Industrial Informatics*, **2020**, 1-1	11.9	5
67	Deep Learning Algorithm for Automated Segmentation and Volume Measurement of the Liver and Spleen Using Portal Venous Phase Computed Tomography Images. *Korean Journal of Radiology*, **2020**, 21, 987-997	6.9	16
66	Enriched Representation Learning in Resting-State fMRI for Early MCI Diagnosis. *Lecture Notes in Computer Science*, **2020**, 397-406	0.9	3

No.	Title	IF	Citations
65	Identifying resting-state effective connectivity abnormalities in drug-naïve major depressive disorder diagnosis via graph convolutional networks. *Human Brain Mapping*, **2020**, 41, 4997-5014	5.9	7
64	Leveraging Coupled Interaction for Multimodal Alzheimer's Disease Diagnosis. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 186-200	10.3	17
63	Toward an interpretable Alzheimer's disease diagnostic model with regional abnormality representation via deep learning. *NeuroImage*, **2019**, 202, 116113	7.9	11
62	Domain Adaptation with Source Selection for Motor-Imagery based BCI **2019**,		13
61	Multi-scale gradual integration CNN for false positive reduction in pulmonary nodule detection. *Neural Networks*, **2019**, 115, 1-10	9.1	35
60	Semi-Supervised Deep Adversarial Learning for Brain-Computer Interface **2019**,		6
59	Stochastic Imputation and Uncertainty-Aware Attention to EHR for Mortality Prediction **2019**,		9
58	Group sparse reduced rank regression for neuroimaging genetic study. *World Wide Web*, **2019**, 22, 673-688	2.9	0
57	Low-rank dimensionality reduction for multi-modality neurodegenerative disease identification. *World Wide Web*, **2019**, 22, 907-925	2.9	8
56	Modeling regional dynamics in low-frequency fluctuation and its application to Autism spectrum disorder diagnosis. *NeuroImage*, **2019**, 184, 669-686	7.9	9
55	Discriminative self-representation sparse regression for neuroimaging-based alzheimer's disease diagnosis. *Brain Imaging and Behavior*, **2019**, 13, 27-40	4.1	9
54	Deep recurrent spatio-temporal neural network for motor imagery based BCI **2018**,		19
53	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. *Medical Image Analysis*, **2017**, 38, 205-214	15.4	137
52	Deep ensemble learning of sparse regression models for brain disease diagnosis. *Medical Image Analysis*, **2017**, 37, 101-113	15.4	147
51	Deep Learning in Medical Image Analysis. *Annual Review of Biomedical Engineering*, **2017**, 19, 221-248	12	1778
50	Individual Identification Using Cognitive Electroencephalographic Neurodynamics. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 2159-2167	8	14
49	Low-Rank Graph-Regularized Structured Sparse Regression for Identifying Genetic Biomarkers. *IEEE Transactions on Big Data*, **2017**, 3, 405-414	3.2	49
48	Multiple functional networks modeling for autism spectrum disorder diagnosis. *Human Brain Mapping*, **2017**, 38, 5804-5821	5.9	27

47	Region-Wise Stochastic Pattern Modeling for Autism Spectrum Disorder Identification and Temporal Dynamics Analysis. *Lecture Notes in Computer Science*, **2017**, 143-151	0.9	1
46	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 607-18	5	144
45	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. *NeuroImage*, **2016**, 129, 292-307	7.9	163
44	Sparse Multi-Response Tensor Regression for Alzheimer's Disease Study With Multivariate Clinical Assessments. *IEEE Transactions on Medical Imaging*, **2016**, 35, 1927-36	11.7	19
43	Canonical feature selection for joint regression and multi-class identification in Alzheimer's disease diagnosis. *Brain Imaging and Behavior*, **2016**, 10, 818-28	4.1	64
42	Deep sparse multi-task learning for feature selection in Alzheimer's disease diagnosis. *Brain Structure and Function*, **2016**, 221, 2569-87	4	83
41	Structured Sparse Low-Rank Regression Model for Brain-Wide and Genome-Wide Associations. *Lecture Notes in Computer Science*, **2016**, 9900, 344-352	0.9	11
40	Joint Discriminative and Representative Feature Selection for Alzheimer's Disease Diagnosis. *Lecture Notes in Computer Science*, **2016**, 10019, 77-85	0.9	2
39	Deep Ensemble Sparse Regression Network for Alzheimer Disease Diagnosis. *Lecture Notes in Computer Science*, **2016**, 113-121	0.9	13
38	An empirical suggestion for collaborative learning in motor imagery-based BCIs **2016**,		1
37	Motion Influence Map for Unusual Human Activity Detection and Localization in Crowded Scenes. *IEEE Transactions on Circuits and Systems for Video Technology*, **2015**, 25, 1612-1623	6.4	34
36	Multimodal manifold-regularized transfer learning for MCI conversion prediction. *Brain Imaging and Behavior*, **2015**, 9, 913-26	4.1	52
35	Volumetric spatial feature representation for view-invariant human action recognition using a depth camera. *Optical Engineering*, **2015**, 54, 033102	1.1	7
34	A Hybrid of Deep Network and Hidden Markov Model for MCI Identification with Resting-State fMRI. *Lecture Notes in Computer Science*, **2015**, 9349, 573-580	0.9	11
33	Supervised Discriminative Group Sparse Representation for Mild Cognitive Impairment Diagnosis. *Neuroinformatics*, **2015**, 13, 277-95	3.2	37
32	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. *Brain Structure and Function*, **2015**, 220, 841-59	4	313
31	MRI-based intelligence quotient (IQ) estimation with sparse learning. *PLoS ONE*, **2015**, 10, e0117295	3.7	12
30	Combined regression and classification approach for prediction of driver's braking intention **2015**,		1

29	Multi-view Classification for Identification of Alzheimer's Disease. *Lecture Notes in Computer Science*, **2015**, 9352, 255-262	0.9	20
28	Matrix-Similarity Based Loss Function and Feature Selection for Alzheimer's Disease Diagnosis. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, **2014**, 2014, 3089-3096	6	49
27	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. *NeuroImage*, **2014**, 101, 569-82	7.9	536
26	A novel matrix-similarity based loss function for joint regression and classification in AD diagnosis. *NeuroImage*, **2014**, 100, 91-105	7.9	139
25	Predicting BCI subject performance using probabilistic spatio-temporal filters. *PLoS ONE*, **2014**, 9, e87056	3.7	30
24	View-Invariant 3D Action Recognition Using Spatiotemporal Self-Similarities from Depth Camera **2014**,		6
23	Joint Coupled-Feature Representation and Coupled Boosting for AD Diagnosis. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, **2014**, 2014, 2721-2728	6	17
22	Deep learning based imaging data completion for improved brain disease diagnosis. *Lecture Notes in Computer Science*, **2014**, 17, 305-12	0.9	180
21	Multi-modality canonical feature selection for Alzheimer's disease diagnosis. *Lecture Notes in Computer Science*, **2014**, 17, 162-9	0.9	22
20	A novel multi-relation regularization method for regression and classification in AD diagnosis. *Lecture Notes in Computer Science*, **2014**, 17, 401-8	0.9	15
19	Non-homogeneous spatial filter optimization for EEG-based brain-computer interfaces **2013**,		7
18	A novel Bayesian framework for discriminative feature extraction in Brain-Computer Interfaces. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2013**, 35, 286-99	13.3	163
17	Non-homogeneous spatial filter optimization for ElectroEncephaloGram (EEG)-based motor imagery classification. *Neurocomputing*, **2013**, 108, 58-68	5.4	68
16	Crowd Behavior Representation Using Motion Influence Matrix for Anomaly Detection **2013**,		2
15	Person authentication from neural activity of face-specific visual self-representation. *Pattern Recognition*, **2013**, 46, 1159-1169	7.7	75
14	Eeg-based person authentication using face stimuli **2013**,		13
13	Deep learning-based feature representation for AD/MCI classification. *Lecture Notes in Computer Science*, **2013**, 16, 583-90	0.9	197
12	A Bayesian approach for spatio-spectral filter optimization in BCI **2013**,		1

11	Discriminative Group Sparse Representation for Mild Cognitive Impairment Classification. *Lecture Notes in Computer Science*, **2013**, 131-138	0.9	19
10	High-order graph matching based feature selection for Alzheimer's disease identification. *Lecture Notes in Computer Science*, **2013**, 16, 311-8	0.9	22
9	Data-Driven Frequency Bands Selection in EEG-Based Brain-Computer Interface **2011**,		3
8	Subject and class specific frequency bands selection for multiclass motor imagery classification. *International Journal of Imaging Systems and Technology*, **2011**, 21, 123-130	2.5	55
7	A Network of Dynamic Probabilistic Models for Human Interaction Analysis. *IEEE Transactions on Circuits and Systems for Video Technology*, **2011**, 21, 932-945	6.4	23
6	A probabilistic approach to spatio-spectral filters optimization in Brain-Computer Interface **2011**,		4
5	Two-Layer Hidden Markov Models for Multi-class Motor Imagery Classification **2010**,		6
4	Hand gesture recognition based on dynamic Bayesian network framework. *Pattern Recognition*, **2010**, 43, 3059-3072	7.7	132
3	Analyzing human interactions with a network of dynamic probabilistic models **2009**,		3
2	Robust modeling and recognition of hand gestures with dynamic Bayesian network **2008**,		3
1	Recognizing hand gestures using dynamic Bayesian network **2008**,		14