

# Heung-Il Suk

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Deep Learning in Medical Image Analysis. <i>Annual Review of Biomedical Engineering</i> , <b>2017</b> , 19, 221-248	12	1778
81	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. <i>NeuroImage</i> , <b>2014</b> , 101, 569-82	7.9	536
80	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. <i>Brain Structure and Function</i> , <b>2015</b> , 220, 841-59	4	313
79	Deep learning-based feature representation for AD/MCI classification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 583-90	0.9	197
78	Deep learning based imaging data completion for improved brain disease diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 305-12	0.9	180
77	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. <i>NeuroImage</i> , <b>2016</b> , 129, 292-307	7.9	163
76	A novel Bayesian framework for discriminative feature extraction in Brain-Computer Interfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 286-99	13.3	163
75	Deep ensemble learning of sparse regression models for brain disease diagnosis. <i>Medical Image Analysis</i> , <b>2017</b> , 37, 101-113	15.4	147
74	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 607-18	5	144
73	A novel matrix-similarity based loss function for joint regression and classification in AD diagnosis. <i>NeuroImage</i> , <b>2014</b> , 100, 91-105	7.9	139
72	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , <b>2017</b> , 38, 205-214	15.4	137
71	Hand gesture recognition based on dynamic Bayesian network framework. <i>Pattern Recognition</i> , <b>2010</b> , 43, 3059-3072	7.7	132
70	Deep sparse multi-task learning for feature selection in Alzheimer's disease diagnosis. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 2569-87	4	83
69	Person authentication from neural activity of face-specific visual self-representation. <i>Pattern Recognition</i> , <b>2013</b> , 46, 1159-1169	7.7	75
68	Non-homogeneous spatial filter optimization for ElectroEncephaloGram (EEG)-based motor imagery classification. <i>Neurocomputing</i> , <b>2013</b> , 108, 58-68	5.4	68
67	Canonical feature selection for joint regression and multi-class identification in Alzheimer's disease diagnosis. <i>Brain Imaging and Behavior</i> , <b>2016</b> , 10, 818-28	4.1	64
66	Subject and class specific frequency bands selection for multiclass motor imagery classification. <i>International Journal of Imaging Systems and Technology</i> , <b>2011</b> , 21, 123-130	2.5	55

65	Multimodal manifold-regularized transfer learning for MCI conversion prediction. <i>Brain Imaging and Behavior</i> , <b>2015</b> , 9, 913-26	4.1	52
64	Low-Rank Graph-Regularized Structured Sparse Regression for Identifying Genetic Biomarkers. <i>IEEE Transactions on Big Data</i> , <b>2017</b> , 3, 405-414	3.2	49
63	Matrix-Similarity Based Loss Function and Feature Selection for Alzheimer's Disease Diagnosis. <i>Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , <b>2014</b> , 2014, 3089-3096	6	49
62	Supervised Discriminative Group Sparse Representation for Mild Cognitive Impairment Diagnosis. <i>Neuroinformatics</i> , <b>2015</b> , 13, 277-95	3.2	37
61	Multi-scale gradual integration CNN for false positive reduction in pulmonary nodule detection. <i>Neural Networks</i> , <b>2019</b> , 115, 1-10	9.1	35
60	Motion Influence Map for Unusual Human Activity Detection and Localization in Crowded Scenes. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2015</b> , 25, 1612-1623	6.4	34
59	Predicting BCI subject performance using probabilistic spatio-temporal filters. <i>PLoS ONE</i> , <b>2014</b> , 9, e87056	5.7	30
58	Multiple functional networks modeling for autism spectrum disorder diagnosis. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 5804-5821	5.9	27
57	A Network of Dynamic Probabilistic Models for Human Interaction Analysis. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 932-945	6.4	23
56	Multi-modality canonical feature selection for Alzheimer's disease diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 162-9	0.9	22
55	High-order graph matching based feature selection for Alzheimer's disease identification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 311-8	0.9	22
54	Multi-view Classification for Identification of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9352, 255-262	0.9	20
53	Deep recurrent spatio-temporal neural network for motor imagery based BCI <b>2018</b> ,		19
52	Sparse Multi-Response Tensor Regression for Alzheimer's Disease Study With Multivariate Clinical Assessments. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1927-36	11.7	19
51	Discriminative Group Sparse Representation for Mild Cognitive Impairment Classification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 131-138	0.9	19
50	Joint Coupled-Feature Representation and Coupled Boosting for AD Diagnosis. <i>Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , <b>2014</b> , 2014, 2721-2728	6	17
49	Leveraging Coupled Interaction for Multimodal Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 186-200	10.3	17
48	Deep Learning Algorithm for Automated Segmentation and Volume Measurement of the Liver and Spleen Using Portal Venous Phase Computed Tomography Images. <i>Korean Journal of Radiology</i> , <b>2020</b> , 21, 987-997	6.9	16

47	A novel multi-relation regularization method for regression and classification in AD diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 401-8	0.9	15
46	Individual Identification Using Cognitive Electroencephalographic Neurodynamics. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2017</b> , 12, 2159-2167	8	14
45	Recognizing hand gestures using dynamic Bayesian network <b>2008</b> ,		14
44	Domain Adaptation with Source Selection for Motor-Imagery based BCI <b>2019</b> ,		13
43	Eeg-based person authentication using face stimuli <b>2013</b> ,		13
42	Deep Ensemble Sparse Regression Network for Alzheimer's Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 113-121	0.9	13
41	MRI-based intelligence quotient (IQ) estimation with sparse learning. <i>PLoS ONE</i> , <b>2015</b> , 10, e0117295	3.7	12
40	Toward an interpretable Alzheimer's disease diagnostic model with regional abnormality representation via deep learning. <i>NeuroImage</i> , <b>2019</b> , 202, 116113	7.9	11
39	A Hybrid of Deep Network and Hidden Markov Model for MCI Identification with Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9349, 573-580	0.9	11
38	VIGNet: A Deep Convolutional Neural Network for EEG-based Driver Vigilance Estimation <b>2020</b> ,		11
37	Structured Sparse Low-Rank Regression Model for Brain-Wide and Genome-Wide Associations. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9900, 344-352	0.9	11
36	Multi-Scale Neural Network for EEG Representation Learning in BCI. <i>IEEE Computational Intelligence Magazine</i> , <b>2021</b> , 16, 31-45	5.6	10
35	Stochastic Imputation and Uncertainty-Aware Attention to EHR for Mortality Prediction <b>2019</b> ,		9
34	Modeling regional dynamics in low-frequency fluctuation and its application to Autism spectrum disorder diagnosis. <i>NeuroImage</i> , <b>2019</b> , 184, 669-686	7.9	9
33	Discriminative self-representation sparse regression for neuroimaging-based alzheimer's disease diagnosis. <i>Brain Imaging and Behavior</i> , <b>2019</b> , 13, 27-40	4.1	9
32	Low-rank dimensionality reduction for multi-modality neurodegenerative disease identification. <i>World Wide Web</i> , <b>2019</b> , 22, 907-925	2.9	8
31	Volumetric spatial feature representation for view-invariant human action recognition using a depth camera. <i>Optical Engineering</i> , <b>2015</b> , 54, 033102	1.1	7
30	Non-homogeneous spatial filter optimization for EEG-based brain-computer interfaces <b>2013</b> ,		7

29	Identifying resting-state effective connectivity abnormalities in drug-naïve major depressive disorder diagnosis via graph convolutional networks. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 4997-5014	5.9	7
28	Semi-Supervised Deep Adversarial Learning for Brain-Computer Interface <b>2019</b> ,		6
27	View-Invariant 3D Action Recognition Using Spatiotemporal Self-Similarities from Depth Camera <b>2014</b> ,		6
26	Two-Layer Hidden Markov Models for Multi-class Motor Imagery Classification <b>2010</b> ,		6
25	A Novel RL-assisted Deep Learning Framework for Task-informative Signals Selection and Classification for Spontaneous BCIs. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 1-1	11.9	5
24	A Survey on Deep Learning-Based Short/Zero-Calibration Approaches for EEG-Based Brain-Computer Interfaces. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 643386	3.3	5
23	An index based on deep learning-measured spleen volume on CT for the assessment of high-risk varix in B-viral compensated cirrhosis. <i>European Radiology</i> , <b>2021</b> , 31, 3355-3365	8	5
22	Uncertainty-Aware Variational-Recurrent Imputation Network for Clinical Time Series. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	5
21	A probabilistic approach to spatio-spectral filters optimization in Brain-Computer Interface <b>2011</b> ,		4
20	Mutual Information-Driven Subject-Invariant and Class-Relevant Deep Representation Learning in BCI. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	4
19	Data-Driven Frequency Bands Selection in EEG-Based Brain-Computer Interface <b>2011</b> ,		3
18	Analyzing human interactions with a network of dynamic probabilistic models <b>2009</b> ,		3
17	Robust modeling and recognition of hand gestures with dynamic Bayesian network <b>2008</b> ,		3
16	Enriched Representation Learning in Resting-State fMRI for Early MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 397-406	0.9	3
15	Liver-to-Spleen Volume Ratio Automatically Measured on CT Predicts Decompensation in Patients with B Viral Compensated Cirrhosis. <i>Korean Journal of Radiology</i> , <b>2021</b> , 22, 1985-1995	6.9	3
14	Crowd Behavior Representation Using Motion Influence Matrix for Anomaly Detection <b>2013</b> ,		2
13	Joint Discriminative and Representative Feature Selection for Alzheimer's Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 10019, 77-85	0.9	2
12	Uncertainty-Gated Stochastic Sequential Model for EHR Mortality Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 4052-4062	10.3	2

11	A unified framework for personalized regions selection and functional relation modeling for early MCI identification. <i>NeuroImage</i> , <b>2021</b> , 236, 118048	7.9	2
10	Combined regression and classification approach for prediction of driver's braking intention <b>2015</b> ,		1
9	A Bayesian approach for spatio-spectral filter optimization in BCI <b>2013</b> ,		1
8	Region-Wise Stochastic Pattern Modeling for Autism Spectrum Disorder Identification and Temporal Dynamics Analysis. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 143-151	0.9	1
7	An empirical suggestion for collaborative learning in motor imagery-based BCIs <b>2016</b> ,		1
6	Electrophysiological Decoding of Spatial and Color Processing in Human Prefrontal Cortex. <i>NeuroImage</i> , <b>2021</b> , 237, 118165	7.9	1
5	Deep recurrent model for individualized prediction of Alzheimer's disease progression. <i>NeuroImage</i> , <b>2021</b> , 237, 118143	7.9	1
4	Group sparse reduced rank regression for neuroimaging genetic study. <i>World Wide Web</i> , <b>2019</b> , 22, 673-688		0
3	Population-based and Personalized Reference Intervals for Liver and Spleen Volumes in Healthy Individuals and Those with Viral Hepatitis. <i>Radiology</i> , <b>2021</b> , 301, 339-347	20.5	0
2	Inter-regional High-Level Relation Learning from Functional Connectivity via Self-supervision. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 284-293	0.9	0
1	Semi-supervised generative and discriminative adversarial learning for motor imagery-based brain-computer interface.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4587	4.9	0