Bao-Liang Lu

List of Publications by Year in Descending Order

91 papers	3,256 citations	23 h-index	56 g-index
108 ext. papers	4,509 ext. citations	3.6 avg, IF	6.18 L-index

#	Paper	IF	Citations
91	Investigating EEG-based functional connectivity patterns for multimodal emotion recognition.. *Journal of Neural Engineering*, **2022**, 19,	5	11
90	Comparing Recognition Performance and Robustness of Multimodal Deep Learning Models for Multimodal Emotion Recognition. *IEEE Transactions on Cognitive and Developmental Systems*, **2022**, 14, 715-729	3	9
89	Tri-training for Dependency Parsing Domain Adaptation. *ACM Transactions on Asian and Low-Resource Language Information Processing*, **2022**, 21, 1-17	1.1	
88	Efficient Sample and Feature Importance Mining in Semi-supervised EEG Emotion Recognition. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2022**, 1-1	3.5	1
87	Multi-Modal Domain Adaptation Variational Autoencoder for EEG-Based Emotion Recognition. *IEEE/CAA Journal of Automatica Sinica*, **2022**, 1-15	7	0
86	S3LRR: A Unified Model for Joint Discriminative Subspace Identification and Semi-supervised EEG Emotion Recognition. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	1
85	Coupled Projection Transfer Metric Learning for Cross-Session Emotion Recognition from EEG. *Systems*, **2022**, 10, 47	3	1
84	OGSSL: A Semi-Supervised Classification Model Coupled With Optimal Graph Learning for EEG Emotion Recognition.. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2022**, 30, 1288-1297	4.8	1
83	A Cross-subject and Cross-modal Model for Multimodal Emotion Recognition. *Communications in Computer and Information Science*, **2021**, 203-211	0.3	
82	A Multi-Domain Adaptive Graph Convolutional Network for EEG-based Emotion Recognition **2021**,		5
81	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	2
80	Machine learning-based personalized subthalamic biomarkers predict ON-OFF levodopa states in Parkinson patients. *Journal of Neural Engineering*, **2021**, 18,	5	1
79	Discrimination of Decision Confidence Levels from EEG Signals **2021**,		3
78	A Regression Method With Subnetwork Neurons for Vigilance Estimation Using EOG and EEG. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 13, 209-222	3	16
77	When SMILES Smiles, Practicality Judgment and Yield Prediction of Chemical Reaction via Deep Chemical Language Processing. *IEEE Access*, **2021**, 9, 85071-85083	3.5	2
76	Sex Difference in Emotion Recognition under Sleep Deprivation: Evidence from EEG and Eye-tracking. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 6449-6452	0.9	1
75	A Novel Experiment Setting for Cross-subject Emotion Recognition. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 6416-6419	0.9	

74	Discriminating Surprise and Anger from EEG and Eye Movements with a Graph Network **2021**,		1
73	Joint Semi-Supervised Feature Auto-Weighting and Classification Model for EEG-Based Cross-Subject Sleep Quality Evaluation **2020**,		3
72	Data augmentation for enhancing EEG-based emotion recognition with deep generative models. *Journal of Neural Engineering*, **2020**, 17, 056021	5	27
71	Faster Single Model Vigilance Detection Based on Deep Learning. *IEEE Transactions on Cognitive and Developmental Systems*, **2020**, 1-1	3	1
70	Transfer Learning for EEG-Based Brain-Computer Interfaces: A Review of Progress Made Since 2016. *IEEE Transactions on Cognitive and Developmental Systems*, **2020**, 1-1	3	46
69	Emotion Recognition under Sleep Deprivation Using a Multimodal Residual LSTM Network **2020**,		3
68	Multimodal Vigilance Estimation Using Deep Learning. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	4
67	Vigilance Estimation Using a Wearable EOG Device in Real Driving Environment. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 170-184	6.1	30
66	Identifying Functional Brain Connectivity Patterns for EEG-Based Emotion Recognition **2019**,		17
65	Classification of Five Emotions from EEG and Eye Movement Signals: Complementary Representation Properties **2019**,		13
64	A GAN-Based Data Augmentation Method for Multimodal Emotion Recognition. *Lecture Notes in Computer Science*, **2019**, 141-150	0.9	6
63	Emotion Recognition using Multimodal Residual LSTM Network **2019**,		31
62	EmotionMeter: A Multimodal Framework for Recognizing Human Emotions. *IEEE Transactions on Cybernetics*, **2019**, 49, 1110-1122	10.2	198
61	. *IEEE Transactions on Affective Computing*, **2019**, 10, 417-429	5.7	237
60	. *IEEE Transactions on Cognitive and Developmental Systems*, **2018**, 10, 408-419	3	68
59	Multimodal Vigilance Estimation with Adversarial Domain Adaptation Networks **2018**,		9
58	EEG Data Augmentation for Emotion Recognition Using a Conditional Wasserstein GAN. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 2535-2538	0.9	69
57	Online Depth Image-Based Object Tracking with Sparse Representation and Object Detection. *Neural Processing Letters*, **2017**, 45, 745-758	2.4	5

56	Robust structured sparse representation via half-quadratic optimization for face recognition. *Multimedia Tools and Applications*, **2017**, 76, 8859-8880	2.5	9
55	A multimodal approach to estimating vigilance using EEG and forehead EOG. *Journal of Neural Engineering*, **2017**, 14, 026017	5	109
54	Attention evaluation with eye tracking glasses for EEG-based emotion recognition **2017**,		3
53	An alpha wave pattern from attenuation to disappearance for predicting the entry into sleep during simulated driving **2017**,		2
52	Detecting driving fatigue with multimodal deep learning **2017**,		13
51	EEG-based emotion recognition using domain adaptation network **2017**,		13
50	Detecting driver sleepiness from EEG alpha wave during daytime driving **2017**,		5
49	sEMG Sensor Using Polypyrrole-Coated Nonwoven Fabric Sheet for Practical Control of Prosthetic Hand. *Frontiers in Neuroscience*, **2017**, 11, 33	5.1	21
48	Emotion Annotation Using Hierarchical Aligned Cluster Analysis. *Lecture Notes in Computer Science*, **2017**, 572-580	0.9	
47	Identifying Gender Differences in Multimodal Emotion Recognition Using Bimodal Deep AutoEncoder. *Lecture Notes in Computer Science*, **2017**, 533-542	0.9	1
46	Measuring sleep quality from EEG with machine learning approaches **2016**,		11
45	Driving fatigue detection with fusion of EEG and forehead EOG **2016**,		3
44	Discriminative manifold extreme learning machine and applications to image and EEG signal classification. *Neurocomputing*, **2016**, 174, 265-277	5.4	34
43	Continuous Vigilance Estimation Using LSTM Neural Networks. *Lecture Notes in Computer Science*, **2016**, 530-537	0.9	10
42	Graph Based Semi-Supervised Learning via Structure Preserving Low-Rank Representation. *Neural Processing Letters*, **2015**, 41, 389-406	2.4	10
41	A novel approach to driving fatigue detection using forehead EOG **2015**,		30
40	Evaluating driving fatigue detection algorithms using eye tracking glasses **2015**,		17
39	Discriminative graph regularized extreme learning machine and its application to face recognition. *Neurocomputing*, **2015**, 149, 340-353	5.4	121

38	A highly usable and customizable sEMG sensor for prosthetic limb control using polypyrrole-coated nonwoven fabric sheet **2015**,		3
37	An EOG-based Vigilance Estimation Method Applied for Driver Fatigue Detection. *Neuroscience and Biomedical Engineering*, **2015**, 2, 41-51		20
36	Investigating Critical Frequency Bands and Channels for EEG-Based Emotion Recognition with Deep Neural Networks. *IEEE Transactions on Autonomous Mental Development*, **2015**, 7, 162-175		583
35	Transfer components between subjects for EEG-based emotion recognition **2015**,		25
34	Revealing critical channels and frequency bands for emotion recognition from EEG with deep belief network **2015**,		18
33	Enhanced low-rank representation via sparse manifold adaption for semi-supervised learning. *Neural Networks*, **2015**, 65, 1-17	9.1	35
32	Recognizing slow eye movement for driver fatigue detection with machine learning approach **2014**,		7
31	EOG-based drowsiness detection using convolutional neural networks **2014**,		31
30	EEG-based emotion recognition using discriminative graph regularized extreme learning machine **2014**,		14
29	EEG-based emotion classification using deep belief networks **2014**,		132
28	Emotional state classification from EEG data using machine learning approach. *Neurocomputing*, **2014**, 129, 94-106	5.4	381
27	A novel MEMS elastic-based dry electrode for electroencephalography measurement. *Microsystem Technologies*, **2014**, 20, 1125-1129	1.7	5
26	EEG-based vigilance estimation using extreme learning machines. *Neurocomputing*, **2013**, 102, 135-143	5.4	124
25	**2013**,		245
24	Differential entropy feature for EEG-based vigilance estimation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 6627-30	0.9	28
23	Parallel learning of large-scale multi-label classification problems with min-max modular LIBLINEAR **2012**,		2
22	Multi-view gender classification using symmetry of facial images. *Neural Computing and Applications*, **2012**, 21, 661-669	4.8	10
21	Incorporating cellular sorting structure for better prediction of protein subcellular locations. *Journal of Experimental and Theoretical Artificial Intelligence*, **2011**, 23, 79-95	2	2

20	EEG-based emotion recognition during watching movies **2011**,		166
19	VIGILANCE ANALYSIS BASED ON EEG SIGNALS: SEEKING FOR SUITABLE FEATURES. *Journal of Biological Systems*, **2010**, 18, 81-99	1.6	2
18	Incorporating prior knowledge into learning by dividing training data. *Frontiers of Computer Science*, **2009**, 3, 109-122		8
17	A PARALLEL AND MODULAR PATTERN CLASSIFICATION FRAMEWORK FOR LARGE-SCALE PROBLEMS **2009**, 725-746		2
16	Large-scale patent classification with min-max modular support vector machines **2008**,		1
15	Multi-view gender classification based on local Gabor binary mapping pattern and support vector machines **2008**,		6
14	An empirical comparison of min-max-modular k-NN with different voting methods to large-scale text categorization. *Soft Computing*, **2008**, 12, 647-655	3.5	2
13	Person-Specific SIFT Features for Face Recognition **2007**,		82
12	Semi-Supervised Clustering for Vigilance Analysis Based on EEG. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		13
11	Learning Concepts from Large-Scale Data Sets by Pairwise Coupling with Probabilistic Outputs. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		1
10	Learning Imbalanced Data Sets with a Min-Max Modular Support Vector Machine. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		1
9	CLASSIFICATION OF PROTEIN SEQUENCES BASED ON WORD SEGMENTATION METHODS **2007**,		5
8	A Hybrid Method of Unsupervised Feature Selection Based on Ranking **2006**,		3
7	Efficient Classification of Multi-label and Imbalanced Data using Min-Max Modular Classifiers **2006**,		22
6	A Comparative Study on Feature Extraction from Protein Sequences for Subcellular Localization Prediction **2006**,		5
5	Extracting Features from Protein Sequences Using Chinese Segmentation Techniques for Subcellular Localization **2005**,		5
4	Massively parallel classification of single-trial EEG signals using a min-max modular neural network. *IEEE Transactions on Biomedical Engineering*, **2004**, 51, 551-8	5	14
3	Efficient Part-of-Speech Tagging with a Min-Max Modular Neural-Network Model. *Applied Intelligence*, **2003**, 19, 65-81	4.9	8

2	Converting general nonlinear programming problems into separable programming problems with feedforward neural networks. *Neural Networks*, **2003**, 16, 1059-74	9.1	4
1	Efficient Classification of Multi-label and Imbalanced Data using Min-Max Modular Classifiers		2