Ranganatha Sitaram

List of Publications by Citations

61 papers	4,431 citations	30 h-index	66 g-index
71 ext. papers	5,333 ext. citations	5 avg, IF	5.24 L-index

#	Paper	IF	Citations
61	Closed-loop brain training: the science of neurofeedback. *Nature Reviews Neuroscience*, **2017**, 18, 86-100	13.5	485
60	Temporal classification of multichannel near-infrared spectroscopy signals of motor imagery for developing a brain-computer interface. *NeuroImage*, **2007**, 34, 1416-27	7.9	444
59	Real-time fMRI neurofeedback: progress and challenges. *NeuroImage*, **2013**, 76, 386-99	7.9	305
58	Regulation of anterior insular cortex activity using real-time fMRI. *NeuroImage*, **2007**, 35, 1238-46	7.9	275
57	Real-time functional magnetic resonance imaging: methods and applications. *Magnetic Resonance Imaging*, **2007**, 25, 989-1003	3.3	202
56	Acquired self-control of insula cortex modulates emotion recognition and brain network connectivity in schizophrenia. *Human Brain Mapping*, **2013**, 34, 200-12	5.9	197
55	Volitional control of anterior insula activity modulates the response to aversive stimuli. A real-time functional magnetic resonance imaging study. *Biological Psychiatry*, **2010**, 68, 425-32	7.9	194
54	Self-regulation of regional cortical activity using real-time fMRI: the right inferior frontal gyrus and linguistic processing. *Human Brain Mapping*, **2009**, 30, 1605-14	5.9	183
53	Resting state changes in functional connectivity correlate with movement recovery for BCI and robot-assisted upper-extremity training after stroke. *Neurorehabilitation and Neural Repair*, **2013**, 27, 53-62	4.7	176
52	Learned regulation of brain metabolism. *Trends in Cognitive Sciences*, **2013**, 17, 295-302	14	151
51	Real-time support vector classification and feedback of multiple emotional brain states. *NeuroImage*, **2011**, 56, 753-65	7.9	139
50	Hemodynamic brain-computer interfaces for communication and rehabilitation. *Neural Networks*, **2009**, 22, 1320-8	9.1	128
49	Real-time fMRI brain computer interfaces: self-regulation of single brain regions to networks. *Biological Psychology*, **2014**, 95, 4-20	3.2	116
48	FMRI brain-computer interface: a tool for neuroscientific research and treatment. *Computational Intelligence and Neuroscience*, **2007**, 2007, 25487	3	116
47	Acquired control of ventral premotor cortex activity by feedback training: an exploratory real-time FMRI and TMS study. *Neurorehabilitation and Neural Repair*, **2012**, 26, 256-65	4.7	107
46	Real-time fMRI: a tool for local brain regulation. *Neuroscientist*, **2012**, 18, 487-501	7.6	94
45	Using real-time fMRI to learn voluntary regulation of the anterior insula in the presence of threat-related stimuli. *Social Cognitive and Affective Neuroscience*, **2012**, 7, 623-34	4	94

44	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). *Brain*, **2020**, 143, 1674-1685	11.2	93
43	Improving Motor Corticothalamic Communication After Stroke Using Real-Time fMRI Connectivity-Based Neurofeedback. *Neurorehabilitation and Neural Repair*, **2016**, 30, 671-5	4.7	67
42	Neurofeedback-mediated self-regulation of the dopaminergic midbrain. *NeuroImage*, **2013**, 83, 817-25	7.9	59
41	Reorganization of functional and effective connectivity during real-time fMRI-BCI modulation of prosody processing. *Brain and Language*, **2011**, 117, 123-32	2.9	59
40	Lower Limb Movement Preparation in Chronic Stroke: A Pilot Study Toward an fNIRS-BCI for Gait Rehabilitation. *Neurorehabilitation and Neural Repair*, **2014**, 28, 564-75	4.7	57
39	fMRI Brain-Computer Interfaces. *IEEE Signal Processing Magazine*, **2008**, 25, 95-106	9.4	57
38	Detection of cerebral reorganization induced by real-time fMRI feedback training of insula activation: a multivariate investigation. *Neurorehabilitation and Neural Repair*, **2011**, 25, 259-67	4.7	50
37	How feedback, motor imagery, and reward influence brain self-regulation using real-time fMRI. *Human Brain Mapping*, **2016**, 37, 3153-71	5.9	48
36	Abnormal Neural Connectivity in Schizophrenia and fMRI-Brain-Computer Interface as a Potential Therapeutic Approach. *Frontiers in Psychiatry*, **2013**, 4, 17	5	44
35	Characterization of relapsing-remitting multiple sclerosis patients using support vector machine classifications of functional and diffusion MRI data. *NeuroImage: Clinical*, **2018**, 20, 724-730	5.3	39
34	Volitional control of the anterior insula in criminal psychopaths using real-time fMRI neurofeedback: a pilot study. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 344	3.5	38
33	Quantifying the link between anatomical connectivity, gray matter volume and regional cerebral blood flow: an integrative MRI study. *PLoS ONE*, **2011**, 6, e14801	3.7	34
32	Neural loss aversion differences between depression patients and healthy individuals: A functional MRI investigation. *Neuroradiology Journal*, **2015**, 28, 97-105	2	29
31	Ensemble Classification of Alzheimer's Disease and Mild Cognitive Impairment Based on Complex Graph Measures from Diffusion Tensor Images. *Frontiers in Neuroscience*, **2017**, 11, 56	5.1	28
30	A subject-independent pattern-based Brain-Computer Interface. *Frontiers in Behavioral Neuroscience*, **2015**, 9, 269	3.5	23
29	Volitional control of neuromagnetic coherence. *Frontiers in Neuroscience*, **2012**, 6, 189	5.1	23
28	Self-Regulation of Anterior Insula with Real-Time fMRI and Its Behavioral Effects in Obsessive-Compulsive Disorder: A Feasibility Study. *PLoS ONE*, **2015**, 10, e0135872	3.7	22
27	Effective functional mapping of fMRI data with support-vector machines. *Human Brain Mapping*, **2010**, 31, 1502-11	5.9	21

26	A toolbox for real-time subject-independent and subject-dependent classification of brain states from fMRI signals. *Frontiers in Neuroscience*, **2013**, 7, 170	5.1	19
25	Toward a brain-computer interface for Alzheimer's disease patients by combining classical conditioning and brain state classification. *Journal of Alzheimer's Disease*, **2012**, 31 Suppl 3, S211-20	4.3	19
24	Real-Time fMRI in Neuroscience Research and Its Use in Studying the Aging Brain. *Frontiers in Aging Neuroscience*, **2016**, 8, 239	5.3	15
23	Simultaneous epidural functional near-infrared spectroscopy and cortical electrophysiology as a tool for studying local neurovascular coupling in primates. *NeuroImage*, **2015**, 120, 394-9	7.9	13
22	Functional Connectivity of Language Regions of Stroke Patients with Expressive Aphasia During Real-Time Functional Magnetic Resonance Imaging Based Neurofeedback. *Brain Connectivity*, **2019**, 9, 613-626	2.7	11
21	Learned control of inter-hemispheric connectivity: Effects on bimanual motor performance. *Human Brain Mapping*, **2017**, 38, 4353-4369	5.9	11
20	Insula and inferior frontal triangularis activations distinguish between conditioned brain responses using emotional sounds for basic BCI communication. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 247	3.5	10
19	Real-Time Subject-Independent Pattern Classification of Overt and Covert Movements from fNIRS Signals. *PLoS ONE*, **2016**, 11, e0159959	3.7	10
18	Fractional Anisotropy changes in Parahippocampal Cingulum due to Alzheimer's Disease. *Scientific Reports*, **2020**, 10, 2660	4.9	9
17	Brain-computer interfaces for neurorehabilitation. *Critical Reviews in Biomedical Engineering*, **2013**, 41, 269-79	1.1	9
16	Involvement of top-down networks in the perception of facial emotions: A magnetoencephalographic investigation. *NeuroImage*, **2020**, 222, 117075	7.9	7
15	Differences in hemodynamic activations between motor imagery and upper limb FES with NIRS. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 4728-31	0.9	7
14	Self-regulation of language areas using real-time functional MRI in stroke patients with expressive aphasia. *Brain Imaging and Behavior*, **2020**, 14, 1714-1730	4.1	7
13	Volitional regulation of the supplementary motor area with fMRI-BCI neurofeedback in Parkinson's disease: A pilot study **2013**,		6
12	Development of a Binary fMRI-BCI for Alzheimer Patients: A Semantic Conditioning Paradigm Using Affective Unconditioned Stimuli **2013**,		5
11	Real-Time Regulation and Detection of Brain States from fMRI Signals **2011**, 227-438		5
10	Brain-Machine Interface Induced Morpho-Functional Remodeling of the Neural Motor System in Severe Chronic Stroke. *Neurotherapeutics*, **2020**, 17, 635-650	6.4	5
9	Self-Regulation of the Fusiform Face Area in Autism Spectrum: A Feasibility Study With Real-Time fMRI Neurofeedback. *Frontiers in Human Neuroscience*, **2019**, 13, 446	3.3	5

List of Publications

8	Flagrant Misconduct of Reviewers and Editor: A Case Study. *Science and Engineering Ethics*, **2015**, 21, 829-35	3.1	4
7	BCI Therapeutic Applications for Improving Brain Function **2012**, 352-362		4
6	Multilevel diffusion tensor imaging classification technique for characterizing neurobehavioral disorders. *Brain Imaging and Behavior*, **2020**, 14, 641-652	4.1	3
5	BCIs That Use Brain Metabolic Signals **2012**, 302-314		2
4	LEARNED CONTROL OF INSULAR ACTIVITY USING fMRI BRAIN COMPUTER INTERFACE IN SCHIZOPHRENIA. *Schizophrenia Research*, **2008**, 102, 92	3.6	2
3	Volitional Control of Neural Connectivity. *Biosystems and Biorobotics*, **2014**, 63-74	0.2	2
2	Semi-Automated and Direct Localization and Labeling of EEG Electrodes Using MR Structural Images for Simultaneous fMRI-EEG. *Frontiers in Neuroscience*, **2020**, 14, 558981	5.1	1
1	Four methods of brain pattern analyses of fMRI signals associated with wrist extension versus wrist flexion studied for potential use in future motor learning BCI. *PLoS ONE*, **2021**, 16, e0254338	3.7	0