

Kurtulus Izzetoglu

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

3,031
citations

361413

20
h-index

182427

51
g-index

88
all docs

88
docs citations

88
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical brain monitoring for operator training and mental workload assessment. <i>NeuroImage</i> , 2012, 59, 36-47.	4.2	526
2	fNIRS Study of Walking and Walking While Talking in Young and Old Individuals. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 879-887.	3.6	337
3	Functional near-infrared spectroscopy. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2006, 25, 54-62.	0.8	250
4	Continuous monitoring of brain dynamics with functional near infrared spectroscopy as a tool for neuroergonomic research: empirical examples and a technological development. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 871.	2.0	211
5	Functional near-infrared neuroimaging. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2005, 13, 153-159.	4.9	207
6	Functional Optical Brain Imaging Using Near-Infrared During Cognitive Tasks. <i>International Journal of Human-Computer Interaction</i> , 2004, 17, 211-227.	4.8	187
7	Using MazeSuite and Functional Near Infrared Spectroscopy to Study Learning in Spatial Navigation. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	153
8	Functional brain imaging using near-infrared technology. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2007, 26, 38-46.	0.8	143
9	Registering fNIR Data to Brain Surface Image using MRI templates. , 2006, 2006, 2671-4.		90
10	Differential time course and intensity of PFC activation for men and women in response to emotional stimuli: A functional near-infrared spectroscopy (fNIRS) study. <i>Neuroscience Letters</i> , 2006, 403, 90-95.	2.1	67
11	THE EVOLUTION OF FIELD DEPLOYABLE fNIR SPECTROSCOPY FROM BENCH TO CLINICAL SETTINGS. <i>Journal of Innovative Optical Health Sciences</i> , 2011, 04, 239-250.	1.0	55
12	Cognitive Workload and Learning Assessment During the Implementation of a Next-Generation Air Traffic Control Technology Using Functional Near-Infrared Spectroscopy. <i>IEEE Transactions on Human-Machine Systems</i> , 2014, 44, 429-440.	3.5	53
13	Monitoring expertise development during simulated UAV piloting tasks using optical brain imaging. , 2012, , .		42
14	Implementation of fNIRS for Monitoring Levels of Expertise and Mental Workload. <i>Lecture Notes in Computer Science</i> , 2011, , 13-22.	1.3	41
15	Does dorsolateral prefrontal cortex (DLPFC) activation return to baseline when sexual stimuli cease?. <i>Neuroscience Letters</i> , 2007, 416, 55-60.	2.1	37
16	A lasting post-stimulus activation on dorsolateral prefrontal cortex is produced when processing valence and arousal in visual affective stimuli. <i>Neuroscience Letters</i> , 2007, 422, 147-152.	2.1	35
17	Optical Brain Imaging to Enhance UAV Operator Training, Evaluation, and Interface Development. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011, 61, 423-443.	3.4	35
18	Early diagnosis of traumatic intracranial hematomas. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	30

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19	Cognitive Workload Assessment of Air Traffic Controllers Using Optical Brain Imaging Sensors. <i>Advances in Human Factors and Ergonomics Series</i> , 2010, , 21-31.	0.2	30
20	Efficient learning produces spontaneous neural repetition suppression in prefrontal cortex. <i>Behavioural Brain Research</i> , 2010, 208, 502-508.	2.2	27
21	Molecular concentration of deoxyHb in human prefrontal cortex predicts the emergence and suppression of consciousness. <i>NeuroImage</i> , 2014, 85, 616-625.	4.2	27
22	Performance Monitoring via Functional Near Infrared Spectroscopy for Virtual Reality Based Basic Life Support Training. <i>Frontiers in Neuroscience</i> , 2019, 13, 1336.	2.8	25
23	The Use of Functional Near-Infrared Spectroscopy in Neuroergonomics. , 2019, , 17-25.		22
24	Near-Infrared Spectroscopy for the Evaluation of Anesthetic Depth. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	21
25	UAV Operators Workload Assessment by Optical Brain Imaging Technology (fNIR). , 2015, , 2475-2500.		21
26	Frontal lobe role in simple arithmetic calculations: An fNIR study. <i>Neuroscience Letters</i> , 2012, 510, 43-47.	2.1	20
27	Investigation of optical neuro-monitoring technique for detection of maintenance and emergence states during general anesthesia. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 147-163.	1.6	19
28	Using Brain Activity to Predict Task Performance and Operator Efficiency. <i>Lecture Notes in Computer Science</i> , 2012, , 147-155.	1.3	18
29	Functional near-infrared spectroscopy for the measurement of propofol effects in conscious sedation during outpatient elective colonoscopy. <i>NeuroImage</i> , 2014, 85, 626-636.	4.2	15
30	Functional near-infrared neuroimaging. , 2004, 2004, 5333-6.		12
31	Single-Trial Recognition of Video Gamer's Expertise from Brain Haemodynamic and Facial Emotion Responses. <i>Brain Sciences</i> , 2021, 11, 106.	2.3	12
32	Brain in the Loop: Assessing Learning Using fNIR in Cognitive and Motor Tasks. <i>Lecture Notes in Computer Science</i> , 2011, , 240-249.	1.3	12
33	Estimation of Cognitive Workload during Simulated Air Traffic Control Using Optical Brain Imaging Sensors. <i>Lecture Notes in Computer Science</i> , 2011, , 549-558.	1.3	12
34	Evaluation of fNIRS signal components elicited by cognitive and hypercapnic stimuli. <i>Scientific Reports</i> , 2021, 11, 23457.	3.3	12
35	A Functional Near-Infrared Spectroscopy Study of Lexical Decision Task Supports the Dual Route Model and the Phonological Deficit Theory of Dyslexia. <i>Journal of Learning Disabilities</i> , 2014, 47, 279-288.	2.2	11
36	Investigation of data-driven optical neuromonitoring approach during general anesthesia with sevoflurane. <i>Neurophotonics</i> , 2017, 4, 1.	3.3	11

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37	Human Performance Assessment: Evaluation of Wearable Sensors for Monitoring Brain Activity. , 2019, , 163-180.		11
38	Bridging Brain and Educational Sciences: An Optical Brain Imaging Study of Visuospatial Reasoning. Procedia, Social and Behavioral Sciences, 2011, 29, 300-309.	0.5	10
39	Functional nearâ€infrared spectroscopy to assess pain in neonatal circumcisions. Paediatric Anaesthesia, 2022, 32, 404-412.	1.1	9
40	UAV Operator mental workload - A neurophysiological comparison of mental workload and vigilance. , 2017, , .		8
41	The Effect of Anthropomorphization and Gender of a Robot on Human-Robot Interactions. Advances in Intelligent Systems and Computing, 2020, , 357-362.	0.6	8
42	Applications of Functional Near Infrared Imaging: Case Study on UAV Ground Controller. Lecture Notes in Computer Science, 2011, , 608-617.	1.3	8
43	An automated intelligent diagnostic system for the interpretation of umbilical artery Doppler velocimetry. European Journal of Radiology, 1996, 23, 162-167.	2.6	7
44	Functional brain monitoring via NIR based optical spectroscopy. , 0, , .		7
45	A Working Memory Deficit among Dyslexic Readers with No Phonological Impairment as Measured Using the N-Back Task: An fNIR Study. PLoS ONE, 2012, 7, e46527.	2.5	7
46	Studying Brain Activation during Skill Acquisition via Robot-Assisted Surgery Training. Brain Sciences, 2021, 11, 937.	2.3	7
47	Cognitive Performance Assessment of UAS Sensor Operators via Neurophysiological Measures. Frontiers in Human Neuroscience, 0, 12, .	2.0	7
48	Using Functional near Infrared Spectroscopy to Assess Cognitive Performance of UAV Sensor Operators during Route Scanning. , 2018, , .		7
49	Investigation of Functional Near Infrared Spectroscopy in Evaluation of Pilot Expertise Acquisition. Lecture Notes in Computer Science, 2015, , 232-243.	1.3	6
50	Multilayer, Dynamic, Mixed Solid/Liquid Human Head Models for the Evaluation of Near Infrared Spectroscopy Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8441-8451.	4.7	6
51	Multimodal Analysis Using Neuroimaging and Eye Movements to Assess Cognitive Workload. Lecture Notes in Computer Science, 2020, , 50-63.	1.3	6
52	Functional Near-Infrared Spectroscopy in Addiction Treatment: Preliminary Evidence as a Biomarker of Treatment Response. Lecture Notes in Computer Science, 2013, , 250-258.	1.3	6
53	Human Performance Assessment Study in Aviation Using Functional Near Infrared Spectroscopy. Lecture Notes in Computer Science, 2013, , 433-442.	1.3	6
54	Individual differences in skill acquisition and transfer assessed by dual task training performance and brain activity. Brain Informatics, 2022, 9, 9.	3.0	6

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55	<title>Motion artifact removal in fNIR spectroscopy for real-world applications</title>. , 2004, 5588, 224.		5
56	Examining Mental Workload in a Spatial Navigation Transfer Game via Functional near Infrared Spectroscopy. Brain Sciences, 2021, 11, 45.	2.3	5
57	Brain Activity of Young and Adult Hebrew Speakers during Lexical Decision Task: fNIR Application to Language. Lecture Notes in Computer Science, 2011, , 231-239.	1.3	5
58	Brain in the Loop Learning Using Functional Near Infrared Spectroscopy. Lecture Notes in Computer Science, 2013, , 381-389.	1.3	5
59	Optical Brain Imaging to Enhance UAV Operator Training, Evaluation, and Interface Development. , 2010, , 423-443.		5
60	Treatment Status Predicts Differential Prefrontal Cortical Responses to Alcohol and Natural Reinforcer Cues among Alcohol Dependent Individuals. Lecture Notes in Computer Science, 2012, , 183-191.	1.3	4
61	Assessing Variable Levels of Delegated Control “ A Novel Measure of Trust. Lecture Notes in Computer Science, 2020, , 202-215.	1.3	4
62	Cognitive Workload Impacts of Simulated Visibility Changes During Search and Surveillance Tasks Quantified by Functional Near Infrared Spectroscopy. IEEE Transactions on Human-Machine Systems, 2022, 52, 658-667.	3.5	4
63	Microwave Photonics applied to fNIR based biomedical imaging?. , 2009, , .		2
64	An indoor study to evaluate a mixed-reality interface for unmanned aerial vehicle operations in near earth environments. , 2010, , .		2
65	Functional brain activity monitoring during Unmanned Aerial Vehicle coordination. , 2012, , .		2
66	Is Functional Near Infrared Spectroscopy (fNIRS) Appropriate for your Research?. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 188-190.	0.3	2
67	Individual Differences in fNIRS Measures of Cognitive Workload During a UAS Mission. Lecture Notes in Computer Science, 2021, , 49-62.	1.3	2
68	Construction of Air Traffic Controller’s Decision Network Using Error-Related Potential. Lecture Notes in Computer Science, 2019, , 384-393.	1.3	2
69	Predicting Audience Preferences for Television Advertisements Using Functional Brain Imaging. , 2018, , 265-266.		1
70	Assessing Correlation Between Virtual Reality Based Serious Gaming Performance and Cognitive Workload Changes via Functional Near Infrared Spectroscopy. Lecture Notes in Computer Science, 2019, , 375-383.	1.3	1
71	Towards Gamers’s Experience Level Decoding with Optical Brain Imaging. , 2019, , .		1
72	Cognitive Workload Quantified by Physiological Sensors in Realistic Immersive Settings. Lecture Notes in Computer Science, 2021, , 119-133.	1.3	1

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73	Testing a Multi-wavelength, Multi-distance fNIR Probe as a Measure of Cerebral Oxygen Saturation for Use in a Feedback Titrated Oxygen Delivery System. , 2013, , .		0
74	Using Neural Correlates for Enhancing Customer Experience Through Effective Visual Price Placement. , 2018, , 285-286.		0
75	Neural Correlates of Math Anxiety and Ability on Price Promotions and Consumer Decisions. Frontiers in Human Neuroscience, 0, 12, .	2.0	0
76	Audience preference prediction for commercials using fNIRS. Frontiers in Human Neuroscience, 0, 12, .	2.0	0
77	Neural Correlates of Math Anxiety of Consumer Choices on Price Promotions. Advances in Intelligent Systems and Computing, 2019, , 152-160.	0.6	0
78	A Neuroimaging Approach to Evaluate Choices and Compare Performance of Tower Air Traffic Controllers During Missed Approaches. Lecture Notes in Computer Science, 2020, , 107-117.	1.3	0
79	Registering fNIR Data to Brain Surface Image using MRI templates. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0