# Kurtulus Izzetoglu

List of Publications by Year
in descending order

| 79 papers | 3,031 citations | 361413<br>20 h-index | 182427<br>51 g-index |
|---|---|---|---|
| 88 all docs | 88 docs citations | 88 times ranked | 2329 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Functional near‑infrared spectroscopy to assess pain in neonatal circumcisions. Paediatric Anaesthesia, 2022, 32, 404-412. | 1.1 | 9 |
| 2 | 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 |
| 3 | Individual differences in skill acquisition and transfer assessed by dual task training performance and brain activity. Brain Informatics, 2022, 9, 9. | 3.0 | 6 |
| 4 | Individual Differences in fNIRS Measures of Cognitive Workload During a UAS Mission. Lecture Notes in Computer Science, 2021, , 49-62. | 1.3 | 2 |
| 5 | Cognitive Workload Quantified by Physiological Sensors in Realistic Immersive Settings. Lecture Notes in Computer Science, 2021, , 119-133. | 1.3 | 1 |
| 6 | Single-Trial Recognition of Video Gamer's Expertise from Brain Haemodynamic and Facial Emotion Responses. Brain Sciences, 2021, 11, 106. | 2.3 | 12 |
| 7 | Studying Brain Activation during Skill Acquisition via Robot-Assisted Surgery Training. Brain Sciences, 2021, 11, 937. | 2.3 | 7 |
| 8 | Examining Mental Workload in a Spatial Navigation Transfer Game via Functional near Infrared Spectroscopy. Brain Sciences, 2021, 11, 45. | 2.3 | 5 |
| 9 | Evaluation of fNIRS signal components elicited by cognitive and hypercapnic stimuli. Scientific Reports, 2021, 11, 23457. | 3.3 | 12 |
| 10 | 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 |
| 11 | 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 |
| 12 | Multimodal Analysis Using Neuroimaging and Eye Movements to Assess Cognitive Workload. Lecture Notes in Computer Science, 2020, , 50-63. | 1.3 | 6 |
| 13 | Assessing Variable Levels of Delegated Control â€" A Novel Measure of Trust. Lecture Notes in Computer Science, 2020, , 202-215. | 1.3 | 4 |
| 14 | 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 |
| 15 | 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 |
| 16 | Towards Gamers' Experience Level Decoding with Optical Brain Imaging. , 2019, , . | | 1 |
| 17 | Performance Monitoring via Functional Near Infrared Spectroscopy for Virtual Reality Based Basic Life Support Training. Frontiers in Neuroscience, 2019, 13, 1336. | 2.8 | 25 |
| 18 | The Use of Functional Near-Infrared Spectroscopy in Neuroergonomics. , 2019, , 17-25. | | 22 |

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| 19 | Early diagnosis of traumatic intracranial hematomas. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 30 |
| 20 | Human Performance Assessment: Evaluation of Wearable Sensors for Monitoring Brain Activity. , 2019, , 163-180. | | 11 |
| 21 | Neural Correlates of Math Anxiety of Consumer Choices on Price Promotions. Advances in Intelligent Systems and Computing, 2019, , 152-160. | 0.6 | 0 |
| 22 | Construction of Air Traffic Controllerâ€™s Decision Network Using Error-Related Potential. Lecture Notes in Computer Science, 2019, , 384-393. | 1.3 | 2 |
| 23 | Investigation of optical neuro-monitoring technique for detection of maintenance and emergence states during general anesthesia. Journal of Clinical Monitoring and Computing, 2018, 32, 147-163. | 1.6 | 19 |
| 24 | Using Neural Correlates for Enhancing Customer Experience Through Effective Visual Price Placement. , 2018, , 285-286. | | 0 |
| 25 | Predicting Audience Preferences for Television Advertisements Using Functional Brain Imaging. , 2018, , 265-266. | | 1 |
| 26 | Using Functional near Infrared Spectroscopy to Assess Cognitive Performance of UAV Sensor Operators during Route Scanning. , 2018, , . | | 7 |
| 27 | UAV Operator mental workload - A neurophysiological comparison of mental workload and vigilance. , 2017, , . | | 8 |
| 28 | Investigation of data-driven optical neuromonitoring approach during general anesthesia with sevoflurane. Neurophotonics, 2017, 4, 1. | 3.3 | 11 |
| 29 | 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 |
| 30 | Near-Infrared Spectroscopy for the Evaluation of Anesthetic Depth. BioMed Research International, 2015, 2015, 1-11. | 1.9 | 21 |
| 31 | Investigation of Functional Near Infrared Spectroscopy in Evaluation of Pilot Expertise Acquisition. Lecture Notes in Computer Science, 2015, , 232-243. | 1.3 | 6 |
| 32 | UAV Operators Workload Assessment by Optical Brain Imaging Technology (fNIR). , 2015, , 2475-2500. | | 21 |
| 33 | Cognitive Workload and Learning Assessment During the Implementation of a Next-Generation Air Traffic Control Technology Using Functional Near-Infrared Spectroscopy. IEEE Transactions on Human-Machine Systems, 2014, 44, 429-440. | 3.5 | 53 |
| 34 | A Functional Near-Infrared Spectroscopy Study of Lexical Decision Task Supports the Dual Route Model and the Phonological Deficit Theory of Dyslexia. Journal of Learning Disabilities, 2014, 47, 279-288. | 2.2 | 11 |
| 35 | Functional near-infrared spectroscopy for the measurement of propofol effects in conscious sedation during outpatient elective colonoscopy. NeuroImage, 2014, 85, 626-636. | 4.2 | 15 |
| 36 | Molecular concentration of deoxyHb in human prefrontal cortex predicts the emergence and suppression of consciousness. NeuroImage, 2014, 85, 616-625. | 4.2 | 27 |

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| 37 | 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 |
| 38 | Continuous monitoring of brain dynamics with functional near infrared spectroscopy as a tool for neuroergonomic research: empirical examples and a technological development. Frontiers in Human Neuroscience, 2013, 7, 871. | 2.0 | 211 |
| 39 | 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 |
| 40 | Brain in the Loop Learning Using Functional Near Infrared Spectroscopy. Lecture Notes in Computer Science, 2013, , 381-389. | 1.3 | 5 |
| 41 | Human Performance Assessment Study in Aviation Using Functional Near Infrared Spectroscopy. Lecture Notes in Computer Science, 2013, , 433-442. | 1.3 | 6 |
| 42 | Functional brain activity monitoring during Unmanned Aerial Vehicle coordination. , 2012, , . | | 2 |
| 43 | Monitoring expertise development during simulated UAV piloting tasks using optical brain imaging. , 2012, , . | | 42 |
| 44 | Frontal lobe role in simple arithmetic calculations: An fNIR study. Neuroscience Letters, 2012, 510, 43-47. | 2.1 | 20 |
| 45 | Optical brain monitoring for operator training and mental workload assessment. NeuroImage, 2012, 59, 36-47. | 4.2 | 526 |
| 46 | 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 |
| 47 | Using Brain Activity to Predict Task Performance and Operator Efficiency. Lecture Notes in Computer Science, 2012, , 147-155. | 1.3 | 18 |
| 48 | 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 |
| 49 | fNIRS Study of Walking and Walking While Talking in Young and Old Individuals. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 879-887. | 3.6 | 337 |
| 50 | 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 |
| 51 | Optical Brain Imaging to Enhance UAV Operator Training, Evaluation, and Interface Development. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 423-443. | 3.4 | 35 |
| 52 | THE EVOLUTION OF FIELD DEPLOYABLE fNIR SPECTROSCOPY FROM BENCH TO CLINICAL SETTINGS. Journal of Innovative Optical Health Sciences, 2011, 04, 239-250. | 1.0 | 55 |
| 53 | Implementation of fNIRS for Monitoring Levels of Expertise and Mental Workload. Lecture Notes in Computer Science, 2011, , 13-22. | 1.3 | 41 |
| 54 | 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 |

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| 55 | Brain in the Loop: Assessing Learning Using fNIR in Cognitive and Motor Tasks. Lecture Notes in Computer Science, 2011, , 240-249. | 1.3 | 12 |
| 56 | Estimation of Cognitive Workload during Simulated Air Traffic Control Using Optical Brain Imaging Sensors. Lecture Notes in Computer Science, 2011, , 549-558. | 1.3 | 12 |
| 57 | Applications of Functional Near Infrared Imaging: Case Study on UAV Ground Controller. Lecture Notes in Computer Science, 2011, , 608-617. | 1.3 | 8 |
| 58 | Using MazeSuite and Functional Near Infrared Spectroscopy to Study Learning in Spatial Navigation. Journal of Visualized Experiments, 2011, , . | 0.3 | 153 |
| 59 | An indoor study to evaluate a mixed-reality interface for unmanned aerial vehicle operations in near earth environments. , 2010, , . | | 2 |
| 60 | Efficient learning produces spontaneous neural repetition suppression in prefrontal cortex. Behavioural Brain Research, 2010, 208, 502-508. | 2.2 | 27 |
| 61 | Optical Brain Imaging to Enhance UAV Operator Training, Evaluation, and Interface Development. , 2010, , 423-443. | | 5 |
| 62 | Cognitive Workload Assessment of Air Traffic Controllers Using Optical Brain Imaging Sensors. Advances in Human Factors and Ergonomics Series, 2010, , 21-31. | 0.2 | 30 |
| 63 | Microwave Photonics applied to fNIR based biomedical imaging?. , 2009, , . | | 2 |
| 64 | Does dorsolateral prefrontal cortex (DLPFC) activation return to baseline when sexual stimuli cease?. Neuroscience Letters, 2007, 416, 55-60. | 2.1 | 37 |
| 65 | A lasting post-stimulus activation on dorsolateral prefrontal cortex is produced when processing valence and arousal in visual affective stimuli. Neuroscience Letters, 2007, 422, 147-152. | 2.1 | 35 |
| 66 | Functional brain imaging using near-infrared technology. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 38-46. | 0.8 | 143 |
| 67 | Differential time course and intensity of PFC activation for men and women in response to emotional stimuli: A functional near-infrared spectroscopy (fNIRS) study. Neuroscience Letters, 2006, 403, 90-95. | 2.1 | 67 |
| 68 | Registering fNIR Data to Brain Surface Image using MRI templates. , 2006, 2006, 2671-4. | | 90 |
| 69 | Functional near-infrared spectroscopy. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 54-62. | 0.8 | 250 |
| 70 | 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 |
| 71 | Functional near-infrared neuroimaging. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 153-159. | 4.9 | 207 |
| 72 | Functional near-infrared neuroimaging. , 2004, 2004, 5333-6. | | 12 |

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|---|---------|-----|-----------|
| 73 | \<title\>Motion artifact removal in FNIR spectroscopy for real-world applications\</title\>. , 2004, 5588, 224. | | 5 |
| 74 | Functional Optical Brain Imaging Using Near-Infrared During Cognitive Tasks. International Journal of Human-Computer Interaction, 2004, 17, 211-227. | 4.8 | 187 |
| 75 | An automated intelligent diagnostic system for the interpretation of umbilical artery Doppler velocimetry. European Journal of Radiology, 1996, 23, 162-167. | 2.6 | 7 |
| 76 | Functional brain monitoring via NIR based optical spectroscopy. , 0, , . | | 7 |
| 77 | Cognitive Performance Assessment of UAS Sensor Operators via Neurophysiological Measures. Frontiers in Human Neuroscience, 0, 12, . | 2.0 | 7 |
| 78 | Neural Correlates of Math Anxiety and Ability on Price Promotions and Consumer Decisions. Frontiers in Human Neuroscience, 0, 12, . | 2.0 | 0 |
| 79 | Audience preference prediction for commercials using fNIRS. Frontiers in Human Neuroscience, 0, 12, . | 2.0 | 0 |