Steffen Walter

List of Publications by Year
in descending order

37 papers	1,292 citations	471509 17 h-index	610901 24 g-index
40 all docs	40 docs citations	40 times ranked	702 citing authors

#	Article	IF	Citations
1	Automatic Recognition Methods Supporting Pain Assessment: A Survey. IEEE Transactions on Affective Computing, 2022, 13, 530-552.	8.3	112
2	Multi-Modal Pain Intensity Recognition Based on the <i>SenseEmotion</i> Database. IEEE Transactions on Affective Computing, 2021, 12, 743-760.	8.3	50
3	Automatic vs. Human Recognition of Pain Intensity from Facial Expression on the X-ITE Pain Database. Sensors, 2021, 21, 3273.	3.8	15
4	Autonomous Nervous Response During Sedation in Colonoscopy and the Relationship With Clinician Satisfaction. Frontiers in Medicine, 2021, 8, 643158.	2.6	0
5	Measurement of the nociceptive flexion reflex threshold in critically ill patients â€" a randomized observational pilot study. BMC Anesthesiology, 2021, 21, 270.	1.8	5
6	Skepticism towards advancing VR technology - student acceptance of VR as a teaching and assessment tool in medicine. GMS Journal for Medical Education, 2021, 38, Doc100.	0.1	0
7	Evaluation of an Objective Measurement Tool for Stress Level Reduction by Individually Chosen Music During Colonoscopyâ€"Results From the Study â€œColoRelaxToneâ€• Frontiers in Medicine, 2020, 7, 525.	2.6	7
8	Choosing a Surgical Access Point for Hysterectomy: A Paradigm Shift Over a 10-Year Span. Frontiers in Medicine, 2020, 7, 569895.	2.6	1
9	â€œWhat About Automated Pain Recognition for Routine Clinical Use?â€•A Survey of Physicians and Nursing Staff on Expectations, Requirements, and Acceptance. Frontiers in Medicine, 2020, 7, 566278.	2.6	9
10	Comparative evaluation of methods for the detection of electrodermal responses to multilevel intensity thermal noxious stimuli. Research on Biomedical Engineering, 2019, 35, 183-192.	2.2	0
11	Multi-Modal Signals for Analyzing Pain Responses to Thermal and Electrical Stimuli. Journal of Visualized Experiments, 2019, , .	0.3	35
12	Cross-Database Evaluation of Pain Recognition from Facial Video. , 2019, , .		14
13	Twofold-Multimodal Pain Recognition with the X-ITE Pain Database. , 2019, , .		16
14	Head movements and postures as pain behavior. PLoS ONE, 2018, 13, e0192767.	2.5	27
15	Automatic Pain Assessment with Facial Activity Descriptors. IEEE Transactions on Affective Computing, 2017, 8, 286-299.	8.3	103
16	Adaptive confidence learning for the personalization of pain intensity estimation systems. Evolving Systems, 2017, 8, 71-83.	3.9	56
17	Preliminary classification of cognitive load states in a human machine interaction scenario. , 2017, , .		4
18	Analysis of facial expressiveness during experimentally induced heat pain. , 2017, , .		21

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19	The SenseEmotion Database: A Multimodal Database for the Development and Systematic Validation of an Automatic Pain- and Emotion-Recognition System. Lecture Notes in Computer Science, 2017, , 127-139.	1.3	30
20	â€œBioVid Emo DBâ€: A multimodal database for emotion analyses validated by subjective ratings. , 2016, , .		19
21	Recognition of Intensive Valence and Arousal Affective States via Facial Electromyographic Activity in Young and Senior Adults. PLoS ONE, 2016, 11, e0146691.	2.5	23
22	Affective Computing and the Impact of Gender and Age. PLoS ONE, 2016, 11, e0150584.	2.5	36
23	Data fusion for automated pain recognition. , 2015, , .		11
24	Pain Intensity Recognition Rates via Biopotential Feature Patterns with Support Vector Machines. PLoS ONE, 2015, 10, e0140330.	2.5	96
25	Multimodal Data Fusion for Person-Independent, Continuous Estimation of Pain Intensity. Communications in Computer and Information Science, 2015, , 275-285.	0.5	40
26	Bio-Visual Fusion for Person-Independent Recognition of Pain Intensity. Lecture Notes in Computer Science, 2015, , 220-230.	1.3	39
27	Automatic pain quantification using autonomic parameters.. Psychology and Neuroscience, 2014, 7, 363-380.	0.8	70
28	Automatic Pain Recognition from Video and Biomedical Signals. , 2014, , .		87
29	Automatic heart rate estimation from painful faces. , 2014, , .		7
30	Similarities and differences of emotions in humanâ€"machine and humanâ€"human interactions: what kind of emotions are relevant for future companion systems?. Ergonomics, 2014, 57, 374-386.	2.1	24
31	Using unlabeled data to improve classification of emotional states in human computer interaction. Journal on Multimodal User Interfaces, 2014, 8, 5-16.	2.9	25
32	Transsituational Individual-Specific Biopsychological Classification of Emotions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 988-995.	9.3	42
33	The biovid heat pain database data for the advancement and systematic validation of an automated pain recognition system. , 2013, , .		146
34	Towards Pain Monitoring: Facial Expression, Head Pose, a new Database, an Automatic System and Remaining Challenges. , 2013, , .		56
35	Repeatability of facial electromyography (EMG) activity over corrugator supercilii and zygomaticus major on differentiating various emotions. Journal of Ambient Intelligence and Humanized Computing, 2012, 3, 3-10.	4.9	59
36	Measuring Verbal Intelligence Using Linguistic Analysis. , 2011, , .		1

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37	The influence of neuroticism and psychological symptoms on the assessment of images in three-dimensional emotion space. Gms Psycho-social-medicine, 2011, 8, Doc04.	1.2	2