

Steffen Walter

List of Publications by Year in descending order

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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	The biovid heat pain database data for the advancement and systematic validation of an automated pain recognition system. , 2013, , .		146
2	Automatic Recognition Methods Supporting Pain Assessment: A Survey. IEEE Transactions on Affective Computing, 2022, 13, 530-552.	8.3	112
3	Automatic Pain Assessment with Facial Activity Descriptors. IEEE Transactions on Affective Computing, 2017, 8, 286-299.	8.3	103
4	Pain Intensity Recognition Rates via Biopotential Feature Patterns with Support Vector Machines. PLoS ONE, 2015, 10, e0140330.	2.5	96
5	Automatic Pain Recognition from Video and Biomedical Signals. , 2014, , .		87
6	Automatic pain quantification using autonomic parameters.. Psychology and Neuroscience, 2014, 7, 363-380.	0.8	70
7	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
8	Adaptive confidence learning for the personalization of pain intensity estimation systems. Evolving Systems, 2017, 8, 71-83.	3.9	56
9	Towards Pain Monitoring: Facial Expression, Head Pose, a new Database, an Automatic System and Remaining Challenges. , 2013, , .		56
10	Multi-Modal Pain Intensity Recognition Based on the <i>SenseEmotion</i> Database. IEEE Transactions on Affective Computing, 2021, 12, 743-760.	8.3	50
11	Transsituational Individual-Specific Biopsychological Classification of Emotions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 988-995.	9.3	42
12	Multimodal Data Fusion for Person-Independent, Continuous Estimation of Pain Intensity. Communications in Computer and Information Science, 2015, , 275-285.	0.5	40
13	Bio-Visual Fusion for Person-Independent Recognition of Pain Intensity. Lecture Notes in Computer Science, 2015, , 220-230.	1.3	39
14	Affective Computing and the Impact of Gender and Age. PLoS ONE, 2016, 11, e0150584.	2.5	36
15	Multi-Modal Signals for Analyzing Pain Responses to Thermal and Electrical Stimuli. Journal of Visualized Experiments, 2019, , .	0.3	35
16	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
17	Head movements and postures as pain behavior. PLoS ONE, 2018, 13, e0192767.	2.5	27
18	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

#	ARTICLE	IF	CITATIONS
19	Similarities and differences of emotions in human-machine and human-human interactions: what kind of emotions are relevant for future companion systems?. <i>Ergonomics</i> , 2014, 57, 374-386.	2.1	24
20	Recognition of Intensive Valence and Arousal Affective States via Facial Electromyographic Activity in Young and Senior Adults. <i>PLoS ONE</i> , 2016, 11, e0146691.	2.5	23
21	Analysis of facial expressiveness during experimentally induced heat pain. , 2017, , .		21
22	â€œBioVid Emo DBâ€: A multimodal database for emotion analyses validated by subjective ratings. , 2016, , .		19
23	Twofold-Multimodal Pain Recognition with the X-ITE Pain Database. , 2019, , .		16
24	Automatic vs. Human Recognition of Pain Intensity from Facial Expression on the X-ITE Pain Database. <i>Sensors</i> , 2021, 21, 3273.	3.8	15
25	Cross-Database Evaluation of Pain Recognition from Facial Video. , 2019, , .		14
26	Data fusion for automated pain recognition. , 2015, , .		11
27	â€œWhat About Automated Pain Recognition for Routine Clinical Use?â€•A Survey of Physicians and Nursing Staff on Expectations, Requirements, and Acceptance. <i>Frontiers in Medicine</i> , 2020, 7, 566278.	2.6	9
28	Automatic heart rate estimation from painful faces. , 2014, , .		7
29	Evaluation of an Objective Measurement Tool for Stress Level Reduction by Individually Chosen Music During Colonoscopyâ€”Results From the Study â€œColoRelaxToneâ€• <i>Frontiers in Medicine</i> , 2020, 7, 525.	2.6	7
30	Measurement of the nociceptive flexion reflex threshold in critically ill patients â€” a randomized observational pilot study. <i>BMC Anesthesiology</i> , 2021, 21, 270.	1.8	5
31	Preliminary classification of cognitive load states in a human machine interaction scenario. , 2017, , .		4
32	The influence of neuroticism and psychological symptoms on the assessment of images in three-dimensional emotion space. <i>Gms Psycho-social-medicine</i> , 2011, 8, Doc04.	1.2	2
33	Measuring Verbal Intelligence Using Linguistic Analysis. , 2011, , .		1
34	Choosing a Surgical Access Point for Hysterectomy: A Paradigm Shift Over a 10-Year Span. <i>Frontiers in Medicine</i> , 2020, 7, 569895.	2.6	1
35	Comparative evaluation of methods for the detection of electrodermal responses to multilevel intensity thermal noxious stimuli. <i>Research on Biomedical Engineering</i> , 2019, 35, 183-192.	2.2	0
36	Autonomous Nervous Response During Sedation in Colonoscopy and the Relationship With Clinician Satisfaction. <i>Frontiers in Medicine</i> , 2021, 8, 643158.	2.6	0

#	ARTICLE	IF	CITATIONS
37	Skepticism towards advancing VR technology - student acceptance of VR as a teaching and assessment tool in medicine. <i>GMS Journal for Medical Education</i> , 2021, 38, Doc100.	0.1	0