Rosalind W Picard

List of Publications by Year
in descending order

64 papers	9,824 citations	186265 28 h-index	265206 42 g-index
69 all docs	69 docs citations	69 times ranked	7754 citing authors

#	ARTICLE	IF	CITATIONS
1	Non-contact, automated cardiac pulse measurements using video imaging and blind source separation. Optics Express, 2010, 18, 10762.	3.4	1,224
2	Photobook: Content-based manipulation of image databases. International Journal of Computer Vision, 1996, 18, 233-254.	15.6	1,062
3	Establishing and maintaining long-term human-computer relationships. ACM Transactions on Computer-Human Interaction, 2005, 12, 293-327.	5.7	787
4	A Wearable Sensor for Unobtrusive, Long-Term Assessment of Electrodermal Activity. IEEE Transactions on Biomedical Engineering, 2010, 57, 1243-1252.	4.2	513
5	Automatic prediction of frustration. International Journal of Human Computer Studies, 2007, 65, 724-736.	5.6	460
6	Periodicity, directionality, and randomness: Wold features for image modeling and retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 722-733.	13.9	404
7	Establishing the computer–patient working alliance in automated health behavior change interventions. Patient Education and Counseling, 2005, 59, 21-30.	2.2	377
8	Stress Recognition Using Wearable Sensors and Mobile Phones. , 2013, , .		345
9	Irregular sleep/wake patterns are associated with poorer academic performance and delayed circadian and sleep/wake timing. Scientific Reports, 2017, 7, 3216.	3.3	325
10	Augmented Reality through Wearable Computing. Presence: Teleoperators and Virtual Environments, 1997, 6, 386-398.	0.6	291
11	Toward an Affect-Sensitive AutoTutor. IEEE Intelligent Systems, 2007, 22, 53-61.	4.0	274
12	Computers that recognise and respond to user emotion: theoretical and practical implications. Interacting With Computers, 2002, 14, 141-169.	1.5	264
13	Exertion interfaces. , 2003, , .		245
14	Identifying Objective Physiological Markers and Modifiable Behaviors for Self-Reported Stress and Mental Health Status Using Wearable Sensors and Mobile Phones: Observational Study. Journal of Medical Internet Research, 2018, 20, e210.	4.3	230
15	Multimodal affect recognition in learning environments. , 2005, , .		225
16	Interactive learning with a "society of models". Pattern Recognition, 1997, 30, 565-581.	8.1	200
17	Automated Posture Analysis for Detecting Learner's Interest Level. , 2003, , .		184
18	Multiple Arousal Theory and Daily-Life Electrodermal Activity Asymmetry. Emotion Review, 2016, 8, 62-75.	3.4	179

#	Article	IF	Citations
19	Recognizing academic performance, sleep quality, stress level, and mental health using personality traits, wearable sensors and mobile phones. , 2015, 2015, .		173
20	Automatic identification of artifacts in electrodermal activity data. , 2015, 2015, 1934-7.		159
21	Efficacy of a Web-Based, Crowdsourced Peer-To-Peer Cognitive Reappraisal Platform for Depression: Randomized Controlled Trial. Journal of Medical Internet Research, 2015, 17, e72.	4.3	148
22	Affective Computing and Autism. Annals of the New York Academy of Sciences, 2006, 1093, 228-248.	3.8	128
23	Call Center Stress Recognition with Person-Specific Models. Lecture Notes in Computer Science, 2011, , 125-134.	1.3	121
24	Quantitative analysis of wrist electrodermal activity during sleep. International Journal of Psychophysiology, 2014, 94, 382-389.	1.0	114
25	Automatic Recognition Methods Supporting Pain Assessment: A Survey. IEEE Transactions on Affective Computing, 2022, 13, 530-552.	8.3	112
26	Gender-Specific Approaches to Developing Emotionally Intelligent Learning Companions. IEEE Intelligent Systems, 2007, 22, 62-69.	4.0	103
27	A real-time head nod and shake detector. , 2001, , .		101
28	Predicting students' happiness from physiology, phone, mobility, and behavioral data. , 2015, 2015, 222-228.		101
29	BioWatch: Estimation of Heart and Breathing Rates from Wrist Motions. , 2015, , .		84
30	Helping Others Regulate Emotion Predicts Increased Regulation of One's Own Emotions and Decreased Symptoms of Depression. Personality and Social Psychology Bulletin, 2017, 43, 729-739.	3.0	72
31	Monitoring Changes in Depression Severity Using Wearable and Mobile Sensors. Frontiers in Psychiatry, 2020, 11, 584711.	2.6	61
32	The HandWave Bluetooth Skin Conductance Sensor. Lecture Notes in Computer Science, 2005, , 699-706.	1.3	57
33	Irregular sleep and event schedules are associated with poorer self-reported well-being in US college students. Sleep, 2020, 43, .	1.1	57
34	Multi-task neural networks for personalized pain recognition from physiological signals. , 2017, , .		51
35	Relative subjective count and assessment of interruptive technologies applied to mobile monitoring of stress. International Journal of Human Computer Studies, 2007, 65, 361-375.	5.6	49
36	Continuous Pain Intensity Estimation from Autonomic Signals with Recurrent Neural Networks. , 2018, 2018, 5624-5627.		46

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37	Wearable ESM. , 2016, , .		44
38	Wireless Technologies, Ubiquitous Computing and Mobile Health: Application to Drug Abuse Treatment and Compliance with HIV Therapies. Journal of Medical Toxicology, 2010, 6, 212-216.	1.5	40
39	Multimodal Ambulatory Sleep Detection Using LSTM Recurrent Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1607-1617.	6.3	37
40	Toward Assessing and Recommending Combinations of Behaviors for Improving Health and Well-Being. ACM Transactions on Computing for Healthcare, 2020, 1, 1-29.	5.0	37
41	Computing in Mental Health. , 2016, , .		29
42	The Bayes Point Machine for computer-user frustration detection via pressuremouse. , 2001, , .		26
43	Multi-modal Active Learning From Human Data: A Deep Reinforcement Learning Approach. , 2019, , .		25
44	Toward Impactful Collaborations on Computing and Mental Health. Journal of Medical Internet Research, 2018, 20, e49.	4.3	23
45	Use of In-Game Rewards to Motivate Daily Self-Report Compliance: Randomized Controlled Trial. Journal of Medical Internet Research, 2019, 21, e11683.	4.3	22
46	Comparison of sleep-wake classification using electroencephalogram and wrist-worn multi-modal sensor data. , 2014, 2014, 930-3.		21
47	Promoting Wellbeing with Sunny, a Chatbot that Facilitates Positive Messages within Social Groups. , 2020, , .		21
48	Self-Cam. , 2006, , .		20
49	Robust stability of melatonin circadian phase, sleep metrics, and chronotype across months in young adults living in realâ€world settings. Journal of Pineal Research, 2021, 70, e12720.	7.4	19
50	Crowd-powered positive psychological interventions. Journal of Positive Psychology, 2014, 9, 509-516.	4.0	17
51	Adding Human-Provided Emotional Scaffolding to an Automated Reading Tutor That Listens Increases Student Persistence. Lecture Notes in Computer Science, 2002, , 992-992.	1.3	15
52	Finding perceptually dominant orientations in natural textures. Spatial Vision, 1994, 8, 221-253.	1.4	13
53	Multimodal ambulatory sleep detection. , 2017, 2017, 465-468.		13
54	Sleep assessment by means of a wrist actigraphy-based algorithm: agreement with polysomnography in an ambulatory study on older adults. Chronobiology International, 2021, 38, 400-414.	2.0	13

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55	Special issue on dialog systems for health communication. Journal of Biomedical Informatics, 2006, 39, 465-467.	4.3	12
56	Mixture of Gaussian Processes for Combining Multiple Modalities. Lecture Notes in Computer Science, 2005, , 86-96.	1.3	11
57	Shybot. , 2008, , .		11
58	Multi-task multiple kernel machines for personalized pain recognition from functional near-infrared spectroscopy brain signals. , 2018, , .		8
59	Probabilistic Latent Variable Modeling for Assessing Behavioral Influences on Well-Being. , 2019, , .		8
60	Can We Predict Depression From the Asymmetry of Electrodermal Activity?. Iproceedings, 2016, 2, e23.	0.1	4
61	Ethical Evaluation of Displays that Adapt to Affect. Cyberpsychology, Behavior and Social Networking, 2004, 7, 662-666.	2.2	3
62	2nd Symposia on Computing and Mental Health. , 2017, , .		3
63	Workshop on Social and Emotional Intelligence in Learning Environments. Lecture Notes in Computer Science, 2004, , 913-913.	1.3	1
64	Combining Electrodermal Activity With the Peak-Pain Time to Quantify Three Temporal Regions of Pain Experience. Frontiers in Pain Research, 2022, 3, 764128.	2.0	1