Antonio Lanat

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 106
 2,319
 26
 45

 papers
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 g-index

 111
 2,788
 3
 5.05

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
106	SoC CMOS UWB Pulse Radar Sensor for Contactless Respiratory Rate Monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011 , 5, 503-10	5.1	151
105	cvxEDA: A Convex Optimization Approach to Electrodermal Activity Processing. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 797-804	5	145
104	. IEEE Transactions on Affective Computing, 2012 , 3, 237-249	5.7	132
103	. IEEE Transactions on Affective Computing, 2015 , 6, 385-394	5.7	108
102	Complexity index from a personalized wearable monitoring system for assessing remission in mental health. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 132-9	7.2	100
101	Wearable monitoring for mood recognition in bipolar disorder based on history-dependent long-term heart rate variability analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 16.	2 3-3 5	99
100	Revealing real-time emotional responses: a personalized assessment based on heartbeat dynamics. <i>Scientific Reports</i> , 2014 , 4, 4998	4.9	96
99	. IEEE Transactions on Intelligent Transportation Systems, 2015 , 16, 1505-1517	6.1	78
98	Mood recognition in bipolar patients through the PSYCHE platform: preliminary evaluations and perspectives. <i>Artificial Intelligence in Medicine</i> , 2013 , 57, 49-58	7.4	71
97	Comparative evaluation of susceptibility to motion artifact in different wearable systems for monitoring respiratory rate. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 378-5	86	66
96	Dominant Lyapunov exponent and approximate entropy in heart rate variability during emotional visual elicitation. <i>Frontiers in Neuroengineering</i> , 2012 , 5, 3		61
95	Electrodermal activity in bipolar patients during affective elicitation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1865-73	7.2	60
94	Characterization of depressive States in bipolar patients using wearable textile technology and instantaneous heart rate variability assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 263-74	7.2	48
93	Oscillations of heart rate and respiration synchronize during affective visual stimulation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 683-90		46
92	Mood states modulate complexity in heartbeat dynamics: A multiscale entropy analysis. <i>Europhysics Letters</i> , 2014 , 107, 18003	1.6	41
91	A novel EDA glove based on textile-integrated electrodes for affective computing. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 1163-72	3.1	41
90	Robust multiple cardiac arrhythmia detection through bispectrum analysis. <i>Expert Systems With Applications</i> , 2011 , 38, 6798-6804	7.8	41

(2016-2010)

89	A multimodal transducer for cardiopulmonary activity monitoring in emergency. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 817-25		41	
88	Speech analysis for mood state characterization in bipolar patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2104-7	0.9	39	
87	Improving emotion recognition systems by embedding cardiorespiratory coupling. <i>Physiological Measurement</i> , 2013 , 34, 449-64	2.9	38	
86	Predicting Mood Changes in Bipolar Disorder through Heartbeat Nonlinear Dynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1034-1043	7.2	35	
85	Point-process nonlinear autonomic assessment of depressive states in bipolar patients. <i>Methods of Information in Medicine</i> , 2014 , 53, 296-302	1.5	34	
84	Eye gaze patterns in emotional pictures. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 705-715	3.7	33	
83	On the deconvolution analysis of electrodermal activity in bipolar patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6691-4	0.9	30	
82	Design and preliminary affective characterization of a novel fabric-based tactile display 2014,		28	
81	A nonlinear heartbeat dynamics model approach for personalized emotion recognition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2579-82	0.9	27	
80	Towards a smart glove: arousal recognition based on textile Electrodermal Response. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3598-601	0.9	26	
79	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. <i>Electronics (Switzerland)</i> , 2016 , 5, 46	2.6	25	
78	A Novel Algorithm for Movement Artifact Removal in ECG Signals Acquired from Wearable Systems Applied to Horses. <i>PLoS ONE</i> , 2015 , 10, e0140783	3.7	24	
77	Can a Humanoid Face be Expressive? A Psychophysiological Investigation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 64	5.8	23	
76	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. <i>International Journal of Telemedicine and Applications</i> , 2008 , 328597	2.6	22	
75	Inference of human affective states from psychophysiological measurements extracted under ecologically valid conditions. <i>Frontiers in Neuroscience</i> , 2014 , 8, 286	5.1	21	
74	Real-Time Discrimination of Multiple Cardiac Arrhythmias for Wearable Systems Based on Neural Networks 2008 ,		18	
73	Wearable system-on-a-chip UWB radar for health care and its application to the safety improvement of emergency operators. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2651-4		18	
72	A Wearable System for the Evaluation of the Human-Horse Interaction: A Preliminary Study. <i>Electronics (Switzerland)</i> , 2016 , 5, 63	2.6	18	

71	Assessment of sensing fire fighters uniforms for physiological parameter measurement in harsh environment. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 501-11		15
70	Electrodermal activity processing: a convex optimization approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2290-3	0.9	15
69	The social perceptual salience effect. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013 , 39, 62-74	2.6	15
68	Eye tracking and pupil size variation as response to affective stimuli: a preliminary study 2011 ,		14
67	Emotional Transfer in Human-Horse Interaction: New Perspectives on Equine Assisted Interventions. <i>Animals</i> , 2019 , 9,	3.1	14
66	Inter- and Intra-Species Communication of Emotion: Chemosignals as the Neglected Medium. <i>Animals</i> , 2019 , 9,	3.1	13
65	Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime. <i>Scientific Reports</i> , 2017 , 7, 17920	4.9	13
64	Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 37	3.5	13
63	Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study. <i>Journal of Affective Disorders</i> , 2017 , 209, 30-38	6.6	12
62	Validation of smart textile electrodes for electrocardiogram monitoring in free-moving horses. Journal of Veterinary Behavior: Clinical Applications and Research, 2017, 17, 19-23	1.9	12
61	Consistency and flexibility in solving spatial tasks: different horses show different cognitive styles. <i>Scientific Reports</i> , 2017 , 7, 16557	4.9	12
60	A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders 2014 ,		12
59	XIM-engine 2014 ,		11
58	Comparitive study on photometric normalization algorithms for an innovative, robust and real-time eye gaze tracker. <i>Journal of Real-Time Image Processing</i> , 2013 , 8, 21-33	1.9	11
57	High frequency poroelastic waves in hydrogels. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 1197-207	2.2	11
56	Enabling technology for heart health wireless assistance 2010 ,		11
55	A tool for the real-time evaluation of ECG signal quality and activity: Application to submaximal treadmill test in horses. <i>Biomedical Signal Processing and Control</i> , 2020 , 56, 101666	4.9	11
54	Electrodermal activity analysis during affective haptic elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 5777-80	0.9	10

Advanced interfaces to stem the data deluge in mixed reality 2013, 10 53 Acoustic waves in hydrogels: A bi-phasic model for ultrasound tissue-mimicking phantom. Materials 8.3 52 10 Science and Engineering C, 2009, 29, 899-907 On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. International 51 4 9 Journal of Social Robotics, 2017, 9, 87-95 An FPGA Based Arrhythmia Recognition System for Wearable Applications 2009, 50 9 Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric 49 9 Analysis 2012, A Case for the Interspecies Transfer of Emotions: A Preliminary Investigation on How Humans Odors Modify Reactions of the Autonomic Nervous System in Horses. Annual International 48 0.9 9 Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. Annual International Conference of the IEEE Engineering in Medicine and Biology Society 8 0.9 47 IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 298-301 Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments. Frontiers in 46 8 5.1 Neuroscience, 2019, 13, 1431 Novel Spiking Neuron-Astrocyte Networks based on nonlinear transistor-like models of tripartite synapses. Annual International Conference of the IEEE Engineering in Medicine and Biology Society 8 0.9 45 IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 6559-62 Sensors for Wearable Systems 2011, 3-25 8 44 Quantitative heartbeat coupling measures in human-horse interaction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and 8 43 Biology Society Annual International Conference, 2016, 2016, 2696-2699 Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE 42 0.9 7 Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4519-4522 A sensing architecture for empathetic data systems 2013, 41 7 Combining Electrodermal Activity and Speech Analysis towards a more Accurate Emotion Recognition System. Annual International Conference of the IEEE Engineering in Medicine and Biology 40 0.9 6 Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, The role of nonlinear coupling in Human-Horse Interaction: A preliminary study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in 6 39 0.9 Medicine and Biology Society Annual International Conference, 2017, 2017, 1320-1323 38 Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview 2007, 6 Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. IEEE 7.2 37 5 Journal of Biomedical and Health Informatics, 2019, 23, 2417-2427 Removing movement artifacts from equine ECG recordings acquired with textile electrodes. Annual 36 International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in 5 Medicine and Biology Society Annual International Conference, 2015, 2015, 1955-8

35	EEG complexity drug-induced changes in disorders of consciousness: a preliminary report. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3724-7	0.9	5
34	Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 582759	3.1	5
33	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International	0.9	4
32	Conference, 2016, 2016, 399-402 Predicting mood changes in bipolar disorder through heartbeat nonlinear dynamics: A preliminary study 2015,		4
31	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis 2012 ,		4
3 0	Smart textiles biotechnology for electrocardiogram monitoring in horses during exercise on treadmill: Validation tests. <i>Equine Veterinary Journal</i> , 2021 , 53, 373-378	2.4	4
29	Advanced technology meets mental health: how smartphones, textile electronics, and signal processing can serve mental health monitoring, diagnosis, and treatment. <i>IEEE Pulse</i> , 2014 , 5, 56-9	0.7	3
28	Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual	0.9	3
27	Instantaneous Assessment of Hedonic Olfactory Perception Using Heartbeat Nonlinear Dynamics: a Preliminary Study 2017 ,		3
26	Electroencephalographic spectral correlates of caress-like affective haptic stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4733-6	0.9	3
25	Temporal trends of neuro-autonomic complexity during severe episodes of bipolar disorders. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 2948-51	0.9	3
24	Quantitative EEG analysis in minimally conscious state patients during postural changes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6313-6	0.9	3
23	Electrodermal Responses Through Textile Electrodes. <i>Research Journal of Textile and Apparel</i> , 2010 , 14, 81-88	1.1	3
22	New Ultrasound-Based Wearable System for Cardiac Monitoring 2006 ,		3
21	Wearable system-on-a-chip radiometer for remote temperature sensing and its application to the safeguard of emergency operators. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5716-9		3
20	Brain dynamics during emotion elicitation in healthy subjects: An EEG study 2015 ,		2
19	On the tridimensional estimation of the gaze point by a stereoscopic wearable eye tracker. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 2283-6	0.9	2
18	Arousal recognition system based on heartbeat dynamics during auditory elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6110-3	0.9	2

LIST OF PUBLICATIONS

17	Maximal-radius multiscale entropy of cardiovascular variability: a promising biomarker of pathological mood states in bipolar disorders. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual</i>	0.9	2
16	International Conference, 2014, 2014, 6663-6 Smart Textiles: Technology and Wireless System Network Applications. Springer Series on Chemical Sensors and Biosensors, 2012, 127-158	2	2
15	The contribution of the phase spectrum in automatic multiple cardiac arrhythmias recognition in wearable systems 2010 ,		2
14	Characterization of behavioral activation in non-pathological subjects through Heart Rate Variability monovariate and multivariate multiscale entropy analysis 2014 ,		1
13	Performance analysis and early validation of a bi-modal ultrasound transducer. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 1858-61		1
12	Poroelastic longitudinal wave equation for soft living tissues. <i>Journal of Biorheology</i> , 2014 , 28, 29-37	0.3	1
11	Linear and non linear measures of pupil size as a function of hypnotizability. <i>Scientific Reports</i> , 2021 , 11, 5196	4.9	1
10	Rein Tension Signals Elicit Different Behavioral Responses When Comparing Bitted Bridle and Halter. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 652015	3.1	1
9	Multiscale Entropy Analysis of Heart Rate Variability in Neonatal Patients with and without Seizures. <i>Bioengineering</i> , 2021 , 8,	5.3	1
8	HRV analysis: a non-invasive approach to discriminate between newborns with and without seizures. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021 , 2021, 52-55	0.9	O
7	Automatic Detection of Epileptic Seizures in Neonatal Intensive Care Units Through EEG, ECG and Video Recordings: A Survey. <i>IEEE Access</i> , 2021 , 9, 138174-138191	3.5	O
6	Interspecific two-dimensional visual discrimination of faces in horses (Equus caballus). <i>PLoS ONE</i> , 2021 , 16, e0247310	3.7	0
5	A Generalized Linear Model for an ECG-based Neonatal Seizure Detector. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 471-474	0.9	0
4	Guest Editorial Sensor Informatics for Managing Mental Health. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 975-976	7.2	
3	Monitoring voluntary blink magnitude through a wearable eye-tracking system: A preliminary study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1583-1586	0.9	
2	Applications of Heartbeat Complexity Analysis to Depression and Bipolar Disorder 2017 , 345-374		
1	Real-time Evaluation of ECG Acquisition Systems through Signal Quality Assessment in Horses during Submaximal Treadmill Test. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> 2018, 2018, 498-501	0.9	