

Antonio Lanat

List of Publications by Year in Descending Order

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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
papers

2,319
citations

26
h-index

45
g-index

111
ext. papers

2,788
ext. citations

3
avg. IF

5.05
L-index

#	Paper	IF	Citations
106	HRV analysis: a non-invasive approach to discriminate between newborns with and without seizures. <i>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</i>	0.9	0
105	Automatic Detection of Epileptic Seizures in Neonatal Intensive Care Units Through EEG, ECG and Video Recordings: A Survey. <i>IEEE Access, 2021, 9, 138174-138191</i>	3.5	0
104	Linear and non linear measures of pupil size as a function of hypnotizability. <i>Scientific Reports, 2021, 11, 5196</i>	4.9	1
103	Rein Tension Signals Elicit Different Behavioral Responses When Comparing Bitted Bridle and Halter. <i>Frontiers in Veterinary Science, 2021, 8, 652015</i>	3.1	1
102	Smart textiles biotechnology for electrocardiogram monitoring in horses during exercise on treadmill: Validation tests. <i>Equine Veterinary Journal, 2021, 53, 373-378</i>	2.4	4
101	Interspecific two-dimensional visual discrimination of faces in horses (<i>Equus caballus</i>). <i>PLoS ONE, 2021, 16, e0247310</i>	3.7	0
100	Multiscale Entropy Analysis of Heart Rate Variability in Neonatal Patients with and without Seizures. <i>Bioengineering, 2021, 8,</i>	5.3	1
99	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, 2021, 2021, 471-474</i>	0.9	0
98	Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses. <i>Frontiers in Veterinary Science, 2020, 7, 582759</i>	3.1	5
97	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, 2020, 56, 101666</i>	4.9	11
96	Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. <i>IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2417-2427</i>	7.2	5
95	Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments. <i>Frontiers in Neuroscience, 2019, 13, 1431</i>	5.1	8
94	Inter- and Intra-Species Communication of Emotion: Chemosignals as the Neglected Medium. <i>Animals, 2019, 9,</i>	3.1	13
93	Combining Electrodermal Activity and Speech Analysis towards a more Accurate Emotion Recognition System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 229-232</i>	0.9	6
92	Emotional Transfer in Human-Horse Interaction: New Perspectives on Equine Assisted Interventions. <i>Animals, 2019, 9,</i>	3.1	14
91	A Case for the Interspecies Transfer of Emotions: A Preliminary Investigation on How Humans Odors Modify Reactions of the Autonomic Nervous System in Horses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 522-525</i>	0.9	9
90	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, 2018, 2018, 498-501</i>	0.9	

89	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, 2017, 2017, 1583-1586</i>	0.9	
88	Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 1559-1562</i>	0.9	3
87	Applications of Heartbeat Complexity Analysis to Depression and Bipolar Disorder 2017 , 345-374		
86	Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study. <i>Journal of Affective Disorders, 2017, 209, 30-38</i>	6.6	12
85	Validation of smart textile electrodes for electrocardiogram monitoring in free-moving horses. <i>Journal of Veterinary Behavior: Clinical Applications and Research, 2017, 17, 19-23</i>	1.9	12
84	On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. <i>International Journal of Social Robotics, 2017, 9, 87-95</i>	4	9
83	The role of nonlinear coupling in Human-Horse Interaction: 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, 2017, 2017, 1320-1323</i>	0.9	6
82	Consistency and flexibility in solving spatial tasks: different horses show different cognitive styles. <i>Scientific Reports, 2017, 7, 16557</i>	4.9	12
81	Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime. <i>Scientific Reports, 2017, 7, 17920</i>	4.9	13
80	Instantaneous Assessment of Hedonic Olfactory Perception Using Heartbeat Nonlinear Dynamics: a Preliminary Study 2017 ,		3
79	Guest Editorial Sensor Informatics for Managing Mental Health. <i>IEEE Journal of Biomedical and Health Informatics, 2016, 20, 975-976</i>	7.2	
78	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4519-4522</i>	0.9	4
77	Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4519-4522</i>	0.9	7
76	Predicting Mood Changes in Bipolar Disorder through Heartbeat Nonlinear Dynamics. <i>IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1034-1043</i>	7.2	35
75	cvxEDA: A Convex Optimization Approach to Electrodermal Activity Processing. <i>IEEE Transactions on Biomedical Engineering, 2016, 63, 797-804</i>	5	145
74	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. <i>Electronics (Switzerland), 2016, 5, 46</i>	2.6	25
73	A Wearable System for the Evaluation of the Human-Horse Interaction: A Preliminary Study. <i>Electronics (Switzerland), 2016, 5, 63</i>	2.6	18
72	Quantitative heartbeat coupling measures in human-horse interaction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 2696-2699</i>	0.9	8

71	Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 298-301</i>	0.9	8
70	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, 2015, 2015, 4733-6</i>	0.9	3
69	Can a Humanoid Face be Expressive? A Psychophysiological Investigation. <i>Frontiers in Bioengineering and Biotechnology, 2015, 3, 64</i>	5.8	23
68	Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. <i>Frontiers in Computational Neuroscience, 2015, 9, 37</i>	3.5	13
67	A Novel Algorithm for Movement Artifact Removal in ECG Signals Acquired from Wearable Systems Applied to Horses. <i>PLoS ONE, 2015, 10, e0140783</i>	3.7	24
66	. <i>IEEE Transactions on Affective Computing, 2015, 6, 385-394</i>	5.7	108
65	Brain dynamics during emotion elicitation in healthy subjects: An EEG study 2015,		2
64	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, 2015, 2015, 5777-80</i>	0.9	10
63	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, 2015, 2015, 2283-6</i>	0.9	2
62	Predicting mood changes in bipolar disorder through heartbeat nonlinear dynamics: A preliminary study 2015,		4
61	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, 2015, 2015, 6110-3</i>	0.9	2
60	Removing movement artifacts from equine ECG recordings acquired with textile electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 1955-8</i>	0.9	5
59	. <i>IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1505-1517</i>	6.1	78
58	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, 2015, 19, 263-74</i>	7.2	48
57	Complexity index from a personalized wearable monitoring system for assessing remission in mental health. <i>IEEE Journal of Biomedical and Health Informatics, 2015, 19, 132-9</i>	7.2	100
56	Revealing real-time emotional responses: a personalized assessment based on heartbeat dynamics. <i>Scientific Reports, 2014, 4, 4998</i>	4.9	96
55	Design and preliminary affective characterization of a novel fabric-based tactile display 2014,		28
54	Advanced technology meets mental health: how smartphones, textile electronics, and signal processing can serve mental health monitoring, diagnosis, and treatment. <i>IEEE Pulse, 2014, 5, 56-9</i>	0.7	3

53	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, 1625-35	7.3	99
52	Inference of human affective states from psychophysiological measurements extracted under ecologically valid conditions. <i>Frontiers in Neuroscience</i> , 2014 , 8, 286	5.1	21
51	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
50	XIM-engine 2014 ,		11
49	A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders 2014 ,		12
48	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 International Conference</i> , 2014 , 2014, 1112-6	0.9	2
47	Characterization of behavioral activation in non-pathological subjects through Heart Rate Variability monovariate and multivariate multiscale entropy analysis 2014 ,		1
46	Electrodermal activity in bipolar patients during affective elicitation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1865-73	7.2	60
45	Temporal trends of neuro-autonomic complexity during severe episodes of bipolar disorders. <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, 2948-51	0.9	3
44	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
43	Mood states modulate complexity in heartbeat dynamics: A multiscale entropy analysis. <i>Europhysics Letters</i> , 2014 , 107, 18003	1.6	41
42	Poroelastic longitudinal wave equation for soft living tissues. <i>Journal of Biomechanics</i> , 2014 , 28, 29-37	0.3	1
41	Novel Spiking Neuron-Astrocyte Networks based on nonlinear transistor-like models of tripartite synapses. <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, 6559-62	0.9	8
40	Improving emotion recognition systems by embedding cardiorespiratory coupling. <i>Physiological Measurement</i> , 2013 , 34, 449-64	2.9	38
39	Eye gaze patterns in emotional pictures. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 705-715	3.7	33
38	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
37	Comparative 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
36	Advanced interfaces to stem the data deluge in mixed reality 2013 ,		10

35	The social perceptual salience effect. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013 , 39, 62-74	2.6	15
34	A sensing architecture for empathetic data systems 2013 ,		7
33	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
32	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
31	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
30	. <i>IEEE Transactions on Affective Computing</i> , 2012 , 3, 237-249	5.7	132
29	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
28	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis 2012 ,		4
27	Smart Textiles: Technology and Wireless System Network Applications. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012 , 127-158	2	2
26	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
25	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
24	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
23	Dominant Lyapunov exponent and approximate entropy in heart rate variability during emotional visual elicitation. <i>Frontiers in Neuroengineering</i> , 2012 , 5, 3		61
22	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis 2012 ,		9
21	Sensors for Wearable Systems 2011 , 3-25		8
20	Eye tracking and pupil size variation as response to affective stimuli: a preliminary study 2011 ,		14
19	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
18	Robust multiple cardiac arrhythmia detection through bispectrum analysis. <i>Expert Systems With Applications</i> , 2011 , 38, 6798-6804	7.8	41

17	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, 2011, 2011, 3724-7</i>	0.9	5
16	Electrodermal Responses Through Textile Electrodes. <i>Research Journal of Textile and Apparel, 2010, 14, 81-88</i>	1.1	3
15	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, 2010, 2010, 3598-601</i>	0.9	26
14	High frequency poroelastic waves in hydrogels. <i>Journal of the Acoustical Society of America, 2010, 127, 1197-207</i>	2.2	11
13	The contribution of the phase spectrum in automatic multiple cardiac arrhythmias recognition in wearable systems 2010,		2
12	Enabling technology for heart health wireless assistance 2010,		11
11	A multimodal transducer for cardiopulmonary activity monitoring in emergency. <i>IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 817-25</i>		41
10	Comparative evaluation of susceptibility to motion artifact in different wearable systems for monitoring respiratory rate. <i>IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 378-86</i>		66
9	An FPGA Based Arrhythmia Recognition System for Wearable Applications 2009,		9
8	Acoustic waves in hydrogels: A bi-phasic model for ultrasound tissue-mimicking phantom. <i>Materials Science and Engineering C, 2009, 29, 899-907</i>	8.3	10
7	Real-Time Discrimination of Multiple Cardiac Arrhythmias for Wearable Systems Based on Neural Networks 2008,		18
6	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. <i>International Journal of Telemedicine and Applications, 2008, 328597</i>	2.6	22
5	Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview 2007,		6
4	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, 2007, 2007, 2651-4</i>		18
3	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, 2007, 2007, 5716-9</i>		3
2	Performance analysis and early validation of a bi-modal ultrasound transducer. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, 2006, 1858-61</i>		1
1	New Ultrasound-Based Wearable System for Cardiac Monitoring 2006,		3