

Alberto Greco

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,879
citations

393982

19
h-index

301761

39
g-index

85
all docs

85
docs citations

85
times ranked

1794
citing authors

#	ARTICLE	IF	CITATIONS
1	cvxEDA: a Convex Optimization Approach to Electrodermal Activity Processing. IEEE Transactions on Biomedical Engineering, 2016, 63, 1-1.	2.5	253
2	Affective computing in virtual reality: emotion recognition from brain and heartbeat dynamics using wearable sensors. Scientific Reports, 2018, 8, 13657.	1.6	252
3	Recognizing Emotions Induced by Affective Sounds through Heart Rate Variability. IEEE Transactions on Affective Computing, 2015, 6, 385-394.	5.7	148
4	How the Autonomic Nervous System and Driving Style Change With Incremental Stressing Conditions During Simulated Driving. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1505-1517.	4.7	101
5	Electrodermal Activity in Bipolar Patients during Affective Elicitation. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1865-1873.	3.9	77
6	Arousal and Valence Recognition of Affective Sounds Based on Electrodermal Activity. IEEE Sensors Journal, 2017, 17, 716-725.	2.4	75
7	Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge. Scientific Reports, 2020, 10, 5406.	1.6	67
8	Real vs. immersive-virtual emotional experience: Analysis of psycho-physiological patterns in a free exploration of an art museum. PLoS ONE, 2019, 14, e0223881.	1.1	53
9	Time-Resolved Directional Brain-Heart Interplay Measurement Through Synthetic Data Generation Models. Annals of Biomedical Engineering, 2019, 47, 1479-1489.	1.3	47
10	Advances in Electrodermal Activity Processing with Applications for Mental Health. , 2016, , .		44
11	On the deconvolution analysis of electrodermal activity in bipolar patients. , 2012, 2012, 6691-4.		37
12	Promises and trust in human-robot interaction. Scientific Reports, 2021, 11, 9687.	1.6	35
13	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. Electronics (Switzerland), 2016, 5, 46.	1.8	34
14	Lateralization of directional brain-heart information transfer during visual emotional elicitation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R25-R38.	0.9	32
15	Emotional Transfer in Human-Horse Interaction: New Perspectives on Equine Assisted Interventions. Animals, 2019, 9, 1030.	1.0	32
16	Inference of human affective states from psychophysiological measurements extracted under ecologically valid conditions. Frontiers in Neuroscience, 2014, 8, 286.	1.4	28
17	Can a Humanoid Face be Expressive? A Psychophysiological Investigation. Frontiers in Bioengineering and Biotechnology, 2015, 3, 64.	2.0	28
18	Reliability of Lagged Poincaré Plot Parameters in Ultrashort Heart Rate Variability Series: Application on Affective Sounds. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 741-749.	3.9	26

#	ARTICLE	IF	CITATIONS
19	Assessing the Quality of Heart Rate Variability Estimated from Wrist and Finger PPG: A Novel Approach Based on Cross-Mapping Method. <i>Sensors</i> , 2020, 20, 3156.	2.1	26
20	Increased functional connectivity within alpha and theta frequency bands in dysphoria: A resting-state EEG study. <i>Journal of Affective Disorders</i> , 2021, 281, 199-207.	2.0	26
21	Acute Stress State Classification Based on Electrodermal Activity Modeling. <i>IEEE Transactions on Affective Computing</i> , 2023, 14, 788-799.	5.7	26
22	Assessment of muscle fatigue during isometric contraction using autonomic nervous system correlates. <i>Biomedical Signal Processing and Control</i> , 2019, 51, 42-49.	3.5	24
23	Functional Linear and Nonlinear Brain-Heart Interplay during Emotional Video Elicitation: A Maximum Information Coefficient Study. <i>Entropy</i> , 2019, 21, 892.	1.1	20
24	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 411-418.	2.7	19
25	Analysis of generic coupling between EEG activity and PETCO ₂ in free breathing and breath-hold tasks using Maximal Information Coefficient (MIC). <i>Scientific Reports</i> , 2018, 8, 4492.	1.6	18
26	Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments. <i>Frontiers in Neuroscience</i> , 2019, 13, 1431.	1.4	17
27	Electrodermal activity processing: A convex optimization approach. , 2014, 2014, 2290-3.		16
28	Force-Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach. <i>IEEE Transactions on Human-Machine Systems</i> , 2016, , 1-10.	2.5	16
29	EEG oscillations during caress-like affective haptic elicitation. <i>Psychophysiology</i> , 2018, 55, e13199.	1.2	15
30	Affective communication during bad news consultation. Effect on analogue patients' heart rate variability and recall. <i>Patient Education and Counseling</i> , 2018, 101, 1892-1899.	1.0	15
31	Towards a Contactless Stress Classification Using Thermal Imaging. <i>Sensors</i> , 2022, 22, 976.	2.1	15
32	A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders. , 2014, , .		14
33	Electrodermal activity analysis during affective haptic elicitation. , 2015, 2015, 5777-80.		13
34	On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. <i>International Journal of Social Robotics</i> , 2017, 9, 87-95.	3.1	12
35	Assessment of linear and nonlinear/complex heartbeat dynamics in subclinical depression (dysphoria). <i>Physiological Measurement</i> , 2018, 39, 034004.	1.2	12
36	Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2417-2427.	3.9	12

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37	Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. , 2016, 2016, 4519-4522.		11
38	Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses. Frontiers in Veterinary Science, 2020, 7, 582759.	0.9	11
39	Using blood data for the differential diagnosis and prognosis of motor neuron diseases: a new dataset for machine learning applications. Scientific Reports, 2021, 11, 3371.	1.6	11
40	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis. , 2012, , .		10
41	Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. , 2015, 2015, 298-301.		10
42	Cortical network and connectivity underlying hedonic olfactory perception. Journal of Neural Engineering, 2021, 18, 056050.	1.8	10
43	Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients. Journal of Psychiatric Research, 2017, 95, 179-188.	1.5	8
44	Classifying Affective Haptic Stimuli through Gender-Specific Heart Rate Variability Nonlinear Analysis. IEEE Transactions on Affective Computing, 2020, 11, 459-469.	5.7	8
45	Parasympathetic-Sympathetic Causal Interactions Assessed by Time-Varying Multivariate Autoregressive Modeling of Electrodermal Activity and Heart-Rate-Variability. IEEE Transactions on Biomedical Engineering, 2021, 68, 3019-3028.	2.5	8
46	EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. , 2018, 2018, 3060-3063.		7
47	Brain Dynamics During Arousal-Dependent Pleasant/Unpleasant Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect. IEEE Transactions on Affective Computing, 2021, 12, 417-428.	5.7	7
48	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis. , 2012, , .		6
49	Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. , 2017, 2017, 1559-1562.		5
50	Modeling for the Analysis of the EDA. , 2016, , 19-33.		5
51	Arousal recognition system based on heartbeat dynamics during auditory elicitation. , 2015, 2015, 6110-3.		4
52	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. , 2016, 2016, 399-402.		4
53	On the pleasantness of a haptic stimulation: How different textures can be recognized through heart rate variability nonlinear analysis. , 2016, 2016, 3560-3563.		4
54	Muscle fatigue assessment through electrodermal activity analysis during isometric contraction. , 2017, 2017, 398-401.		4

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55	Recognition of affective haptic stimuli conveyed by different fabrics using EEG-based sparse SVM. , 2017, , .		4
56	The Role of Haptic Stimuli on Affective Reading: a Pilot Study. , 2019, 2019, 4938-4941.		4
57	Towards a model of arousal change after affective word pronunciation based on electrodermal activity and speech analysis. Biomedical Signal Processing and Control, 2021, 67, 102517.	3.5	4
58	Linear and Nonlinear Quantitative EEG Analysis during Neutral Hypnosis following an Opened/Closed Eye Paradigm. Symmetry, 2021, 13, 1423.	1.1	4
59	Investigating Phasic Activity of Time-Varying High-Order Spectra: A Heartbeat Dynamics Study During Cold-Pressure Test. , 0, , .		4
60	Reliability of Pulse Rate Variability in Elderly Men and Women: an Application of Cross-Mapping Approach. , 2021, 2021, 492-495.		4
61	Discriminating Stress From Cognitive Load Using Contactless Thermal Imaging Devices. , 2021, 2021, 608-611.		4
62	Electroencephalographic spectral correlates of caress-like affective haptic stimuli. , 2015, 2015, 4733-6.		3
63	Heart rate variability analysis during muscle fatigue due to prolonged isometric contraction. , 2017, 2017, 1324-1327.		3
64	Instantaneous Assessment of Hedonic Olfactory Perception Using Heartbeat Nonlinear Dynamics: a Preliminary Study. , 2017, , .		3
65	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. , 2018, 2018, 231-234.		3
66	Linear and non linear measures of pupil size as a function of hypnotizability. Scientific Reports, 2021, 11, 5196.	1.6	3
67	Brain dynamics during emotion elicitation in healthy subjects: An EEG study. , 2015, , .		2
68	On the tridimensional estimation of the gaze point by a stereoscopic wearable eye tracker. , 2015, 2015, 2283-6.		2
69	Validation of instantaneous bispectral high-frequency power of heartbeat dynamics as a marker of cardiac vagal activity. , 2017, 2017, 3765-3768.		2
70	Recognizing AR-guided manual tasks through autonomic nervous system correlates: a preliminary study. , 2020, , .		2
71	Bioelectric Impedance Analysis Test Improves the Detection of Prostate Cancer in Biopsy Candidates: A Multifeature Decision Support System. Frontiers in Oncology, 2021, 11, 555277.	1.3	2
72	Valence-dependent changes in visual arousing elicitation: An exploratory study in EEG gamma oscillations. , 2016, 2016, 4555-4558.		1

#	ARTICLE	IF	CITATIONS
73	Investigating mechanical properties of a fabric-based affective haptic display through electrodermal activity analysis. , 2016, 2016, 407-410.		1
74	Electrodermal Phenomena and Recording Techniques. , 2016, , 1-17.		1
75	Exploratory analysis of nonlinear coupling between EEG global field power and end-tidal carbon dioxide in free breathing and breath-hold tasks. , 2016, 2016, 728-731.		1
76	Data Processing and Wearable Systems for Effective Human Monitoring. Electronics (Switzerland), 2019, 8, 1003.	1.8	1
77	A preliminary study on parasympathetic-sympathetic interaction through the analysis of heart rate variability and electrodermal activity. , 2020, , .		1
78	Classifying human motor imagery abilities from heart rate variability analysis: a preliminary study. , 2020, , .		1
79	Emotions and Mood States: Modeling, Elicitation, and Recognition. , 2016, , 45-54.		0
80	Experimental Applications on Multi-Sensory Affective Stimulation. , 2016, , 55-109.		0
81	Monitoring voluntary blink magnitude through a wearable eye-tracking system: A preliminary study. , 2017, 2017, 1583-1586.		0
82	Nonlinear analysis of heart rate variability for the assessment of Dysphoria. , 2017, 2017, 3170-3173.		0
83	Quantifying multidimensional control mechanisms of cardiovascular dynamics during multiple concurrent stressors. Medical and Biological Engineering and Computing, 2021, 59, 775-785.	1.6	0