# Enzo Pasquale Scilingo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8420503/publications.pdf

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| 180 | 5,570 | 87723 38 | 98622 67 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 181 | 181 | 181 | 5208 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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 | Wearable, Redundant Fabric-Based Sensor Arrays for Reconstruction of Body Segment Posture. IEEE Sensors Journal, 2004, 4, 807-818. | 2.4 | 221 |
| 4 | Performance Evaluation of Sensing Fabrics for Monitoring Physiological and Biomechanical Variables. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 345-352. | 3.6 | 204 |
| 5 | The Role of Nonlinear Dynamics in Affective Valence and Arousal Recognition. IEEE Transactions on Affective Computing, 2012, 3, 237-249. | 5.7 | 186 |
| 6 | Strain Sensing Fabric for Hand Posture and Gesture Monitoring. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 372-381. | 3.6 | 180 |
| 7 | Strain-sensing fabrics for wearable kinaesthetic-like systems. IEEE Sensors Journal, 2003, 3, 460-467. | 2.4 | 176 |
| 8 | Haptic discrimination of softness in teleoperation: the role of the contact area spread rate. IEEE Transactions on Automation Science and Engineering, 2000, 16, 496-504. | 2.4 | 171 |
| 9 | Revealing Real-Time Emotional Responses: a Personalized Assessment based on Heartbeat Dynamics. Scientific Reports, 2014, 4, 4998. | 1.6 | 169 |
| 10 | The Effect of Visual Experience on the Development of Functional Architecture in hMT+. Cerebral Cortex, 2007, 17, 2933-2939. | 1.6 | 163 |
| 11 | Recognizing Emotions Induced by Affective Sounds through Heart Rate Variability. IEEE Transactions on Affective Computing, 2015, 6, 385-394. | 5.7 | 148 |
| 12 | Complexity Index From a Personalized Wearable Monitoring System for Assessing Remission in Mental Health. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 132-139. | 3.9 | 136 |
| 13 | Wearable Monitoring for Mood Recognition in Bipolar Disorder Based on History-Dependent Long-Term Heart Rate Variability Analysis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1625-1635. | 3.9 | 127 |
| 14 | 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 |
| 15 | A synergy-based hand control is encoded in human motor cortical areas. ELife, 2016, 5, . | 2.8 | 98 |
| 16 | Rendering Softness: Integration of Kinesthetic and Cutaneous Information in a Haptic Device. IEEE Transactions on Haptics, 2010, 3, 109-118. | 1.8 | 94 |
| 17 | Dominant Lyapunov exponent and approximate entropy in heart rate variability during emotional visual elicitation. Frontiers in Neuroengineering, 2012, 5, 3. | 4.8 | 86 |
| 18 | Comparative Evaluation of Susceptibility to Motion Artifact in Different Wearable Systems for Monitoring Respiratory Rate. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 378-386. | 3.6 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mood recognition in bipolar patients through the PSYCHE platform: Preliminary evaluations and perspectives. Artificial Intelligence in Medicine, 2013, 57, 49-58. | 3.8 | 82 |
| 20 | Electrodermal Activity in Bipolar Patients during Affective Elicitation. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1865-1873. | 3.9 | 77 |
| 21 | Arousal and Valence Recognition of Affective Sounds Based on Electrodermal Activity. IEEE Sensors Journal, 2017, 17, 716-725. | 2.4 | 75 |
| 22 | Point-Process Nonlinear Models With Laguerre and Volterra Expansions: Instantaneous Assessment of Heartbeat Dynamics. IEEE Transactions on Signal Processing, 2013, 61, 2914-2926. | 3.2 | 71 |
| 23 | 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 |
| 24 | Tactile flow explains haptic counterparts of common visual illusions. Brain Research Bulletin, 2008, 75, 737-741. | 1.4 | 60 |
| 25 | Characterization of Depressive States in Bipolar Patients Using Wearable Textile Technology and Instantaneous Heart Rate Variability Assessment. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 263-274. | 3.9 | 58 |
| 26 | Oscillations of Heart Rate and Respiration Synchronize During Affective Visual Stimulation. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 683-690. | 3.6 | 56 |
| 27 | Inhomogeneous point-process entropy: An instantaneous measure of complexity in discrete systems. Physical Review E, 2014, 89, 052803. | 0.8 | 53 |
| 28 | 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 |
| 29 | Robust multiple cardiac arrhythmia detection through bispectrum analysis. Expert Systems With Applications, 2011, 38, 6798-6804. | 4.4 | 52 |
| 30 | Eye gaze patterns in emotional pictures. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 705-715. | 3.3 | 51 |
| 31 | Predicting Mood Changes in Bipolar Disorder Through Heartbeat Nonlinear Dynamics. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1034-1043. | 3.9 | 51 |
| 32 | Polymer based interfaces as bioinspired â€˜smart skinsâ€™. Advances in Colloid and Interface Science, 2005, 116, 165-178. | 7.0 | 50 |
| 33 | Speech analysis for mood state characterization in bipolar patients. , 2012, 2012, 2104-7. | | 50 |
| 34 | A novel EDA glove based on textile-integrated electrodes for affective computing. Medical and Biological Engineering and Computing, 2012, 50, 1163-1172. | 1.6 | 49 |
| 35 | A Multimodal Transducer for Cardiopulmonary Activity Monitoring in Emergency. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 817-825. | 3.6 | 47 |
| 36 | Mood states modulate complexity in heartbeat dynamics: A multiscale entropy analysis. Europhysics Letters, 2014, 107, 18003. | 0.7 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Time-Resolved Directional Brainâ€“Heart Interplay Measurement Through Synthetic Data Generation Models. Annals of Biomedical Engineering, 2019, 47, 1479-1489. | 1.3 | 47 |
| 38 | Improving emotion recognition systems by embedding cardiorespiratory coupling. Physiological Measurement, 2013, 34, 449-464. | 1.2 | 44 |
| 39 | Advances in Electrodermal Activity Processing with Applications for Mental Health. , 2016, , . | | 44 |
| 40 | Low-error digital hardware implementation of artificial neuron activation functions and their derivative. Microprocessors and Microsystems, 2011, 35, 557-567. | 1.8 | 42 |
| 41 | Point-process Nonlinear Autonomic Assessment of Depressive States in Bipolar Patients. Methods of Information in Medicine, 2014, 53, 296-302. | 0.7 | 37 |
| 42 | Smartphone Application for the Analysis of Prosodic Features in Running Speech with a Focus on Bipolar Disorders: System Performance Evaluation and Case Study. Sensors, 2015, 15, 28070-28087. | 2.1 | 36 |
| 43 | Sensing Glove for Brain Studies: Design and Assessment of Its Compatibility for fMRI With a Robust Test. IEEE/ASME Transactions on Mechatronics, 2008, 13, 345-354. | 3.7 | 35 |
| 44 | Promises and trust in humanâ€“robot interaction. Scientific Reports, 2021, 11, 9687. | 1.6 | 35 |
| 45 | Electromagnetic Modeling and Design of Haptic Interface Prototypes Based on Magnetorheological Fluids. IEEE Transactions on Magnetics, 2007, 43, 3586-3600. | 1.2 | 34 |
| 46 | Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. Electronics (Switzerland), 2016, 5, 46. | 1.8 | 34 |
| 47 | A nonlinear heartbeat dynamics model approach for personalized emotion recognition. , 2013, 2013, 2579-82. | | 32 |
| 48 | A Novel Algorithm for Movement Artifact Removal in ECG Signals Acquired from Wearable Systems Applied to Horses. PLoS ONE, 2015, 10, e0140783. | 1.1 | 32 |
| 49 | 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 |
| 50 | Emotional Transfer in Humanâ€“Horse Interaction: New Perspectives on Equine Assisted Interventions. Animals, 2019, 9, 1030. | 1.0 | 32 |
| 51 | Analysis of speech features and personality traits. Biomedical Signal Processing and Control, 2019, 51, 1-7. | 3.5 | 29 |
| 52 | Towards a smart glove: Arousal recognition based on textile Electrodermal Response. , 2010, 2010, 3598-601. | | 28 |
| 53 | Automatic analysis of speech F0 contour for the characterization of mood changes in bipolar patients. Biomedical Signal Processing and Control, 2015, 17, 29-37. | 3.5 | 28 |
| 54 | A Wearable System for the Evaluation of the Human-Horse Interaction: A Preliminary Study. Electronics (Switzerland), 2016, 5, 63. | 1.8 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Wearable System-on-a-Chip UWB Radar for Health Care and its Application to the Safety Improvement of Emergency Operators. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2651-4. | 0.5 | 26 |
| 56 | Assessment of spontaneous cardiovascular oscillations in Parkinson's disease. Biomedical Signal Processing and Control, 2016, 26, 80-89. | 3.5 | 26 |
| 57 | Reliability of Lagged PoincarÃ© 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 |
| 58 | Assessing the Quality of Heart Rate Variability Estimated from Wrist and Finger PPG: A Novel Approach Based on Cross-Mapping Method. Sensors, 2020, 20, 3156. | 2.1 | 26 |
| 59 | Acute Stress State Classification Based on Electrodermal Activity Modeling. IEEE Transactions on Affective Computing, 2023, 14, 788-799. | 5.7 | 26 |
| 60 | Assessment of muscle fatigue during isometric contraction using autonomic nervous system correlates. Biomedical Signal Processing and Control, 2019, 51, 42-49. | 3.5 | 24 |
| 61 | Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime. Scientific Reports, 2017, 7, 17920. | 1.6 | 23 |
| 62 | Eye tracking and pupil size variation as response to affective stimuli: a preliminary study. , 2011, , . | | 21 |
| 63 | Nonlinear digital signal processing in mental health: characterization of major depression using instantaneous entropy measures of heartbeat dynamics. Frontiers in Physiology, 2015, 6, 74. | 1.3 | 21 |
| 64 | On the Time-Invariance Properties of Upper Limb Synergies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1397-1406. | 2.7 | 21 |
| 65 | Mind-body relationships in elite apnea divers during breath holding: a study of autonomic responses to acute hypoxemia. Frontiers in Neuroengineering, 2012, 5, 4. | 4.8 | 20 |
| 66 | Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study. Journal of Affective Disorders, 2017, 209, 30-38. | 2.0 | 20 |
| 67 | Functional Linear and Nonlinear Brainâ€“Heart Interplay during Emotional Video Elicitation: A Maximum Information Coefficient Study. Entropy, 2019, 21, 892. | 1.1 | 20 |
| 68 | Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 411-418. | 2.7 | 19 |
| 69 | Recent Advances on Wearable Electronics and Embedded Computing Systems for Biomedical Applications. Electronics (Switzerland), 2017, 6, 12. | 1.8 | 18 |
| 70 | Analysis of generic coupling between EEG activity and PETCO2 in free breathing and breath-hold tasks using Maximal Information Coefficient (MIC). Scientific Reports, 2018, 8, 4492. | 1.6 | 18 |
| 71 | A new fabric-based softness display. , 2010, , . | | 17 |
| 72 | Validation of smart textile electrodes for electrocardiogram monitoring in free-moving horses. Journal of Veterinary Behavior: Clinical Applications and Research, 2017, 17, 19-23. | 0.5 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments. Frontiers in Neuroscience, 2019, 13, 1431. | 1.4 | 17 |
| 74 | Forceâ€“Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach. IEEE Transactions on Human-Machine Systems, 2016, , 1-10. | 2.5 | 16 |
| 75 | The social perceptual salience effect.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 62-74. | 0.7 | 15 |
| 76 | Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. Frontiers in Computational Neuroscience, 2015, 9, 37. | 1.2 | 15 |
| 77 | EEG oscillations during caressâ€like affective haptic elicitation. Psychophysiology, 2018, 55, e13199. | 1.2 | 15 |
| 78 | Affective communication during bad news consultation. Effect on analogue patientsâ€™ heart rate variability and recall. Patient Education and Counseling, 2018, 101, 1892-1899. | 1.0 | 15 |
| 79 | Towards a Contactless Stress Classification Using Thermal Imaging. Sensors, 2022, 22, 976. | 2.1 | 15 |
| 80 | Using Laguerre expansion within point-process models of heartbeat dynamics: A comparative study. , 2012, 2012, 29-32. | | 14 |
| 81 | Comparitive study on photometric normalization algorithms for an innovative, robust and real-time eye gaze tracker. Journal of Real-Time Image Processing, 2013, 8, 21-33. | 2.2 | 14 |
| 82 | A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders. , 2014, , . | | 14 |
| 83 | A Case for the Interspecies Transfer of Emotions: A Preliminary Investigation on How Humans Odors Modify Reactions of the Autonomic Nervous System in Horses. , 2018, 2018, 522-525. | | 14 |
| 84 | Electrodermal activity analysis during affective haptic elicitation. , 2015, 2015, 5777-80. | | 13 |
| 85 | Multichannel Complexity Index (MCI) for a multi-organ physiological complexity assessment. Physica A: Statistical Mechanics and Its Applications, 2019, 530, 121543. | 1.2 | 13 |
| 86 | A protocol for a multicentre, parallel-group, pragmatic randomised controlled trial to evaluate the NEVERMIND system in preventing and treating depression in patients with severe somatic conditions. BMC Psychiatry, 2020, 20, 93. | 1.1 | 13 |
| 87 | Autonomic effects of cognitive reappraisal and acceptance in social anxiety: Evidence for common and distinct pathways for parasympathetic reactivity. Journal of Anxiety Disorders, 2014, 28, 795-803. | 1.5 | 12 |
| 88 | Voice quality in patients suffering from bipolar disease. , 2015, 2015, 6106-9. | | 12 |
| 89 | Quantitative heartbeat coupling measures in human-horse interaction. , 2016, 2016, 2696-2699. | | 12 |
| 90 | On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. International Journal of Social Robotics, 2017, 9, 87-95. | 3.1 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Assessment of linear and nonlinear/complex heartbeat dynamics in subclinical depression (dysphoria). Physiological Measurement, 2018, 39, 034004. | 1.2 | 12 |
| 92 | Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2417-2427. | 3.9 | 12 |
| 93 | Motor imagery effectiveness for mirror reversed movements. Cognitive, Affective and Behavioral Neuroscience, 2011, 11, 22-31. | 1.0 | 11 |
| 94 | Electroactive polymer patches for wearable haptic interfaces. , 2011, 2011, 8369-72. | | 11 |
| 95 | Novel Spiking Neuron-Astrocyte Networks based on nonlinear transistor-like models of tripartite synapses. , 2013, 2013, 6559-62. | | 11 |
| 96 | Analysis of running speech for the characterization of mood state in bipolar patients. , 2015, , . | | 11 |
| 97 | Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. , 2016, 2016, 4519-4522. | | 11 |
| 98 | Combining Electrodermal Activity and Speech Analysis towards a more Accurate Emotion Recognition System. , 2019, 2019, 229-232. | | 11 |
| 99 | Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses. Frontiers in Veterinary Science, 2020, 7, 582759. | 0.9 | 11 |
| 100 | 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 |
| 101 | Integrating Two Haptic devices for Performance Enhancement. , 2007, , . | | 10 |
| 102 | Sensors for Wearable Systems. , 2011, , 3-25. | | 10 |
| 103 | Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis. , 2012, , . | | 10 |
| 104 | Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. , 2015, 2015, 298-301. | | 10 |
| 105 | Cortical network and connectivity underlying hedonic olfactory perception. Journal of Neural Engineering, 2021, 18, 056050. | 1.8 | 10 |
| 106 | Automated Recognition of Sleep Arousal Using Multimodal and Personalized Deep Ensembles of Neural Networks. , 0, , . | | 9 |
| 107 | Electroactive fabrics and wearable manâ€“machine interfaces. , 2005, , 59-80. | | 8 |
| 108 | Wearable kinesthetic systems and emerging technologies in actuation for upperlimb neurorehabilitation. , 2009, 2009, 6830-3. | | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients. Journal of Psychiatric Research, 2017, 95, 179-188. | 1.5 | 8 |
| 110 | The role of nonlinear coupling in Human-Horse Interaction: A preliminary study. , 2017, 2017, 1320-1323. | | 8 |
| 111 | Classifying Affective Haptic Stimuli through Gender-Specific Heart Rate Variability Nonlinear Analysis. IEEE Transactions on Affective Computing, 2020, 11, 459-469. | 5.7 | 8 |
| 112 | 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 |
| 113 | Robust Head Mounted Wearable Eye Tracking System for Dynamical Calibration. Journal of Eye Movement Research, 2015, 8, . | 0.5 | 8 |
| 114 | Maternal Singing but Not Speech Enhances Vagal Activity in Preterm Infants during Hospitalization: Preliminary Results. Children, 2022, 9, 140. | 0.6 | 8 |
| 115 | EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. , 2018, 2018, 3060-3063. | | 7 |
| 116 | Smart textiles biotechnology for electrocardiogram monitoring in horses during exercise on treadmill: Validation tests. Equine Veterinary Journal, 2021, 53, 373-378. | 0.9 | 7 |
| 117 | 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 |
| 118 | The NEVERMIND e-health system in the treatment of depressive symptoms among patients with severe somatic conditions: A multicentre, pragmatic randomised controlled trial. EClinicalMedicine, 2022, 48, 101423. | 3.2 | 7 |
| 119 | Wearable kinesthetic system for joint knee flexion-extension monitoring in gait analysis. , 2006, 2006, 1497-500. | | 6 |
| 120 | Advanced modelling and preliminary psychophysical experiments for a free-hand haptic device. , 2006, , . | | 6 |
| 121 | Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis. , 2012, , . | | 6 |
| 122 | Predicting mood changes in bipolar disorder through heartbeat nonlinear dynamics: A preliminary study. , 2015, , . | | 6 |
| 123 | Removing movement artifacts from equine ECG recordings acquired with textile electrodes. , 2015, 2015, 1955-8. | | 6 |
| 124 | Strain-amplified electroactive polymer actuator for haptic interfaces. , 2001, , . | | 5 |
| 125 | New Ultrasound-Based Wearable System for Cardiac Monitoring. , 2006, , . | | 5 |
| 126 | Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. , 2017, 2017, 1559-1562. | | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | A Compatible Electrocutaneous Display for functional Magnetic Resonance Imaging application. , 2006, 2006, 1021-4. | | 4 |
| 128 | Advanced Technology Meets Mental Health: How smartphones, textile electronics, and signal processing can serve mental health monitoring, diagnosis, and treatment. IEEE Pulse, 2014, 5, 56-59. | 0.1 | 4 |
| 129 | Arousal recognition system based on heartbeat dynamics during auditory elicitation. , 2015, 2015, 6110-3. | | 4 |
| 130 | Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. , 2016, 2016, 399-402. | | 4 |
| 131 | On the pleasantness of a haptic stimulation: How different textures can be recognized through heart rate variability nonlinear analysis. , 2016, 2016, 3560-3563. | | 4 |
| 132 | Muscle fatigue assessment through electrodermal activity analysis during isometric contraction. , 2017, 2017, 398-401. | | 4 |
| 133 | Recognition of affective haptic stimuli conveyed by different fabrics sing EEG-based sparse SVM. , 2017, , . | | 4 |
| 134 | The Role of Haptic Stimuli on Affective Reading: a Pilot Study. , 2019, 2019, 4938-4941. | | 4 |
| 135 | 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 |
| 136 | Linear and Nonlinear Quantitative EEG Analysis during Neutral Hypnosis following an Opened/Closed Eye Paradigm. Symmetry, 2021, 13, 1423. | 1.1 | 4 |
| 137 | The Role of Tactile Flow in Processing Dynamic Haptic Stimuli. Springer Tracts in Advanced Robotics, 2008, , 39-60. | 0.3 | 4 |
| 138 | Reliability of Pulse Rate Variability in Elderly Men and Women: an Application of Cross-Mapping Approach. , 2021, 2021, 492-495. | | 4 |
| 139 | Discriminating Stress From Cognitive Load Using Contactless Thermal Imaging Devices. , 2021, 2021, 608-611. | | 4 |
| 140 | Maximal-radius multiscale entropy of cardiovascular variability: A promising biomarker of pathological mood states in bipolar disorders. , 2014, 2014, 6663-6. | | 3 |
| 141 | Temporal trends of neuro-autonomic complexity during severe episodes of bipolar disorders. , 2014, 2014, 2948-51. | | 3 |
| 142 | Electroencephalographic spectral correlates of caress-like affective haptic stimuli. , 2015, 2015, 4733-6. | | 3 |
| 143 | Heart rate variability analysis during muscle fatigue due to prolonged isometric contraction. , 2017, 2017, 1324-1327. | | 3 |
| 144 | Self-reported well-being score modelling and prediction: Proof-of-concept of an approach based on linear dynamic systems. , 2017, 2017, 2205-2208. | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. , 2018, 2018, 231-234. | | 3 |
| 146 | Smart Textiles: Technology and Wireless System Network Applications. Springer Series on Chemical Sensors and Biosensors, 2012, , 127-158. | 0.5 | 2 |
| 147 | Brain dynamics during emotion elicitation in healthy subjects: An EEG study. , 2015, , . | | 2 |
| 148 | On the tridimensional estimation of the gaze point by a stereoscopic wearable eye tracker. , 2015, 2015, 2283-6. | | 2 |
| 149 | Validation of instantaneous bispectral high-frequency power of heartbeat dynamics as a marker of cardiac vagal activity. , 2017, 2017, 3765-3768. | | 2 |
| 150 | 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 |
| 151 | FMRI Compatible Sensing Glove for Hand Gesture Monitoring. Springer Series on Touch and Haptic Systems, 2012, , 215-228. | 0.2 | 2 |
| 152 | Complexity modulation in heart rate variability during pathological mental states of bipolar disorders. , 2014, , . | | 1 |
| 153 | Valence-dependent changes in visual arousing elicitation: An exploratory study in EEG gamma oscillations. , 2016, 2016, 4555-4558. | | 1 |
| 154 | Investigating mechanical properties of a fabric-based affective haptic display through electrodermal activity analysis. , 2016, 2016, 407-410. | | 1 |
| 155 | Electrodermal Phenomena and Recording Techniques. , 2016, , 1-17. | | 1 |
| 156 | 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 |
| 157 | Exploiting Physiological Sensors and Biosignal Processing to Enhance Monitoring Care in Mental Health. Scalable Computing and Communications, 2017, , 515-550. | 0.5 | 1 |
| 158 | Refined Generalized Multivariate Multiscale Fuzzy Entropy: A Preliminary Study on Multichannel Physiological Complexity During Postural Changes. , 2018, , . | | 1 |
| 159 | A preliminary study on parasympathetic-sympathetic interaction through the analysis of heart rate variability and electrodermal activity. , 2020, , . | | 1 |
| 160 | Classifying human motor imagery abilities from heart rate variability analysis: a preliminary study. , 2020, , . | | 1 |
| 161 | Experimental Evidences on Healthy Subjects and Bipolar Patients. Series in Bioengineering, 2014, , 85-123. | 0.3 | 1 |
| 162 | Emotions and Mood States: Modeling, Elicitation, and Classification. Series in Bioengineering, 2014, , 9-21. | 0.3 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Introduction to Advances in Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition. Series in Bioengineering, 2014, , 3-8. | 0.3 | 1 |
| 164 | Tracking instantaneous entropy in heartbeat dynamics through inhomogeneous point-process nonlinear models. , 2014, 2014, 6369-72. | | 0 |
| 165 | Defining an instantaneous complexity measure for heartbeat dynamics: The inhomogeneous point-process entropy. , 2014, , . | | 0 |
| 166 | Changes in instantaneous complex dynamics during exercise in Chronic Mountain Sickness. , 2015, , . | | 0 |
| 167 | Guest Editorial Sensor Informatics for Managing Mental Health. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 975-976. | 3.9 | 0 |
| 168 | Emotions and Mood States: Modeling, Elicitation, and Recognition. , 2016, , 45-54. | | 0 |
| 169 | Experimental Applications on Multi-Sensory Affective Stimulation. , 2016, , 55-109. | | 0 |
| 170 | Stochastic modeling of spontaneous bursting activity to simulate neural responses of in-vitro networks on multielectrode arrays. , 2016, 2016, 1616-1619. | | 0 |
| 171 | Applications of Heartbeat Complexity Analysis to Depression and Bipolar Disorder. , 2017, , 345-374. | | 0 |
| 172 | Time-Varying Cardiovascular Complexity with Focus on Entropy and Lyapunov Exponents. , 2017, , 233-256. | | 0 |
| 173 | Nonlinear analysis of heart rate variability for the assessment of Dysphoria. , 2017, 2017, 3170-3173. | | 0 |
| 174 | Real-time Evaluation of ECG Acquisition Systems through Signal Quality Assessment in Horses during Submaximal Treadmill Test. , 2018, 2018, 498-501. | | 0 |
| 175 | Quantifying multidimensional control mechanisms of cardiovascular dynamics during multiple concurrent stressors. Medical and Biological Engineering and Computing, 2021, 59, 775-785. | 1.6 | 0 |
| 176 | Validation of a Virtual Reality Environment to Study Anticipatory Modulation of Digit Forces and Position. Lecture Notes in Computer Science, 2010, , 136-143. | 1.0 | 0 |
| 177 | Advanced Signal Processing and Modeling for ANS Data. Series in Bioengineering, 2014, , 45-82. | 0.3 | 0 |
| 178 | Data Acquisition: Experimental Procedures and Wearable Monitoring Systems. Series in Bioengineering, 2014, , 25-43. | 0.3 | 0 |
| 179 | Conclusions and Discussion on Mood and Emotional-State Recognition Using the Autonomic Nervous System Dynamics. Series in Bioengineering, 2014, , 127-138. | 0.3 | 0 |
| 180 | Activation of brain-heart axis during REM sleep: a trigger for dreaming. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R951-R959. | 0.9 | 0 |