

Marco Di Rienzo

List of Publications by Year in descending order

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Version: 2024-02-01

143
papers

7,271
citations

81434

41
h-index

68831

81
g-index

143
all docs

143
docs citations

143
times ranked

6254
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Multi-Site Pulse Transit Times, Beat-to-Beat Blood Pressure, and Isovolumic Contraction Time at Rest and Under Stressors. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 561-571. | 3.9 | 6 |
| 2 | Can Seismocardiogram Fiducial Points Be Used for the Routine Estimation of Cardiac Time Intervals in Cardiac Patients?. Frontiers in Physiology, 2022, 13, 825918. | 1.3 | 5 |
| 3 | Heart Rate Variability from Wearable Photoplethysmography Systems: Implications in Sleep Studies at High Altitude. Sensors, 2022, 22, 2891. | 2.1 | 6 |
| 4 | A meta-learning algorithm for respiratory flow prediction from FBG-based wearables in unrestrained conditions. Artificial Intelligence in Medicine, 2022, 130, 102328. | 3.8 | 7 |
| 5 | Wearables for Life in Space. , 2021, , 463-486. | | 1 |
| 6 | Wearable and Nearable Biosensors and Systems for Healthcare. Sensors, 2021, 21, 1291. | 2.1 | 7 |
| 7 | ESC working group on e-cardiology position paper: use of commercially available wearable technology for heart rate and activity tracking in primary and secondary cardiovascular prevention in collaboration with the European Heart Rhythm Association, European Association of Preventive Cardiology, Association of Cardiovascular Nursing and Allied Professionals, Patient Forum, and the Digital Health Committee. European Heart Journal Digital Health, 2021, 2, 49-59. | 0.7 | 44 |
| 8 | Respiratory rate monitoring of video terminal operators based on fiber optic technology. , 2021, , . | | 1 |
| 9 | Architecture of a Wireless Wearable Body Area Sensor Network for Work Risk Assessment. , 2021, , . | | 1 |
| 10 | A Wearable System Based on Flexible Sensors for Unobtrusive Respiratory Monitoring in Occupational Settings. IEEE Sensors Journal, 2021, 21, 14369-14378. | 2.4 | 32 |
| 11 | Evolving fuzzy-neural paradigm applied to the recognition and removal of artefactual beats in continuous seismocardiogram recordings. Evolving Systems, 2020, 11, 443-452. | 2.4 | 7 |
| 12 | A Test Bench to Assess Systems for Respiratory Monitoring of Workers. , 2020, , . | | 1 |
| 13 | A New Smart-Fabric based Body Area Sensor Network for Work Risk Assessment. , 2020, , . | | 7 |
| 14 | Influence of short-term oscillations on the PTT-SBP relationship. , 2020, , . | | 0 |
| 15 | SeisMote: A Multi-Sensor Wireless Platform for Cardiovascular Monitoring in Laboratory, Daily Life, and Telemedicine. Sensors, 2020, 20, 680. | 2.1 | 30 |
| 16 | Closed-Loop Cardiovascular Interactions and the Baroreflex Cardiac Arm: Modulations Over the 24 h and the Effect of Hypertension. Frontiers in Physiology, 2019, 10, 477. | 1.3 | 12 |
| 17 | Comparison of Different Methods for Estimating Cardiac Timings: A Comprehensive Multimodal Echocardiography Investigation. Frontiers in Physiology, 2019, 10, 1057. | 1.3 | 47 |
| 18 | Acute Fingolimod Effects on Baroreflex and Cardiovascular Autonomic Control in Multiple Sclerosis. Journal of Central Nervous System Disease, 2019, 11, 117957351984994. | 0.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Development of a smart garment for the assessment of cardiac mechanical performance and other vital signs during sleep in microgravity. <i>Sensors and Actuators A: Physical</i> , 2018, 274, 19-27. | 2.0 | 29 |
| 20 | Cardiac, Respiratory and Postural Influences on Venous Return of Internal Jugular and Vertebral Veins. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1195-1204. | 0.7 | 10 |
| 21 | Applying the EFuNN Evolving Paradigm to the Recognition of Artefactual Beats in Continuous Seismocardiogram Recordings. <i>Communications in Computer and Information Science</i> , 2017, , 256-264. | 0.4 | 2 |
| 22 | Self-Similarity and Detrended Fluctuation Analysis of Cardiovascular Signals. , 2017, , 197-232. | | 8 |
| 23 | An algorithm for the beat-to-beat assessment of cardiac mechanics during sleep on Earth and in microgravity from the seismocardiogram. <i>Scientific Reports</i> , 2017, 7, 15634. | 1.6 | 25 |
| 24 | 6-Month Effects of Fingolimod on Indexes of Cardiovascular Autonomic Control in Multiple Sclerosis. <i>Journal of the American College of Cardiology</i> , 2016, 68, 2027-2029. | 1.2 | 6 |
| 25 | An ICT and mobile health integrated approach to optimize patients' education on hypertension and its management by physicians: The Patients Optimal Strategy of Treatment(POST) pilot study. , 2016, 2016, 517-520. | | 24 |
| 26 | Response to letter regarding article "Fingolimod effects on left ventricular function in multiple sclerosis". <i>Multiple Sclerosis Journal</i> , 2016, 22, 708-709. | 1.4 | 0 |
| 27 | Fingolimod effects on left ventricular function in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 201-211. | 1.4 | 23 |
| 28 | Wearable monitoring: A project for the unobtrusive investigation of sleep physiology aboard the International Space Station. , 2015, , . | | 4 |
| 29 | Spectral and fractal structures of heart rate variability in coronary artery disease patients without myocardial infarction. , 2015, , . | | 0 |
| 30 | Sex and Acetazolamide Effects on Chemoreflex and Periodic Breathing During Sleep at Altitude. <i>Chest</i> , 2015, 147, 120-131. | 0.4 | 46 |
| 31 | Aortic-finger pulse transit time vs. R-derived Pulse Arrival Time: A beat-to-beat assessment. , 2015, , . | | 3 |
| 32 | Guest Editorial Unobtrusive Assessment of the Mechanical Aspects of Cardiovascular Function. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1413-1413. | 3.9 | 0 |
| 33 | Use of seismocardiogram for the beat-to-beat assessment of the Pulse Transit Time: A pilot study. , 2015, 2015, 7184-7. | | 17 |
| 34 | Blood pressure changes after high- and low-salt diets: are intermittent arm measures and beat-by-beat finger measures equivalent?. <i>Journal of Human Hypertension</i> , 2015, 29, 430-435. | 1.0 | 2 |
| 35 | Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015, 36, 755-765. | 1.2 | 23 |
| 36 | Ballistocardiography and Seismocardiography: A Review of Recent Advances. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1414-1427. | 3.9 | 529 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A textile-based wearable system for the prolonged assessment of cardiac mechanics in daily life. , 2014, 2014, 6896-8. | | 16 |
| 38 | Comparison between permutation and coarse-grained entropy approaches for the assessment of short-term complexity of heart period variability. , 2014, , . | | 0 |
| 39 | Wearable seismocardiography for the beat-to-beat assessment of cardiac intervals during sleep. , 2014, 2014, 6089-91. | | 8 |
| 40 | Characterization of apnea events in sleep breathing disorder by local assessment of the fractal dimension of heart rate. , 2014, , . | | 0 |
| 41 | Fractal characteristics of blood pressure and heart rate from ambulatory blood pressure monitored over 24 hours. , 2014, , . | | 1 |
| 42 | Wearable Seismocardiography: Towards the beat-to-beat assessment of cardiac mechanics during sleep in microgravity. , 2014, , . | | 7 |
| 43 | Cardiovascular variability is similarly altered in coronary patients with normal left ventricular function and in heart failure patients. <i>Journal of Hypertension</i> , 2014, 32, 2261-2266. | 0.3 | 7 |
| 44 | A new index of sodium sensitivity risk from arterial blood pressure monitoring during habitual salt intake. <i>International Journal of Cardiology</i> , 2013, 168, 4523-4525. | 0.8 | 5 |
| 45 | Beat-to-beat estimation of LVET and QS2 indices of cardiac mechanics from wearable seismocardiography in ambulant subjects. , 2013, 2013, 7017-20. | | 20 |
| 46 | Information domain analysis of the spontaneous baroreflex during pharmacological challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 67-75. | 1.4 | 15 |
| 47 | Effects of autonomic ganglion blockade on fractal and spectral components of blood pressure and heart rate variability in free-moving rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 44-49. | 1.4 | 9 |
| 48 | K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. <i>Physiological Measurement</i> , 2013, 34, 17-33. | 1.2 | 52 |
| 49 | Wearable seismocardiography: Towards a beat-by-beat assessment of cardiac mechanics in ambulant subjects. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 50-59. | 1.4 | 134 |
| 50 | Evaluation of a textile-based wearable system for the electrocardiogram monitoring in cardiac patients. <i>Europace</i> , 2013, 15, 607-612. | 0.7 | 35 |
| 51 | High-altitude hypoxia and periodic breathing during sleep: gender-related differences. <i>Journal of Sleep Research</i> , 2013, 22, 322-330. | 1.7 | 82 |
| 52 | Cardiovascular control and time domain Granger causality: insights from selective autonomic blockade. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120161. | 1.6 | 62 |
| 53 | A cautious view of the relationship between ambulatory blood pressure monitoring data and salt-sensitivity of blood pressure. <i>Journal of Hypertension</i> , 2013, 31, 1910-1911. | 0.3 | 0 |
| 54 | Infusion of Escherichia coli Lipopolysaccharide Toxin in Rats Produces an Early and Severe Impairment of Baroreflex Function in Absence of Blood Pressure Changes. <i>Shock</i> , 2013, 39, 204-209. | 1.0 | 13 |

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|----|---|-----|-----------|
| 55 | Seismocardiography while sleeping at high altitude. , 2012, 2012, 3793-6. | | 8 |
| 56 | Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. Journal of Applied Physiology, 2012, 113, 1810-1820. | 1.2 | 68 |
| 57 | 24h seismocardiogram monitoring in ambulant subjects. , 2012, 2012, 5050-3. | | 21 |
| 58 | Influence of birth order on modifiable coronary risk factors: Smoking is less frequent in firstborns. International Journal of Cardiology, 2011, 146, 269-270. | 0.8 | 0 |
| 59 | Potential Role of Wearable, Ambulatory and Home Monitoring Systems for Patients with Neurodegenerative Diseases and Their Caregivers. , 2011, , . | | 3 |
| 60 | Scale exponents of blood pressure and heart rate during autonomic blockade as assessed by detrended fluctuation analysis. Journal of Physiology, 2011, 589, 355-369. | 1.3 | 116 |
| 61 | How should the baroreflex sensitivity on the heart be estimated?. Journal of Electrocardiology, 2011, 44, 391-392. | 0.4 | 8 |
| 62 | Cardiac sounds from a wearable device for sternal seismocardiography. , 2011, 2011, 4283-6. | | 31 |
| 63 | A wearable system for the seismocardiogram assessment in daily life conditions. , 2011, 2011, 4263-6. | | 37 |
| 64 | Assessing the fractal structure of heart rate by the temporal spectrum of scale exponents: a new approach for detrended fluctuation analysis of heart rate variability. Biomedizinische Technik, 2011, 56, 175-183. | 0.9 | 29 |
| 65 | Detecting Sodium-Sensitivity in Hypertensive Patients. Hypertension, 2011, 57, 180-185. | 1.3 | 57 |
| 66 | Increased pulse wave velocity and not reduced ejection fraction is associated with impaired baroreflex control of heart rate in congestive heart failure. Journal of Hypertension, 2010, 28, 1908-1912. | 0.3 | 14 |
| 67 | Where Is the Fractal Component of Heart Rate Spectra Hiding?. Anesthesia and Analgesia, 2010, 110, 1752. | 1.1 | 0 |
| 68 | Textile Technology for the Vital Signs Monitoring in Telemedicine and Extreme Environments. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 711-717. | 3.6 | 67 |
| 69 | Linear and Fractal Heart Rate Dynamics during Sleep at High Altitude. Methods of Information in Medicine, 2010, 49, 521-525. | 0.7 | 14 |
| 70 | The sequence technique revised: additional concepts on the assessment of spontaneous baroreflex function.. , 2010, 2010, 1703-5. | | 2 |
| 71 | Assessment of gravitational stress on heart rate variability during maneuvers on high performance jet flights. , 2010, 2010, 3457-9. | | 4 |
| 72 | Chronic hypotension and modulation of autonomic cardiovascular regulation. Hypertension Research, 2009, 32, 931-933. | 1.5 | 7 |

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|----|---|-----|-----------|
| 73 | Addressing the complexity of cardiovascular regulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1215-1218. | 1.6 | 55 |
| 74 | Local Scale Exponents of Blood Pressure and Heart Rate Variability by Detrended Fluctuation Analysis: Effects of Posture, Exercise, and Aging. IEEE Transactions on Biomedical Engineering, 2009, 56, 675-684. | 2.5 | 94 |
| 75 | MagIC system. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 35-40. | 1.1 | 13 |
| 76 | Cardiovascular variability [Introduction to the special issue. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 16-17. | 1.1 | 3 |
| 77 | Baroreflex contribution to blood pressure and heart rate oscillations: time scales, time-variant characteristics and nonlinearities. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1301-1318. | 1.6 | 78 |
| 78 | Daytime sleepiness and neural cardiac modulation in sleep-related breathing disorders. Journal of Sleep Research, 2008, 17, 263-270. | 1.7 | 96 |
| 79 | What are the causes of excessive daytime sleepiness in patients with sleep-disordered breathing?. European Respiratory Journal, 2008, 32, 526-527. | 3.1 | 17 |
| 80 | Dynamic adaptation of cardiac baroreflex sensitivity to prolonged exposure to microgravity: data from a 16-day spaceflight. Journal of Applied Physiology, 2008, 105, 1569-1575. | 1.2 | 49 |
| 81 | Mechanisms of blood pressure and heart rate variability: an insight from low-level paraplegia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1502-R1509. | 0.9 | 42 |
| 82 | MagIC: a Textile System for Vital Signs Monitoring. Advancement in Design and Embedded Intelligence for Daily Life Applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3958-61. | 0.5 | 7 |
| 83 | Local-Scale Analysis of Cardiovascular Signals by Detrended Fluctuations Analysis: Effects of Posture and Exercise. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5035-8. | 0.5 | 8 |
| 84 | Micropatterned dry electrodes for brain-computer interface. Microelectronic Engineering, 2007, 84, 1737-1740. | 1.1 | 36 |
| 85 | Autonomic cardiovascular regulation in quiescent ulcerative colitis and Crohn's disease. European Journal of Clinical Investigation, 2007, 37, 964-970. | 1.7 | 28 |
| 86 | Wearable Seismocardiography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3954-7. | 0.5 | 116 |
| 87 | Reply to Dr. Cysarz's comment on Point:Counterpoint "Cardiovascular variability is/is not an index of autonomic control of circulation". Journal of Applied Physiology, 2007, 102, 1724-1724. | 1.2 | 1 |
| 88 | Applications of a Textile-Based Wearable System in clinics, exercise and under gravitational stress. , 2006, , . | | 4 |
| 89 | Muscle metaboreflex contribution to cardiovascular regulation during dynamic exercise in microgravity: insights from mission STS-107 of the space shuttle Columbia. Journal of Physiology, 2006, 572, 829-838. | 1.3 | 37 |
| 90 | Assessment of the Autonomic Control of Heart Rate Variability in Healthy and Spinal-Cord Injured Subjects: Contribution of Different Complexity-Based Estimators. IEEE Transactions on Biomedical Engineering, 2006, 53, 43-52. | 2.5 | 52 |

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|-----|--|-----|-----------|
| 109 | Determinants of heart rate and heart rate variability. <i>Journal of Hypertension</i> , 2003, 21, 477-480. | 0.3 | 34 |
| 110 | Non-invasive beat-to-beat blood pressure monitoring: new developments. <i>Blood Pressure Monitoring</i> , 2003, 8, 31-36. | 0.4 | 89 |
| 111 | Continuous Positive Airway Pressure Treatment Improves Baroreflex Control of Heart Rate during Sleep in Severe Obstructive Sleep Apnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 279-286. | 2.5 | 143 |
| 112 | Sleep apnoea and hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , 2002, 11, 201-214. | 1.0 | 20 |
| 113 | Baroreflex effectiveness index: an additional measure of baroreflex control of heart rate in daily life. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R744-R751. | 0.9 | 216 |
| 114 | Reproducibility of beat-by-beat blood pressure and heart rate variability. <i>Blood Pressure Monitoring</i> , 2001, 6, 217-220. | 0.4 | 16 |
| 115 | Dynamic Modulation of Baroreflex Sensitivity in Health and Disease. <i>Annals of the New York Academy of Sciences</i> , 2001, 940, 469-487. | 1.8 | 67 |
| 116 | How to measure baroreflex sensitivity. <i>Journal of Hypertension</i> , 2000, 18, 7-19. | 0.3 | 438 |
| 117 | Lacidipine and Blood Pressure Variability in Diabetic Hypertensive Patients. <i>Hypertension</i> , 2000, 36, 622-628. | 1.3 | 41 |
| 118 | Effect of sinoaortic denervation on frequency-domain estimates of baroreflex sensitivity in conscious cats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H1987-H1993. | 1.5 | 52 |
| 119 | Cardiovascular regulation and analysis of blood pressure&heart rate variability interactions. <i>Fundamental and Clinical Pharmacology</i> , 1999, 13, 11-15. | 1.0 | 6 |
| 120 | Broad-band spectral analysis of 24h continuous finger blood pressure: comparison with intra-arterial recordings. <i>Clinical Science</i> , 1999, 97, 129. | 1.8 | 32 |
| 121 | Broad-band spectral analysis of 24 h continuous finger blood pressure: comparison with intra-arterial recordings. <i>Clinical Science</i> , 1999, 97, 129-139. | 1.8 | 43 |
| 122 | Estimation of Blood Pressure Variability From 24-Hour Ambulatory Finger Blood Pressure. <i>Hypertension</i> , 1998, 32, 52-58. | 1.3 | 52 |
| 123 | Autonomic cardiac regulation in obstructive sleep apnea syndrome. <i>Journal of Hypertension</i> , 1997, 15, 1621-1626. | 0.3 | 175 |
| 124 | Is pulmonary arterial impedance affected by breathing?. <i>European Respiratory Journal</i> , 1997, 10, 1933-1934. | 3.1 | 1 |
| 125 | Time and frequency domain estimates of spontaneous baroreflex sensitivity provide early detection of autonomic dysfunction in diabetes mellitus. <i>Diabetologia</i> , 1997, 40, 1470-1475. | 2.9 | 190 |
| 126 | Broadband Spectral Analysis of Blood Pressure and Heart Rate Variability in Very Elderly Subjects. <i>Hypertension</i> , 1997, 30, 803-808. | 1.3 | 38 |

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|-----|---|-----|-----------|
| 127 | Neural Cardiovascular Regulation and 24-Hour Blood Pressure and Heart Rate Variability. Annals of the New York Academy of Sciences, 1996, 783, 47-63. | 1.8 | 33 |
| 128 | Does spontaneous respiration alter pulmonary artery input impedance?. European Respiratory Journal, 1996, 9, 2328-2334. | 3.1 | 4 |
| 129 | Blood pressure and heart rate variability in autonomic disorders: a critical review. Clinical Autonomic Research, 1996, 6, 171-182. | 1.4 | 56 |
| 130 | Effects of sino-aortic denervation on spectral characteristics of blood pressure and pulse interval variability: a wide-band approach. Medical and Biological Engineering and Computing, 1996, 34, 133-141. | 1.6 | 69 |
| 131 | Blood pressure variability over 24 hours: its different components and its relationship to the arterial baroreflex. Journal of Sleep Research, 1995, 4, 21-29. | 1.7 | 7 |
| 132 | Blood pressure variability and reflex control in the elderly. Aging Clinical and Experimental Research, 1995, 7, 3-9. | 1.4 | 13 |
| 133 | Spectral Analysis of Blood Pressure and Heart Rate Variability in Evaluating Cardiovascular Regulation. Hypertension, 1995, 25, 1276-1286. | 1.3 | 699 |
| 134 | Sympathectomy and Cardiovascular Spectral Components in Conscious Normotensive Rats. Hypertension, 1995, 25, 1287-1293. | 1.3 | 42 |
| 135 | Noninvasive Automatic Blood Pressure Monitoring Does Not Attenuate Nighttime Hypotension. American Journal of Hypertension, 1992, 5, 744-747. | 1.0 | 23 |
| 136 | 24 h sequential spectral analysis of arterial blood pressure and pulse interval in free-moving subjects. IEEE Transactions on Biomedical Engineering, 1989, 36, 1066-1075. | 2.5 | 84 |
| 137 | Evaluation of Central and Reflex Cardiovascular Control By Beat-to-Beat Analysis of the 24 Hour Blood Pressure Signal in Man. Clinical and Experimental Hypertension, 1988, 10, 193-207. | 0.3 | 0 |
| 138 | Role of Heart Rate Variability in the Production of Blood Pressure Variability in Man. Journal of Hypertension, 1987, 5, 557-560. | 0.3 | 38 |
| 139 | Reflex Control of Blood Pressure and Heart Rate by Arterial Baroreceptors and by Cardiopulmonary Receptors in the Unanaesthetized Cat. Journal of Hypertension, 1985, 3, 327-335. | 0.3 | 46 |
| 140 | Twenty-four-hour blood pressure profile and blood pressure variability in untreated hypertension and during antihypertensive treatment by once-a-day nadolol. American Heart Journal, 1984, 108, 1078-1083. | 1.2 | 18 |
| 141 | Blood pressure and heart rate variabilities in normotensive and hypertensive human beings.. Circulation Research, 1983, 53, 96-104. | 2.0 | 722 |
| 142 | A New Technological Platform for the Multisite Assessment of 3D Seismocardiogram and Pulse Transit Time in Cardiac Patients. , 0, , . | | 9 |
| 143 | Editorial: Cardiac Vibration Signals: Old Techniques, New Tricks, and Applications. Frontiers in Physiology, 0, 13, . | 1.3 | 3 |