Evaluating the Consistency of Current Mainstream Wearable Monitoring: A Comparison Under Free-Living Conditions

Citation Report

#	Article	IF	Citations
1	A Novel Smartphone Accelerometer Application for Low-Intensity Activity and Energy Expenditure Estimations in Overweight and Obese Adults. Journal of Medical Systems, 2017, 41, 117.	2.2	9
2	A novel approach for performing measurements in diagnostic images on a mobile-based App for the training of professionals. , 2017, , .		1
3	Hidden Markov models for monitoring circadian rhythmicity in telemetric activity data. Journal of the Royal Society Interface, 2018, 15, 20170885.	1.5	43
4	Wearable Device Validity in Determining Step Count During Hiking and Trail Running. Journal for the Measurement of Physical Behaviour, 2018, 1, 86-93.	0.5	10
5	Evaluating Contemporary Physical Activity Self-Monitoring Technology Performance. , 2018, , .		2
6	The Best Digital Biomarkers Papers of 2017. Digital Biomarkers, 2018, 2, 64-73.	2.2	12
7	An Integration of Health Tracking Sensor Applications and eLearning Environments for Cloud-Based Health Promotion Campaigns. IS&T International Symposium on Electronic Imaging, 2018, 2018, 114-1-114-8.	0.3	1
8	Comparing Real-Time Self-Tracking and Device-Recorded Exercise Data in Subjects with Type 1 Diabetes. Applied Clinical Informatics, 2018, 09, 919-926.	0.8	9
9	Assessment of step accuracy using the Consumer Technology Association standard. Journal of Sports Sciences, 2019, 37, 244-248.	1.0	21
10	Validity of a Portable Breath Analyser (AIRE) for the Assessment of Lactose Malabsorption. Nutrients, 2019, 11, 1636.	1.7	11
11	The effectiveness of wearable technologies as physical activity interventions in weight control: A systematic review and metaâ€analysis of randomized controlled trials. Obesity Reviews, 2019, 20, 1485-1493.	3.1	58
12	Quality analysis of smart phone sleep apps in China: can apps be used to conveniently screen for obstructive sleep apnea at home?. BMC Medical Informatics and Decision Making, 2019, 19, 224.	1.5	10
13	Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal. , 2019, 2019, 571-582.		26
14	Mobile Devices and Health. New England Journal of Medicine, 2019, 381, 956-968.	13.9	344
15	Development of the mHealth App Trustworthiness checklist. Digital Health, 2019, 5, 205520761988646.	0.9	49
16	Elements of Effective Population Surveillance Systems for Monitoring Obesity in School Aged Children. International Journal of Environmental Research and Public Health, 2020, 17, 6812.	1.2	1
17	Hybrid ferrofluid along with MWCNT for augmentation of thermal behavior of fluid during natural convection in a cavity. Mathematical Methods in the Applied Sciences, 0, , .	1.2	35
18	<p>Evaluations of Commercial Sleep Technologies for Objective Monitoring During Routine Sleeping Conditions</p>. Nature and Science of Sleep, 2020, Volume 12, 821-842.	1.4	46

#	Article	IF	Citations
19	A Comparison of the Development of Medical Informatics in China and That in Western Countries from 2008 to 2018: A Bibliometric Analysis of Official Journal Publications. Journal of Healthcare Engineering, 2020, 2020, 1-16.	1.1	4
20	Semi-numerical simulation for vibrational responses of the viscoelastic imperfect annular system with honeycomb core under residual pressure. Engineering With Computers, 2022, 38, 3699-3724.	3.5	26
21	Predicting Coronary Atherosclerotic Heart Disease: An Extreme Learning Machine with Improved Salp Swarm Algorithm. Symmetry, 2020, 12, 1651.	1.1	12
22	River Water Salinity Prediction Using Hybrid Machine Learning Models. Water (Switzerland), 2020, 12, 2951.	1.2	66
23	CO_2 geo-sequestration modeling study for contact angle estimation in ternary systems of brine, CO_2, and mineral. Journal of Cleaner Production, 2021, 283, 124662.	4.6	12
24	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. Knowledge-Based Systems, 2021, 215, 106425.	4.0	104
25	Effect of downstream sinusoidal wall on mixing performance of hydrogen multi-jets at supersonic flow: Numerical study. Aerospace Science and Technology, 2021, 109, 106410.	2.5	22
26	Melting process of nanoparticle enhanced PCM through storage cylinder incorporating fins. Powder Technology, 2021, 381, 551-560.	2.1	160
27	Approaches for expedition of discharging of PCM involving nanoparticles and radial fins. Journal of Molecular Liquids, 2021, 329, 115052.	2.3	74
28	Orthogonal learning covariance matrix for defects of grey wolf optimizer: Insights, balance, diversity, and feature selection. Knowledge-Based Systems, 2021, 213, 106684.	4.0	223
29	Smart wearable devices as a psychological intervention for healthy lifestyle and quality of life: a randomized controlled trial. Quality of Life Research, 2021, 30, 791-802.	1.5	20
30	Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. Knowledge-Based Systems, 2021, 216, 106510.	4.0	196
31	An insight into the estimation of relative humidity of air using artificial intelligence schemes. Environment, Development and Sustainability, 2021, 23, 10194-10222.	2.7	9
32	A systematic review of mobile health interventions in China: Identifying gaps in care. Journal of Telemedicine and Telecare, 2021, 27, 3-22.	1.4	27
33	Investigation of Cu–water nano-fluid of natural convection hydro-magnetic heat transport in a Darcian porous regime with diffusion-thermo. Applied Nanoscience (Switzerland), 2023, 13, 283-293.	1.6	8
35	The influence of wearable devices on the body weight and physical exercise consciousness of college students. , 2021, , .		0
36	Impact of in-plane follower force on the frequency response of the hybrid angle-ply laminated system via dynamic simulation and generalized differential quadrature framework. Engineering With Computers, 2022, 38, 3743-3760.	3.5	21
37	MOSMA: Multi-Objective Slime Mould Algorithm Based on Elitist Non-Dominated Sorting. IEEE Access, 2021, 9, 3229-3248.	2.6	134

#	ARTICLE	IF	CITATIONS
38	Adoption of Electronic Health Records (EHRs) in China During the Past 10 Years: Consecutive Survey Data Analysis and Comparison of Sino-American Challenges and Experiences. Journal of Medical Internet Research, 2021, 23, e24813.	2.1	32
39	Hybrid nanomaterial treatment within a permeable tank considering irreversibility. International Journal of Modern Physics C, 2021, 32, 2150061.	0.8	23
40	Systematic review on next-generation web-based software architecture clustering models. Computer Communications, 2021, 167, 63-74.	3.1	4
41	Random learning gradient based optimization for efficient design of photovoltaic models. Energy Conversion and Management, 2021, 230, 113751.	4.4	53
42	Non-Darcy simulation of permeable domain filled with hybrid nanomaterial. Applied Nanoscience (Switzerland), 2023, 13, 1761-1771.	1.6	0
43	Double adaptive weights for stabilization of moth flame optimizer: Balance analysis, engineering cases, and medical diagnosis. Knowledge-Based Systems, 2021, 214, 106728.	4.0	144
44	Heat recovery application of nanomaterial with existence of turbulator. Journal of Molecular Liquids, 2021, 326, 115268.	2.3	103
45	Design development and thermal performance assessment of latent heat storage of a solar stove unit involving NEPCM. Applied Nanoscience (Switzerland), 0, , 1.	1.6	0
46	Comparisons of physical activity and sedentary behavior between owners and non-owners of commercial wearable devices. Perspectives in Public Health, 2021, 141, 89-96.	0.8	4
47	Effect of sinusoidal splitter on mixing performance of co-flow jets of hydrogen and air inside dual-combustor ramjet. Acta Astronautica, 2021, 180, 211-217.	1.7	6
48	Influence of Lorentz and permeability on migration of nanoparticle. International Journal of Modern Physics C, 2021, 32, 2150104.	0.8	1
49	Nanomaterial transportation and exergy loss modeling incorporating CVFEM. Journal of Molecular Liquids, 2021, 330, 115591.	2.3	60
50	Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. Expert Systems With Applications, 2021, 171, 114529.	4.4	53
51	Hybrid nanomaterial transportation and Lorentz effects in a permeable sinusoidal duct. Journal of Molecular Liquids, 2021, 332, 115796.	2.3	7
52	Nanoparticles for phase change process of water utilizing FEM. Journal of Molecular Liquids, 2021, 334, 116096.	2.3	114
53	Augmentation of performance of system with dispersion of nanoparticles inside PCM. Journal of Molecular Liquids, 2021, 333, 115921.	2.3	14
54	The Challenges and Pitfalls of Detecting Sleep Hypopnea Using a Wearable Optical Sensor: Comparative Study. Journal of Medical Internet Research, 2021, 23, e24171.	2.1	9
55	Data acquisition and transmission of laboratory local area network based on fuzzy DEMATEL algorithm. Wireless Networks, 0, , 1.	2.0	3

#	Article	IF	Citations
56	Effect of permeability and MHD on nanoparticle transportation. Journal of Molecular Liquids, 2021, 335, 116137.	2.3	2
57	Your Physical Activity Is in Your Hand—Objective Activity Tracking Among University Students in Hungary, One of the Most Obese Countries in Europe. Frontiers in Public Health, 2021, 9, 661471.	1.3	6
58	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. Energy Reports, 2021, 7, 228-246.	2.5	30
59	Analysis of Optical Modulator Based on Silicon Waveguide using FDTD. Silicon, 2022, 14, 839-849.	1.8	4
60	Nanomaterial transportation and heat transfer simulation in a penetrable canal using power law model. Applied Nanoscience (Switzerland), 2023, 13, 313-321.	1.6	0
61	Diagnosing Coronavirus Disease 2019 (COVID-19): Efficient Harris Hawks-Inspired Fuzzy K-Nearest Neighbor Prediction Methods. IEEE Access, 2021, 9, 17787-17802.	2.6	46
62	Hygro—thermo—magnetically induced vibration of nanobeams with simultaneous axial and spinning motions based on nonlocal strain gradient theory. Engineering With Computers, 2022, 38, 2509-2526.	3.5	20
63	Usability Study of Mainstream Wearable Fitness Devices: Feature Analysis and System Usability Scale Evaluation. JMIR MHealth and UHealth, 2018, 6, e11066.	1.8	92
64	Measuring Free-Living Physical Activity With Three Commercially Available Activity Monitors for Telemonitoring Purposes: Validation Study. JMIR Formative Research, 2019, 3, e11489.	0.7	16
65	Deep Learning Intervention for Health Care Challenges: Some Biomedical Domain Considerations. JMIR MHealth and UHealth, 2019, 7, e11966.	1.8	110
66	Evaluation of Clinical Outcomes and Simultaneous Digital Tracking of Daily Physical Activity, Heart Rate, and Inhalation Behavior in Patients With Pulmonary Arterial Hypertension Treated With Inhaled Iloprost: Protocol for the Observational VENTASTEP Study. JMIR Research Protocols, 2019, 8, e12144.	0.5	6
67	Social Jetlag and Chronotypes in the Chinese Population: Analysis of Data Recorded by Wearable Devices. Journal of Medical Internet Research, 2019, 21, e13482.	2.1	45
68	Developing Effective Methods for Electronic Health Personalization: Protocol for Health Telescope, a Prospective Interventional Study. JMIR Research Protocols, 2020, 9, e16471.	0.5	2
69	A Novel Approach to Assessing Differentiation Degree and Lymph Node Metastasis of Extrahepatic Cholangiocarcinoma: Prediction Using a Radiomics-Based Particle Swarm Optimization and Support Vector Machine Model. JMIR Medical Informatics, 2020, 8, e23578.	1.3	13
70	Mobile Device Accuracy for Step Counting Across Age Groups. JMIR MHealth and UHealth, 2017, 5, e88.	1.8	44
71	Evaluating Machine Learning—Based Automated Personalized Daily Step Goals Delivered Through a Mobile Phone App: Randomized Controlled Trial. JMIR MHealth and UHealth, 2018, 6, e28.	1.8	69
72	Technology Adoption, Motivational Aspects, and Privacy Concerns of Wearables in the German Running Community: Field Study. JMIR MHealth and UHealth, 2018, 6, e201.	1.8	31
73	Perceived user preferences and usability evaluation of mainstream wearable devices for health monitoring. PeerJ, 2018, 6, e5350.	0.9	27

#	ARTICLE	IF	CITATIONS
79	A comparison of coupled microeconomic and mental health devastating alterations between low-income and affluent countries afflicted with COVID-19. Work, 2021, 70, 1-17.	0.6	0
81	Step Count Reliability and Validity of Five Wearable Technology Devices While Walking and Jogging in both a Free Motion Setting and on a Treadmill. International Journal of Exercise Science, 2020, 13, 410-426.	0.5	5
83	Is a Smarter Generation in the Offing?. International Journal of Technology and Human Interaction, 2022, 18, 1-21.	0.3	1
85	Chaotic simulated annealing multi-verse optimization enhanced kernel extreme learning machine for medical diagnosis. Computers in Biology and Medicine, 2022, 144, 105356.	3.9	14
86	Wearable devices for continuous monitoring of biosignals: Challenges and opportunities. APL Bioengineering, 2022, 6, 021502.	3.3	36
87	Factors affecting resting heart rate in free-living healthy humans. Digital Health, 2022, 8, 205520762211290.	0.9	2
88	The Apple Watch for Monitoring Mental Health–Related Physiological Symptoms: Literature Review. JMIR Mental Health, 2022, 9, e37354.	1.7	15
89	Smartphone app-based interventions targeting physical activity for weight management: A meta-analysis of randomized controlled trials. International Journal of Nursing Studies, 2023, 137, 104384.	2.5	4
90	Initial Development of User-Based Quality Evaluation Questionnaire of Smartwatch Technology for Applying to Healthcare. Iranian Journal of Public Health, 0, , .	0.3	0
91	Validation of Smartphones and Different Low-Cost Activity Trackers for Step Counting Under Free-Living Conditions. Journal for the Measurement of Physical Behaviour, 2023, 6, 79-87.	0.5	0
92	Wearable Two-Dimensional Nanomaterial-Based Flexible Sensors for Blood Pressure Monitoring: A Review. Nanomaterials, 2023, 13, 852.	1.9	5
94	Understanding the research on tracking, diagnosing, and intervening in sleep disorders using mHealth apps: Bibliometric analysis and systematic reviews. Digital Health, 2023, 9, 205520762311659.	0.9	1