

# Mohanraj Karunanithi

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,021  
citations

361413

20  
h-index

289244

40  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3796  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smartphone-based home care model improved use of cardiac rehabilitation in postmyocardial infarction patients: results from a randomised controlled trial. <i>Heart</i> , 2014, 100, 1770-1779.	2.9	404
2	Remote Monitoring of Patients With Heart Failure: An Overview of Systematic Reviews. <i>Journal of Medical Internet Research</i> , 2017, 19, e18.	4.3	216
3	Effectiveness of a Web- and Mobile Phone-Based Intervention to Promote Physical Activity and Healthy Eating in Middle-Aged Males: Randomized Controlled Trial of the ManUp Study. <i>Journal of Medical Internet Research</i> , 2014, 16, e136.	4.3	131
4	Automatic Detection of Respiration Rate From Ambulatory Single-Lead ECG. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 890-896.	3.2	76
5	Review of Accelerometry for Determining Daily Activity Among Elderly Patients. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011, 92, 998-1014.	0.9	70
6	A mobile phone-based care model for outpatient cardiac rehabilitation: the care assessment platform (CAP). <i>BMC Cardiovascular Disorders</i> , 2010, 10, 5.	1.7	68
7	Theoretical Foundations of a Starlingâ€Like Controller for Rotary Blood Pumps. <i>Artificial Organs</i> , 2012, 36, 787-796.	1.9	62
8	Measuring the Lifespace of People With Parkinsonâ€™s Disease Using Smartphones: Proof of Principle. <i>JMIR MHealth and UHealth</i> , 2014, 2, e13.	3.7	58
9	Self-Management Education Through mHealth: Review of Strategies and Structures. <i>JMIR MHealth and UHealth</i> , 2018, 6, e10771.	3.7	47
10	Examining Participant Engagement in an Information Technology-Based Physical Activity and Nutrition Intervention for Men: The Manup Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2014, 3, e2.	1.0	47
11	The Effects of Telemonitoring on Patient Compliance With Self-Management Recommendations and Outcomes of the Innovative Telemonitoring Enhanced Care Program for Chronic Heart Failure: Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2020, 22, e17559.	4.3	45
12	BLUESOUND: A New Resident Identification Sensorâ€Using Ultrasound Array and BLE Technology for Smart Home Platform. <i>IEEE Sensors Journal</i> , 2017, 17, 1503-1512.	4.7	43
13	What Kinds of Website and Mobile Phoneâ€Delivered Physical Activity and Nutrition Interventions Do Middle-Aged Men Want?. <i>Journal of Health Communication</i> , 2013, 18, 1070-1083.	2.4	42
14	Wavelet based approach for posture transition estimation using a waist worn accelerometer. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1884-7.	0.5	38
15	Detecting walking activity in cardiac rehabilitation by using accelerometer. , 2007, , .		38
16	Effectiveness of a website and mobile phone based physical activity and nutrition intervention for middle-aged males: Trial protocol and baseline findings of the ManUp Study. <i>BMC Public Health</i> , 2012, 12, 656.	2.9	34
17	A review of the nature and effectiveness of nutrition interventions in adult males â€ a guide for intervention strategies. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2013, 10, 13.	4.6	33
18	A Cardiovascular Mathematical Model of Graded Head-Up Tilt. <i>PLoS ONE</i> , 2013, 8, e77357.	2.5	31

#	ARTICLE	IF	CITATIONS
19	Monitoring technology for the elderly patient. Expert Review of Medical Devices, 2007, 4, 267-277.	2.8	27
20	A mobile-health system to manage Chronic Obstructive Pulmonary Disease patients at home. , 2012, 2012, 2178-81.		25
21	Multi-Residential Activity Labelling in Smart Homes with Wearable Tags Using BLE Technology. Sensors, 2018, 18, 908.	3.8	24
22	Understanding Smart Home Sensor Data for Ageing in Place Through Everyday Household Routines: A Mixed Method Case Study. JMIR MHealth and UHealth, 2017, 5, e52.	3.7	24
23	Determination of Activities of Daily Living of independent living older people using environmentally placed sensors. , 2013, 2013, 7044-7.		23
24	Simulated fall detection via accelerometers. , 2008, 2008, 1274-7.		21
25	A pilot study of a mobile-phone-based home monitoring system to assist in remote interventions in cases of acute exacerbation of COPD. Journal of Telemedicine and Telecare, 2014, 20, 128-134.	2.7	21
26	User Experience of an Innovative Mobile Health Program to Assist in Insulin Dose Adjustment: Outcomes of a Proof-Of-Concept Trial. Telemedicine Journal and E-Health, 2018, 24, 536-543.	2.8	19
27	A prospective cohort study of prodromal Alzheimer's disease: Prospective Imaging Study of Ageing: Genes, Brain and Behaviour (PISA). NeuroImage: Clinical, 2021, 29, 102527.	2.7	19
28	Mobile health applications in cardiac care. Interventional Cardiology, 2014, 6, 227-240.	0.0	17
29	Examining an Australian physical activity and nutrition intervention using RE-AIM. Health Promotion International, 2016, 31, 450-458.	1.8	17
30	Predicting food nutrition facts using pocket-size near-infrared sensor. , 2017, 2017, 742-745.		17
31	Watching over me: positive, negative and neutral perceptions of in-home monitoring held by independent-living older residents in an Australian pilot study. Ageing and Society, 2018, 38, 1377-1398.	1.7	17
32	On multi-resident activity recognition in ambient smart-homes. Artificial Intelligence Review, 2020, 53, 3929-3945.	15.7	16
33	Gait Velocity Estimation Using Time-Interleaved Between Consecutive Passive IR Sensor Activations. IEEE Sensors Journal, 2016, 16, 6351-6358.	4.7	15
34	A Framework for Linking Gait Characteristics of Patients with Accelerations of the Waist. , 2005, 2005, 7695-8.		14
35	Quantifying Functional Mobility Progress for Chronic Disease Management. , 2006, 2006, 5916-9.		14
36	Activity of Daily Living assessment through wireless sensor data. , 2014, 2014, 1752-5.		14

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37	Innovative Telemonitoring Enhanced Care Programme for Chronic Heart Failure (ITEC-CHF) to improve guideline compliance and collaborative care: protocol of a multicentre randomised controlled trial. <i>BMJ Open</i> , 2017, 7, e017550.	1.9	14
38	Evaluation of realtime people tracking for indoor environments using ubiquitous motion sensors and limited wireless network infrastructure. <i>Pervasive and Mobile Computing</i> , 2013, 9, 498-515.	3.3	13
39	Evaluation of an innovative mobile health programme for the self-management of chronic obstructive pulmonary disease (MH-COPD): protocol of a randomised controlled trial. <i>BMJ Open</i> , 2019, 9, e025381.	1.9	12
40	Rethinking Models of Outpatient Specialist Care in Type 2 Diabetes Using eHealth: Study Protocol for a Pilot Randomised Controlled Trial. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 959.	2.6	12
41	Unsupervised daily routine and activity discovery in smart homes. , 2015, 2015, 5497-500.		9
42	Mixed-dependency models for multi-resident activity recognition in smart homes. <i>Multimedia Tools and Applications</i> , 2020, 79, 23445-23460.	3.9	9
43	Technology-assisted quantification of movement to predict infants at high risk of motor disability: A systematic review. <i>Research in Developmental Disabilities</i> , 2021, 118, 104071.	2.2	9
44	Multidisciplinary Smartphone-Based Interventions to Empower Patients With Acute Coronary Syndromes: Qualitative Study on Health Care Providersâ€™ Perspectives. <i>JMIR Cardio</i> , 2018, 2, e10183.	1.7	9
45	Lifespace metrics of older adults with mild cognitive impairment and dementia recorded via geolocation data. <i>Australasian Journal on Ageing</i> , 2021, , .	0.9	8
46	Can a mobile phone be used as a pedometer in an outpatient cardiac rehabilitation program?. , 2010, , .		7
47	Monitoring ambulation of patients in geriatric rehabilitation wards. <i>International Journal of Rehabilitation Research</i> , 2012, 35, 375-377.	1.3	7
48	Outcomes of a feasibility trial using an innovative mobile health programme to assist in insulin dose adjustment. <i>BMJ Health and Care Informatics</i> , 2019, 26, e100068.	3.0	7
49	Feasibility of unobstrusive ambient sensors for fall detections in home environment. , 2016, 2016, 566-569.		6
50	Use of eHealth in the management of pulmonary arterial hypertension: review of the literature. <i>BMJ Health and Care Informatics</i> , 2020, 27, e100176.	3.0	6
51	Sequence Classification Restricted Boltzmann Machines With Gated Units. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 4806-4815.	11.3	6
52	Care assessment platform: An ICT-enabled home care model for secondary prevention of cardiovascular diseases. , 2010, 2010, 5266.		5
53	Information and communication technology-based cardiac rehabilitation homecare programs. <i>Smart Homecare Technology and Telehealth</i> , 0, , 69.	0.3	5
54	Mobile-based insulin dose adjustment for type 2 diabetes in community and rural populations: study protocol for a pilot randomized controlled trial. <i>Therapeutic Advances in Endocrinology and Metabolism</i> , 2019, 10, 204201881983664.	3.2	5

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55	Home-Based Sleep Sensor Measurements in an Older Australian Population: Before and during a Pandemic. <i>Sensors</i> , 2021, 21, 5993.	3.8	5
56	The Smarter Safer Homes Solution to Support Older People Living in Their Own Homes Through Enhanced Care Models: Protocol for a Stratified Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2022, 11, e31970.	1.0	5
57	Increasing Health Care Adherence Through Gamification, Video Feedback, and Real-World Rewards. , 2018, 2018, 1584-1587.		4
58	Patient Perspectives on Innovative Telemonitoring Enhanced Care Program for Chronic Heart Failure (ITEC-CHF): Usability Study. <i>JMIR Cardio</i> , 2021, 5, e24611.	1.7	3
59	A Home-Based Care Model of Cardiac Rehabilitation Using Digital Technology. <i>Series in Biomedical Engineering</i> , 2009, , 329-352.	0.5	3
60	A Smartphone App for Patients With Acute Coronary Syndrome (MoTER-ACS): User-Centered Design Approach. <i>JMIR Formative Research</i> , 2020, 4, e17542.	1.4	3
61	Use of Smartphones to Estimate Carbohydrates in Foods for Diabetes Management. <i>Studies in Health Technology and Informatics</i> , 2015, 214, 121-7.	0.3	3
62	Evaluation of ambulatory ECG sensors for a clinical trial on outpatient cardiac rehabilitation. , 2010, , .		2
63	Contactless monitoring for sleep disordered-breathing, respiratory and cardiac co-morbidity in an elderly independent living cohort. , 2015, , .		2
64	International feasibility trial on the use of an interactive mobile health platform for cardiac rehabilitation: protocol of the Diversity 1 study. <i>BMJ Health and Care Informatics</i> , 2019, 26, e100042.	3.0	1
65	Improving the Use, Analysis and Integration of Patient Health Data. <i>Lecture Notes in Computer Science</i> , 2008, , 74-84.	1.3	1
66	A Software Architecture and Data Model for Community-Based Healthcare Environments. , 2008, , .		1
67	Integrating a mobile health setup in a chronic disease management network. <i>Studies in Health Technology and Informatics</i> , 2013, 188, 20-5.	0.3	1
68	Smartphone app a lifesaver for patients after myocardial infarction. <i>Medical Journal of Australia</i> , 2015, 202, 404-404.	1.7	0