Jukka-Pekka Onnela

List of Publications by Year
in descending order

88 papers	4,924 citations	172207 29 h-index	114278 63 g-index
99 all docs	99 docs citations	99 times ranked	5934 citing authors

#	Article	IF	Citations
1	New Tools for New Research in Psychiatry: A Scalable and Customizable Platform to Empower Data Driven Smartphone Research. JMIR Mental Health, 2016, 3, e16.	1.7	457
2	Harnessing Smartphone-Based Digital Phenotyping to Enhance Behavioral and Mental Health. Neuropsychopharmacology, 2016, 41, 1691-1696.	2.8	432
3	The WPA- Lancet Psychiatry Commission on the Future of Psychiatry. Lancet Psychiatry,the, 2017, 4, 775-818.	3.7	305
4	Analysis of a large-scale weighted network of one-to-one human communication. New Journal of Physics, 2007, 9, 179-179.	1.2	297
5	Relapse prediction in schizophrenia through digital phenotyping: a pilot study. Neuropsychopharmacology, 2018, 43, 1660-1666.	2.8	269
6	Geographic Constraints on Social Network Groups. PLoS ONE, 2011, 6, e16939.	1.1	245
7	Spontaneous emergence of social influence in online systems. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18375-18380.	3.3	228
8	Utilizing a Personal Smartphone Custom App to Assess the Patient Health Questionnaire-9 (PHQ-9) Depressive Symptoms in Patients With Major Depressive Disorder. JMIR Mental Health, 2015, 2, e8.	1.7	213
9	A multilevel approach to modeling health inequalities at the intersection of multiple social identities. Social Science and Medicine, 2018, 203, 64-73.	1.8	185
10	Realizing the Potential of Mobile Mental Health: New Methods for New Data in Psychiatry. Current Psychiatry Reports, 2015, 17, 602.	2.1	135
11	Opportunities and challenges in the collection and analysis of digital phenotyping data. Neuropsychopharmacology, 2021, 46, 45-54.	2.8	122
12	Understanding the quality, effectiveness and attributes of top-rated smartphone health apps. Evidence-Based Mental Health, 2019, 22, 4-9.	2.2	95
13	The AURORA Study: a longitudinal, multimodal library of brain biology and function after traumatic stress exposure. Molecular Psychiatry, 2020, 25, 283-296.	4.1	92
14	Characterizing the clinical relevance of digital phenotyping data quality with applications to a cohort with schizophrenia. Npj Digital Medicine, 2018, 1, 15.	5.7	88
15	A systematic review of smartphone-based human activity recognition methods for health research. Npj Digital Medicine, 2021, 4, 148.	5.7	82
16	Taxonomies of networks from community structure. Physical Review E, 2012, 86, 036104-36104.	0.8	79
17	A simple generative model of collective online behavior. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10411-10415.	3.3	78
18	Patient-Sharing Networks of Physicians and Health Care Utilization and Spending Among Medicare Beneficiaries. JAMA Internal Medicine, 2018, 178, 66.	2.6	75

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19	Using Smartphones to Capture Novel Recovery Metrics After Cancer Surgery. JAMA Surgery, 2020, 155, 123.	2.2	71
20	The HOPE Pilot Study: Harnessing Patient-Reported Outcomes and Biometric Data to Enhance Cancer Care. JCO Clinical Cancer Informatics, 2018, 2, 1-12.	1.0	67
21	Simulations for designing and interpreting intervention trials in infectious diseases. BMC Medicine, 2017, 15, 223.	2.3	64
22	Can mHealth interventions improve quality of life of cancer patients? A systematic review and meta-analysis. Critical Reviews in Oncology/Hematology, 2021, 157, 103123.	2.0	59
23	Assessment of Racial Disparities in Primary Care Physician Specialty Referrals. JAMA Network Open, 2021, 4, e2029238.	2.8	58
24	Passive data collection and use in healthcare: A systematic review of ethical issues. International Journal of Medical Informatics, 2019, 129, 242-247.	1.6	57
25	Smartphone-Based Tracking of Sleep in Depression, Anxiety, and Psychotic Disorders. Current Psychiatry Reports, 2019, 21, 49.	2.1	57
26	Inferring mobility measures from GPS traces with missing data. Biostatistics, 2020, 21, e98-e112.	0.9	57
27	A comparison of passive and active estimates of sleep in a cohort with schizophrenia. NPJ Schizophrenia, 2017, 3, 37.	2.0	55
28	Polio vaccine hesitancy in the networks and neighborhoods of Malegaon, India. Social Science and Medicine, 2016, 153, 99-106.	1.8	45
29	Using sociometers to quantify social interaction patterns. Scientific Reports, 2014, 4, .	1.6	42
30	Digital Phenotyping in Patients with Spine Disease: A Novel Approach to Quantifying Mobility and Quality of Life. World Neurosurgery, 2019, 126, e241-e249.	0.7	39
31	Smartphone sensing of social interactions in people with and without schizophrenia. Journal of Psychiatric Research, 2021, 137, 613-620.	1.5	39
32	Beyond smartphones and sensors: choosing appropriate statistical methods for the analysis of longitudinal data. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1669-1674.	2.2	35
33	Incorporating human mobility data improves forecasts of Dengue fever in Thailand. Scientific Reports, 2021, 11, 923.	1.6	33
34	Efficient vaccination strategies for epidemic control using network information. Epidemics, 2019, 27, 115-122.	1.5	29
35	Increase in Suicidal Thinking During COVID-19. Clinical Psychological Science, 2021, 9, 482-488.	2.4	28
36	Beiwe: A data collection platform for high-throughput digital phenotyping. Journal of Open Source Software, 2021, 6, 3417.	2.0	28

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37	Social network analysis of group position, popularity, and sleep behaviors among U.S. adolescents. Social Science and Medicine, 2019, 232, 417-426.	1.8	27
38	A Network Approach to Stroke Systems of Care. Circulation: Cardiovascular Quality and Outcomes, 2019, 12, e005526.	0.9	26
39	Spreading paths in partially observed social networks. Physical Review E, 2012, 85, 036106.	0.8	24
40	Multiple contexts and adolescent body mass index: Schools, neighborhoods, and social networks. Social Science and Medicine, 2016, 162, 21-31.	1.8	24
41	Influence of a patient transfer network of US inpatient facilities on the incidence of nosocomial infections. Scientific Reports, 2017, 7, 2930.	1.6	23
42	Association of Physician Peer Influence With Subsequent Physician Adoption and Use of Bevacizumab. JAMA Network Open, 2020, 3, e1918586.	2.8	22
43	Incorporating Contact Network Structure in Cluster Randomized Trials. Scientific Reports, 2015, 5, 17581.	1.6	21
44	Harnessing digital technology to predict, diagnose, monitor, and develop treatments for brain disorders. Npj Digital Medicine, 2019, 2, 44.	5.7	21
45	Determining sample size and length of follow-up for smartphone-based digital phenotyping studies. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1844-1849.	2.2	21
46	Understanding tie strength in social networks using a local â€œbow tieâ€•framework. Scientific Reports, 2018, 8, 9349.	1.6	20
47	Smartphone data during the <scp>COVID</scp>â€19 pandemic can quantify behavioral changes in people with <scp>ALS</scp>. Muscle and Nerve, 2021, 63, 258-262.	1.0	19
48	Sociodemographic characteristics of missing data in digital phenotyping. Scientific Reports, 2021, 11, 15408.	1.6	19
49	Biomarker correlation network in colorectal carcinoma by tumor anatomic location. BMC Bioinformatics, 2017, 18, 304.	1.2	18
50	Hospital Factors Associated With Interhospital Transfer Destination for Stroke in the Northeast United States. Journal of the American Heart Association, 2020, 9, e011575.	1.6	18
51	Smartphone Global Positioning System (GPS) Data Enhances Recovery Assessment After Breast Cancer Surgery. Annals of Surgical Oncology, 2021, 28, 985-994.	0.7	16
52	Design and methods of the Apple Womenâ€™s Health Study: a digital longitudinal cohort study. American Journal of Obstetrics and Gynecology, 2022, 226, 545.e1-545.e29.	0.7	16
53	Examining SARS-CoV-2 Interventions in Residential Colleges Using an Empirical Network. International Journal of Infectious Diseases, 2021, 113, 325-330.	1.5	14
54	Comparison of physician networks constructed from thresholded ties versus shared clinical episodes. Applied Network Science, 2018, 3, 28.	0.8	13

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55	Smartphone GPS signatures of patients undergoing spine surgery correlate with mobility and current gold standard outcome measures. Journal of Neurosurgery: Spine, 2021, 35, 796-806.	0.9	13
56	Leveraging contact network structure in the design of cluster randomized trials. Clinical Trials, 2017, 14, 37-47.	0.7	12
57	Impact of degree truncation on the spread of a contagious process on networks. Network Science, 2018, 6, 34-53.	0.8	12
58	Connected but segregated: social networks in rural villages. Journal of Complex Networks, 2018, 6, 693-705.	1.1	11
59	Open-source Longitudinal Sleep Analysis From Accelerometer Data (DPSleep): Algorithm Development and Validation. JMIR MHealth and UHealth, 2021, 9, e29849.	1.8	11
60	Ischemic Stroke Transfer Patterns in the Northeast United States. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 295-304.	0.7	10
61	Augmented Movelet Method for Activity Classification Using Smartphone Gyroscope and Accelerometer Data. Sensors, 2020, 20, 3706.	2.1	10
62	Using Smartphones to Reduce Research Burden in a Neurodegenerative Population and Assessing Participant Adherence: A Randomized Clinical Trial and Two Observational Studies. JMIR MHealth and UHealth, 2022, 10, e31877.	1.8	10
63	Expected Versus Experienced Health-Related Quality of Life Among Patients Recovering From Cancer Surgery. Annals of Surgery Open, 2021, 2, e060.	0.7	9
64	Decision Models and Technology Can Help Psychiatry Develop Biomarkers. Frontiers in Psychiatry, 2021, 12, 706655.	1.3	9
65	Bidirectional imputation of spatial GPS trajectories with missingness using sparse online Gaussian Process. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1777-1784.	2.2	8
66	Digital Phenotyping for the Busy Psychiatrist: Clinical Implications and Relevance. Psychiatric Annals, 2019, 49, 196-201.	0.1	8
67	Smartphone-based Assessment of Preoperative Decision Conflict and Postoperative Physical Activity Among Patients Undergoing Cancer Surgery. Annals of Surgery, 2022, 276, 193-199.	2.1	8
68	Fluctuations in behavior and affect in college students measured using deep phenotyping. Scientific Reports, 2022, 12, 1932.	1.6	8
69	A crossroad for validating digital tools in schizophrenia and mental health. NPJ Schizophrenia, 2018, 4, 6.	2.0	7
70	Framework for assessing and easing global COVID-19 travel restrictions. Scientific Reports, 2022, 12, 6985.	1.6	7
71	Assessing the impact of colonoscopy complications on use of colonoscopy among primary care physicians and other connected physicians: an observational study of older Americans. BMJ Open, 2017, 7, e014239.	0.8	6
72	Influence of Peer Physicians on Intensity of End-of-Life Care for Cancer Decedents. Medical Care, 2019, 57, 468-474.	1.1	6

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73	Feasibility and performance of smartphone-based daily micro-surveys among patients recovering from cancer surgery. Quality of Life Research, 2022, 31, 579-587.	1.5	5
74	Influence of Hospital Characteristics on Hospital Transfer Destinations for Patients With Stroke. Circulation: Cardiovascular Quality and Outcomes, 2022, 15, 101161CIRCOUTCOMES121008269.	0.9	5
75	Combining digital pill and smartphone data to quantify medication adherence in an observational psychiatric pilot study. Psychiatry Research, 2022, 315, 114707.	1.7	5
76	Using a network-based approach and targeted maximum likelihood estimation to evaluate the effect of adding pre-exposure prophylaxis to an ongoing test-and-treat trial. Clinical Trials, 2017, 14, 201-210.	0.7	4
77	A Bootstrap Method for Goodness of Fit and Model Selection with a Single Observed Network. Scientific Reports, 2019, 9, 16674.	1.6	4
78	Smartphone-Based Activity Recognition Using Multistream Movelets Combining Accelerometer and Gyroscope Data. Sensors, 2022, 22, 2618.	2.1	4
79	Adding network structure onto the map of collective behavior. Behavioral and Brain Sciences, 2014, 37, 82-83.	0.4	2
80	Flexible model of network embedding. Scientific Reports, 2019, 9, 11710.	1.6	2
81	Edge overlap in weighted and directed social networks. Network Science, 2021, 9, 179-193.	0.8	2
82	Online Anomaly Detection for Smartphone-Based Multivariate Behavioral Time Series Data. Sensors, 2022, 22, 2110.	2.1	2
83	Attempts to Conceive and the COVID-19 Pandemic: Data from the Apple Womenâ€™s Health Study. American Journal of Obstetrics and Gynecology, 2022, , .	0.7	2
84	ASO Author Reflections: Applications of Smartphone-Based Digital Phenotyping in Supplementing Recovery Assessment After Cancer Surgery. Annals of Surgical Oncology, 2020, 27, 909-910.	0.7	1
85	Bayesian method for inferring the impact of geographical distance on intensity of communication. Scientific Reports, 2020, 10, 11775.	1.6	1
86	Mentalizing imagery therapy to augment skills training for dementia caregivers: Protocol for a randomized, controlled trial of a mobile application and digital phenotyping. Contemporary Clinical Trials, 2022, 116, 106737.	0.8	1
87	Patient-reported and clinician-rated performance status and general health among women with gynecologic cancers on palliative chemotherapy.. Journal of Clinical Oncology, 2020, 38, e24128-e24128.	0.8	0
88	Effect of a Two-Dose vs Three-Dose Vaccine Strategy in Residential Colleges Using an Empirical Proximity Network. International Journal of Infectious Diseases, 2022, , .	1.5	0