Hua Fang

List of Publications by Year
in descending order

64 papers	1,217 citations	394421 19 h-index	434195 31 g-index
64 all docs	64 docs citations	64 times ranked	1300 citing authors

#	Article	IF	Citations
1	A Feature-Based Learning System for Internet of Things Applications. IEEE Internet of Things Journal, 2019, 6, 1928-1937.	8.7	116
2	A survey of big data research. IEEE Network, 2015, 29, 6-9.	6.9	87
3	Interference Mitigation for Cyber-Physical Wireless Body Area Network System Using Social Networks. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 121-132.	4.6	83
4	Wearable Biosensors to Detect Physiologic Change During Opioid Use. Journal of Medical Toxicology, 2016, 12, 255-262.	1.5	64
5	Modeling Epidemics Spreading on Social Contact Networks. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 410-419.	4.6	60
6	Single-Component Versus Multicomponent Dietary Goals for the Metabolic Syndrome. Annals of Internal Medicine, 2015, 162, 248-257.	3.9	53
7	An Integrated Biometric-Based Security Framework Using Wavelet-Domain HMM in Wireless Body Area Networks (WBAN). , 2011, , .		48
8	A Survey of Collaborative Machine Learning Using 5G Vehicular Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1280-1303.	39.4	38
9	Automatic Detection of Opioid Intake Using Wearable Biosensor. , 2018, 2018, 784-788.		37
10	Are Members of Long-Lived Families Healthier Than Their Equally Long-Lived Peers? Evidence From the Long Life Family Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 971-976.	3.6	36
11	Machine-Learning-Enabled Cooperative Perception for Connected Autonomous Vehicles: Challenges and Opportunities. IEEE Network, 2021, 35, 96-101.	6.9	35
12	A Culturally Adapted Smoking Cessation Intervention for Korean Americans: A Mediating Effect of Perceived Family Norm Toward Quitting. Journal of Immigrant and Minority Health, 2015, 17, 1120-1129.	1.6	33
13	A new nonlinear classifier with a penalized signed fuzzy measure using effective genetic algorithm. Pattern Recognition, 2010, 43, 1393-1401.	8.1	32
14	A new look at quantifying tobacco exposure during pregnancy using fuzzy clustering. Neurotoxicology and Teratology, 2011, 33, 155-165.	2.4	32
15	Growth mixture modeling of academic achievement in children of varying birth weight risk.. Neuropsychology, 2009, 23, 460-474.	1.3	28
16	A randomized controlled trial of a videoconferencing smoking cessation intervention for Korean American women: preliminary findings. International Journal of Women's Health, 2016, Volume 8, 453-462.	2.6	27
17	Cluster-Based Epidemic Control through Smartphone-Based Body Area Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 681-690.	5.6	26
18	An Overview of Wireless Body Area Networks for Mobile Health Applications. IEEE Network, 2022, 36, 76-82.	6.9	26

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19	Group-Based Cooperation on Symmetric Key Generation for Wireless Body Area Networks. IEEE Internet of Things Journal, 2017, 4, 1955-1963.	8.7	25
20	PATTERN RECOGNITION OF LONGITUDINAL TRIAL DATA WITH NONIGNORABLE MISSINGNESS: AN EMPIRICAL CASE STUDY. International Journal of Information Technology and Decision Making, 2009, 08, 491-513.	3.9	22
21	Detecting Graded Exposure Effects: A Report on an East Boston Pregnancy Cohort. Nicotine and Tobacco Research, 2012, 14, 1115-1120.	2.6	21
22	Effective epidemic control and source tracing through mobile social sensing over WBANs. , 2013, , .		20
23	A new mining method to detect real time substance use events from wearable biosensor data stream. , 2017, 2017, 465-470.		20
24	A New MI-Based Visualization Aided Validation Index for Mining Big Longitudinal Web Trial Data. IEEE Access, 2016, 4, 2272-2280.	4.2	19
25	Multiple Imputation based Clustering Validation (MIV) for Big Longitudinal Trial Data with Missing Values in eHealth. Journal of Medical Systems, 2016, 40, 146.	3.6	17
26	Determining the impact of prenatal tobacco exposure on self-regulation at 6 months.. Developmental Psychology, 2014, 50, 1746-1756.	1.6	16
27	Relation of neural structure to persistently low academic achievement: A longitudinal study of children with differing birth weights.. Neuropsychology, 2013, 27, 364-377.	1.3	14
28	Multiple-vs Non-or Single-Imputation Based Fuzzy Clustering for Incomplete Longitudinal Behavioral Intervention Data. , 2016, 2016, 219-228.		14
29	Wearables technology for drug abuse detection: A survey of recent advancement. Smart Health, 2019, 13, 100062.	3.2	14
30	An Enhanced Visualization Method to Aid Behavioral Trajectory Pattern Recognition Infrastructure for Big Longitudinal Data. IEEE Transactions on Big Data, 2018, 4, 289-298.	6.1	13
31	Using Propensity Score Modeling to Minimize the Influence of Confounding Risks Related to Prenatal Tobacco Exposure. Nicotine and Tobacco Research, 2010, 12, 1211-1219.	2.6	12
32	MIFuzzy clustering for incomplete longitudinal data in smart health. Smart Health, 2017, 1-2, 50-65.	3.2	12
33	Secure and efficient key generation and agreement methods for wireless body area networks. , 2017, , .		10
34	Prospects of 60 GHz mmWave WBAN: A PHY-MAC Joint Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 6153-6164.	6.3	9
35	Epidemic Control Based on Fused Body Sensed and Social Network Information. , 2012, , .		8
36	Acculturation, Depression, and Smoking Cessation: a trajectory pattern recognition approach. Tobacco Induced Diseases, 2017, 15, 33.	0.6	8

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37	Harmonizing Wearable Biosensor Data Streams to Test Polysubstance Detection. , 2020, 2020, 445-449.		8
38	Channel Information based Cryptography and Authentication in Wireless Body Area Networks. , 2013, , .		8
39	Socialized WBANs in mobile sensing environments. IEEE Network, 2014, 28, 91-95.	6.9	6
40	Visualization aided engagement pattern validation for big longitudinal web behavior intervention data. , 2015, , .		6
41	A novel initialization method for particle swarm optimization-based FCM in big biomedical data. , 2015, , .		6
42	eFCM: An Enhanced Fuzzy C-Means Algorithm for Longitudinal Intervention Data. , 2018, 2018, 912-916.		6
43	Power control and localization of wireless body area networks using semidefinite programming. , 2015, , .		5
44	Evaluate clustering performance and computational efficiency for PSO based fuzzy clustering methods in processing big imbalanced data. , 2017, , .		5
45	Power of Models in Longitudinal Study: Findings From a Full-Crossed Simulation Design. Journal of Experimental Education, 2009, 77, 215-254.	2.6	4
46	The Agency for Healthcare Research and Quality Inpatient Quality Indicator #11 overall mortality rate does not accurately assess mortality risk after abdominal aortic aneurysm repair. Journal of Vascular Surgery, 2015, 61, 44-49.	1.1	4
47	ESammon: A computationaly enhanced sammon mapping based on data density. , 2016, 2016, .		4
48	Simulating Normal and Abnormal ECG Signals in Children Age 0-16. , 2017, , .		3
49	Neuro-Fuzzy classifier for longitudinal behavioral intervention data. , 2019, , .		3
50	A review of harmonization methods for studying dietary patterns. Smart Health, 2022, 23, 100263.	3.2	3
51	A New Emulation Platform for Real-time Machine Learning in Substance Use Data Streams. , 2020, , .		2
52	Topic modeling for systematic review of visual analytics in incomplete longitudinal behavioral trial data. Smart Health, 2020, 18, 100142.	3.2	2
53	Smart Spectrum Switching in Wireless Body Area Networks. , 2020, , .		2
54	Using probabilistic approach to joint clustering and statistical inference: Analytics for big investment data. , 2015, , .		1

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55	Prospective Evaluation of Factors Predicting Nicotine Withdrawal Symptoms Among Korean Americans. Journal of Smoking Cessation, 2016, 11, 154-162.	1.0	1
56	Integrated Node Authentication and Key Distribution Method for Body Area Network. , 2019, , .		1
57	An Adaptive and Dynamic Biosensor Epidemic Model for COVID-19. , 2020, , .		1
58	Overview of Quantum Technologies, Standards, and their Applications in Mobile Devices. GetMobile (New York, N Y), 2021, 24, 5-9.	1.0	1
59	A computational efficient fuzzy clustering algorithm for big incomplete longitudinal trial data. , 2018, , .		0
60	Data Analytics for Longitudinal Biomedical Data. , 2020, , 1-4.		0
61	Data Analytics for Longitudinal Biomedical Data. , 2020, , 257-260.		0
62	A Multilevel Biosensor-Based Epidemic Simulation Model for COVID-19. IEEE Internet of Things Journal, 2022, 9, 10668-10675.	8.7	0
63	EDA-based Data Stream Pattern Analysis and Peak Detection Algorithm for Substance Users. , 2021, , .		0
64	Intelligent Behavioral Trajectory Pattern Recognition for Longitudinal Trials. Series in Computer Vision, 2022, , 11-29.	0.1	0