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 Multilevel Biosensor-Based Epidemic Simulation Model for COVID-19. IEEE Internet of Things Journal, 2022, 9, 10668-10675.	8.7	0
2	A review of harmonization methods for studying dietary patterns. Smart Health, 2022, 23, 100263.	3.2	3
3	A Survey of Collaborative Machine Learning Using 5G Vehicular Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1280-1303.	39.4	38
4	An Overview of Wireless Body Area Networks for Mobile Health Applications. IEEE Network, 2022, 36, 76-82.	6.9	26
5	Intelligent Behavioral Trajectory Pattern Recognition for Longitudinal Trials. Series in Computer Vision, 2022, , 11-29.	0.1	0
6	Overview of Quantum Technologies, Standards, and their Applications in Mobile Devices. GetMobile (New York, N Y), 2021, 24, 5-9.	1.0	1
7	Machine-Learning-Enabled Cooperative Perception for Connected Autonomous Vehicles: Challenges and Opportunities. IEEE Network, 2021, 35, 96-101.	6.9	35
8	EDA-based Data Stream Pattern Analysis and Peak Detection Algorithm for Substance Users. , 2021, , .		0
9	A New Emulation Platform for Real-time Machine Learning in Substance Use Data Streams. , 2020, , .		2
10	An Adaptive and Dynamic Biosensor Epidemic Model for COVID-19. , 2020, , .		1
11	Topic modeling for systematic review of visual analytics in incomplete longitudinal behavioral trial data. Smart Health, 2020, 18, 100142.	3.2	2
12	Prospects of 60 GHz mmWave WBAN: A PHY-MAC Joint Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 6153-6164.	6.3	9
13	Harmonizing Wearable Biosensor Data Streams to Test Polysubstance Detection. , 2020, 2020, 445-449.		8
14	Smart Spectrum Switching in Wireless Body Area Networks. , 2020, , .		2
15	Data Analytics for Longitudinal Biomedical Data. , 2020, , 1-4.		0
16	Data Analytics for Longitudinal Biomedical Data. , 2020, , 257-260.		0
17	Integrated Node Authentication and Key Distribution Method for Body Area Network. , 2019, , .		1
18	Neuro-Fuzzy classifier for longitudinal behavioral intervention data. , 2019, , .		3

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19	Wearables technology for drug abuse detection: A survey of recent advancement. Smart Health, 2019, 13, 100062.	3.2	14
20	A Feature-Based Learning System for Internet of Things Applications. IEEE Internet of Things Journal, 2019, 6, 1928-1937.	8.7	116
21	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
22	Automatic Detection of Opioid Intake Using Wearable Biosensor. , 2018, 2018, 784-788.		37
23	eFCM: An Enhanced Fuzzy C-Means Algorithm for Longitudinal Intervention Data. , 2018, 2018, 912-916.		6
24	A computational efficient fuzzy clustering algorithm for big incomplete longitudinal trial data. , 2018, , .		0
25	MIFuzzy clustering for incomplete longitudinal data in smart health. Smart Health, 2017, 1-2, 50-65.	3.2	12
26	A new mining method to detect real time substance use events from wearable biosensor data stream. , 2017, 2017, 465-470.		20
27	Group-Based Cooperation on Symmetric Key Generation for Wireless Body Area Networks. IEEE Internet of Things Journal, 2017, 4, 1955-1963.	8.7	25
28	Simulating Normal and Abnormal ECG Signals in Children Age 0-16. , 2017, , .		3
29	Secure and efficient key generation and agreement methods for wireless body area networks. , 2017, , .		10
30	Evaluate clustering performance and computational efficiency for PSO based fuzzy clustering methods in processing big imbalanced data. , 2017, , .		5
31	Acculturation, Depression, and Smoking Cessation: a trajectory pattern recognition approach. Tobacco Induced Diseases, 2017, 15, 33.	0.6	8
32	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
33	Prospective Evaluation of Factors Predicting Nicotine Withdrawal Symptoms Among Korean Americans. Journal of Smoking Cessation, 2016, 11, 154-162.	1.0	1
34	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
35	Multiple-vs Non-or Single-Imputation Based Fuzzy Clustering for Incomplete Longitudinal Behavioral Intervention Data. , 2016, 2016, 219-228.		14
36	A New MI-Based Visualization Aided Validation Index for Mining Big Longitudinal Web Trial Data. IEEE Access, 2016, 4, 2272-2280.	4.2	19

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37	Wearable Biosensors to Detect Physiologic Change During Opioid Use. Journal of Medical Toxicology, 2016, 12, 255-262.	1.5	64
38	ESammon: A computationaly enhanced sammon mapping based on data density. , 2016, 2016, .		4
39	Visualization aided engagement pattern validation for big longitudinal web behavior intervention data. , 2015, , .		6
40	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
41	A novel initialization method for particle swarm optimization-based FCM in big biomedical data. , 2015, , .		6
42	Using probabilistic approach to joint clustering and statistical inference: Analytics for big investment data. , 2015, , .		1
43	Single-Component Versus Multicomponent Dietary Goals for the Metabolic Syndrome. Annals of Internal Medicine, 2015, 162, 248-257.	3.9	53
44	Power control and localization of wireless body area networks using semidefinite programming. , 2015, , .		5
45	A survey of big data research. IEEE Network, 2015, 29, 6-9.	6.9	87
46	Modeling Epidemics Spreading on Social Contact Networks. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 410-419.	4.6	60
47	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
48	Cluster-Based Epidemic Control through Smartphone-Based Body Area Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 681-690.	5.6	26
49	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
50	Socialized WBANs in mobile sensing environments. IEEE Network, 2014, 28, 91-95.	6.9	6
51	Determining the impact of prenatal tobacco exposure on self-regulation at 6 months.. Developmental Psychology, 2014, 50, 1746-1756.	1.6	16
52	Effective epidemic control and source tracing through mobile social sensing over WBANs. , 2013, , .		20
53	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
54	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

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55	Channel Information based Cryptography and Authentication in Wireless Body Area Networks. , 2013, , .		8
56	Detecting Graded Exposure Effects: A Report on an East Boston Pregnancy Cohort. Nicotine and Tobacco Research, 2012, 14, 1115-1120.	2.6	21
57	Epidemic Control Based on Fused Body Sensed and Social Network Information. , 2012, , .		8
58	An Integrated Biometric-Based Security Framework Using Wavelet-Domain HMM in Wireless Body Area Networks (WBAN). , 2011, , .		48
59	A new look at quantifying tobacco exposure during pregnancy using fuzzy clustering. Neurotoxicology and Teratology, 2011, 33, 155-165.	2.4	32
60	A new nonlinear classifier with a penalized signed fuzzy measure using effective genetic algorithm. Pattern Recognition, 2010, 43, 1393-1401.	8.1	32
61	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
62	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
63	Power of Models in Longitudinal Study: Findings From a Full-Crossed Simulation Design. Journal of Experimental Education, 2009, 77, 215-254.	2.6	4
64	Growth mixture modeling of academic achievement in children of varying birth weight risk.. Neuropsychology, 2009, 23, 460-474.	1.3	28