

# Xiaohui Yuan

## List of Publications by Year in descending order

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172  
papers

4,748  
citations

126907

33  
h-index

118850

62  
g-index

177  
all docs

177  
docs citations

177  
times ranked

3887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature selection based on artificial bee colony and gradient boosting decision tree. Applied Soft Computing Journal, 2019, 74, 634-642.	7.2	384
2	A review of deep learning methods for semantic segmentation of remote sensing imagery. Expert Systems With Applications, 2021, 169, 114417.	7.6	278
3	Monthly runoff forecasting based on LSTM+ALO model. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2199-2212.	4.0	209
4	Fast Image Dehazing Method Based on Linear Transformation. IEEE Transactions on Multimedia, 2017, 19, 1142-1155.	7.2	183
5	A Genetic Algorithm-Based, Dynamic Clustering Method Towards Improved WSN Longevity. Journal of Network and Systems Management, 2017, 25, 21-46.	4.9	180
6	Balancing Energy Consumption in Heterogeneous Wireless Sensor Networks Using Genetic Algorithm. IEEE Communications Letters, 2015, 19, 2194-2197.	4.1	158
7	An Experiment-Based Review of Low-Light Image Enhancement Methods. IEEE Access, 2020, 8, 87884-87917.	4.2	147
8	A regularized ensemble framework of deep learning for cancer detection from multi-class, imbalanced training data. Pattern Recognition, 2018, 77, 160-172.	8.1	139
9	Optimizing K-coverage of mobile WSNs. Expert Systems With Applications, 2018, 92, 142-153.	7.6	137
10	Recent advances in image dehazing. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 410-436.	13.1	108
11	An energy efficient encryption method for secure dynamic WSN. Security and Communication Networks, 2016, 9, 2024-2031.	1.5	99
12	Optimizing robot path in dynamic environments using Genetic Algorithm and Bezier Curve. Journal of Intelligent and Fuzzy Systems, 2017, 33, 2305-2316.	1.4	97
13	Adaptive image enhancement method for correcting low-illumination images. Information Sciences, 2019, 496, 25-41.	6.9	95
14	A hybrid support vector regression framework for streamflow forecast. Journal of Hydrology, 2019, 568, 184-193.	5.4	93
15	Fabric Defect Detection Using Activation Layer Embedded Convolutional Neural Network. IEEE Access, 2019, 7, 70130-70140.	4.2	87
16	A secure data routing schema for WSN using Elliptic Curve Cryptography and homomorphic encryption. Journal of King Saud University - Computer and Information Sciences, 2016, 28, 262-275.	3.9	85
17	Conditional convolution neural network enhanced random forest for facial expression recognition. Pattern Recognition, 2018, 84, 251-261.	8.1	81
18	Automatic removal of complex shadows from indoor videos using transfer learning and dynamic thresholding. Computers and Electrical Engineering, 2018, 70, 813-825.	4.8	75

#	ARTICLE	IF	CITATIONS
19	An improved long short-term memory network for streamflow forecasting in the upper Yangtze River. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1313-1329.	4.0	65
20	Application of multi-objective controller to optimal tuning of PID gains for a hydraulic turbine regulating system using adaptive grid particle swarm optimization. <i>ISA Transactions</i> , 2015, 56, 173-187.	5.7	63
21	Unit commitment problem using enhanced particle swarm optimization algorithm. <i>Soft Computing</i> , 2011, 15, 139-148.	3.6	62
22	Dehazing for images with large sky region. <i>Neurocomputing</i> , 2017, 238, 365-376.	5.9	60
23	Emotion recognition using empirical mode decomposition and approximation entropy. <i>Computers and Electrical Engineering</i> , 2018, 72, 383-392.	4.8	59
24	Automatic classification of digestive organs in wireless capsule endoscopy videos. , 2007, , .		58
25	Visual SLAM for robot navigation in healthcare facility. <i>Pattern Recognition</i> , 2021, 113, 107822.	8.1	53
26	Zero-shot learning for compound fault diagnosis of bearings. <i>Expert Systems With Applications</i> , 2022, 190, 116197.	7.6	53
27	Parameter Identification of Chaotic and Hyper-Chaotic Systems Using Synchronization-Based Parameter Observer. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016, 63, 1464-1475.	5.4	47
28	Comparison of LSSVR, M5RT, NF-GP, and NF-SC Models for Predictions of Hourly Wind Speed and Wind Power Based on Cross-Validation. <i>Energies</i> , 2019, 12, 329.	3.1	43
29	Simple low-light image enhancement based on Weber's Fechner law in logarithmic space. <i>Signal Processing: Image Communication</i> , 2022, 106, 116742.	3.2	41
30	Automatic feature point detection and tracking of human actions in time-of-flight videos. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017, 4, 677-685.	13.1	40
31	Automatic Urban Water-Body Detection and Segmentation From Sparse ALSM Data via Spatially Constrained Model-Driven Clustering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 73-77.	3.1	39
32	Extending self-organizing network availability using genetic algorithm. , 2014, , .		39
33	Stream Flow Forecasting of Poorly Gauged Mountainous Watershed by Least Square Support Vector Machine, Fuzzy Genetic Algorithm and M5 Model Tree Using Climatic Data from Nearby Station. <i>Water Resources Management</i> , 2018, 32, 4469-4486.	3.9	39
34	Bleeding detection from capsule endoscopy videos. , 2008, 2008, 4780-3.		36
35	Orthogonal Design-Based NSGA-III for the Optimal Lockage Co-Scheduling Problem. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 2085-2095.	8.0	36
36	An Improved NSGA-III Algorithm for Reservoir Flood Control Operation. <i>Water Resources Management</i> , 2017, 31, 4469-4483.	3.9	36

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37	Obscure bleeding detection in endoscopy images using support vector machines. Optimization and Engineering, 2009, 10, 289-299.	2.4	35
38	Parameter Identification of Nonlinear Muskingum Model with Backtracking Search Algorithm. Water Resources Management, 2016, 30, 2767-2783.	3.9	35
39	Adaptive wavelet shrinkage for noise robust speaker recognition. , 2014, 33, 180-190.		31
40	Collaborative task assignment of interconnected, affective robots towards autonomous healthcare assistant. Future Generation Computer Systems, 2019, 92, 241-251.	7.5	31
41	Reference Evapotranspiration Modeling Using New Heuristic Methods. Entropy, 2020, 22, 547.	2.2	30
42	Inverse Sparse Group Lasso Model for Robust Object Tracking. IEEE Transactions on Multimedia, 2017, 19, 1798-1810.	7.2	29
43	Emotion recognition based on fusion of long short-term memory networks and SVMs. , 2021, 117, 103153.		29
44	Mining negative association rules. , 0, , .		28
45	Short-Term Wind Speed Prediction Using EEMD-LSSVM Model. Advances in Meteorology, 2017, 2017, 1-22.	1.6	28
46	Investigation into the Effects of Climate Change on Reference Evapotranspiration Using the HadCM3 and LARS-WG. Water (Switzerland), 2020, 12, 666.	2.7	27
47	Short-Term Scheduling of Large-Scale Hydropower Systems for Energy Maximization. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 198-205.	2.6	25
48	A hybrid framework for automatic joint detection of human poses in depth frames. Pattern Recognition, 2018, 77, 216-225.	8.1	24
49	Attention-Based Dense Point Cloud Reconstruction From a Single Image. IEEE Access, 2019, 7, 137420-137431.	4.2	24
50	COVID-19 Detection from X-ray Images using Multi-Kernel-Size Spatial-Channel Attention Network. Pattern Recognition, 2021, 119, 108055.	8.1	24
51	Module overlapping structure detection in PPI using an improved link similarity-based Markov clustering algorithm. Neural Computing and Applications, 2019, 31, 1481-1490.	5.6	21
52	Application of fractional order-based grey power model in water consumption prediction. Environmental Earth Sciences, 2019, 78, 1.	2.7	20
53	Multiscaling Analysis of Monthly Runoff Series Using Improved MF-DFA Approach. Water Resources Management, 2014, 28, 3891-3903.	3.9	19
54	License plate detection and recognition using hierarchical feature layers from CNN. Multimedia Tools and Applications, 2019, 78, 15665-15680.	3.9	19

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55	Multi-scale feature identification using evolution strategies. <i>Image and Vision Computing</i> , 2005, 23, 555-563.	4.5	18
56	Ensure privacy and security in the process of medical image analysis. , 2013, , .		18
57	Multi-level structured hybrid forest for joint head detection and pose estimation. <i>Neurocomputing</i> , 2017, 266, 206-215.	5.9	18
58	Personality driven task allocation for emotional robot team. <i>International Journal of Machine Learning and Cybernetics</i> , 2018, 9, 1955-1962.	3.6	18
59	Application of soft computing models in streamflow forecasting. <i>Water Management</i> , 2019, 172, 123-134.	1.2	18
60	Controller placements for latency minimization of both primary and backup paths in SDNs. <i>Computer Communications</i> , 2020, 163, 35-50.	5.1	18
61	Clip-aware expressive feature learning for video-based facial expression recognition. <i>Information Sciences</i> , 2022, 598, 182-195.	6.9	18
62	Dynamic Taxi Service Planning by Minimizing Cruising Distance Without Passengers. <i>IEEE Access</i> , 2018, 6, 70005-70016.	4.2	17
63	Urban Land-Use Classification From Photographs. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 1927-1931.	3.1	17
64	An improved gravitational search algorithm for solving short-term economic/environmental hydrothermal scheduling. <i>Soft Computing</i> , 2015, 19, 2783-2797.	3.6	16
65	Application of improved bat algorithm in optimal power flow problem. <i>Applied Intelligence</i> , 2018, 48, 2304-2314.	5.3	16
66	Evolution strategies based image registration via feature matching. <i>Information Fusion</i> , 2004, 5, 269-282.	19.1	15
67	A multi-class boosting method for learning from imbalanced data. <i>International Journal of Granular Computing, Rough Sets and Intelligent Systems</i> , 2015, 4, 13.	0.3	15
68	A Wireless Sensor Network Recharging Strategy by Balancing Lifespan of Sensor Nodes. , 2017, , .		15
69	Adaptive Coherency Matrix Estimation for Polarimetric SAR Imagery Based on Local Heterogeneity Coefficients. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6732-6745.	6.3	14
70	CRNet: Classification and Regression Neural Network for Facial Beauty Prediction. <i>Lecture Notes in Computer Science</i> , 2018, , 661-671.	1.3	14
71	Coordinated optimized scheduling of locks and transshipment in inland waterway transportation using binary NSGA-II. <i>International Transactions in Operational Research</i> , 2020, 27, 1501-1525.	2.7	13
72	A hybrid method for muscle artifact removal from EEG signals. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109104.	2.5	13

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73	Contrast enhancement and assessment of OCT images. , 2012, , .		12
74	Non-convex dynamic dispatch of generators with prohibited operating zones. Optimal Control Applications and Methods, 2009, 30, 103-120.	2.1	11
75	An efficient method for image dehazing. , 2016, , .		11
76	Weak-Light Image Enhancement Method Based on Adaptive Local Gamma Transform and Color Compensation. Journal of Sensors, 2021, 2021, 1-18.	1.1	11
77	Weakly Supervised Deep Learning for Objects Detection from Images. Studies in Distributed Intelligence, 2020, , 231-242.	0.6	11
78	Cross-Category Mechanical Fault Diagnosis Based on Deep Few-Shot Learning. IEEE Sensors Journal, 2021, 21, 27698-27709.	4.7	11
79	Special issue on machine learning applications for self-organized wireless sensor networks. Neural Computing and Applications, 2019, 31, 1-2.	5.6	10
80	Color segmentation in multicolor images using node-growing self-organizing map. Color Research and Application, 2019, 44, 184-193.	1.6	10
81	An Adaptive Large Neighborhood Search for Solving Generalized Lock Scheduling Problem: Comparative Study With Exact Methods. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3344-3356.	8.0	10
82	Urban land-use analysis using proximate sensing imagery: a survey. International Journal of Geographical Information Science, 2021, 35, 2129-2148.	4.8	10
83	Digital forensics in social networks and the cloud: Process, approaches, methods, tools, and challenges. , 2015, , .		9
84	3D-FHNet: Three-Dimensional Fusion Hierarchical Reconstruction Method for Any Number of Views. IEEE Access, 2019, 7, 172902-172912.	4.2	9
85	Superpixel generation for polarimetric SAR using Hierarchical Energy maximization. Computers and Geosciences, 2020, 135, 104395.	4.2	9
86	A SAFSA- and Metabolism-Based Nonlinear Grey Bernoulli Model for Annual Water Consumption Prediction. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 755-765.	1.9	9
87	Parameter Identification of Integrated Model of Hydraulic Turbine Regulating System With Uncertainties Using Three Different Approaches. IEEE Transactions on Power Systems, 2017, 32, 3482-3491.	6.5	8
88	Intelligent data aggregation inspired paradigm and approaches in IoT applications. Journal of Intelligent and Fuzzy Systems, 2019, 37, 3-7.	1.4	8
89	A blockchain-based data storage framework: A rotating multiple random masters and error-correcting approach. Peer-to-Peer Networking and Applications, 2020, 13, 1486-1504.	3.9	8
90	Scale attentive network for scene recognition. Neurocomputing, 2022, 492, 612-623.	5.9	8

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91	A novel figure panel classification and extraction method for document image understanding. International Journal of Data Mining and Bioinformatics, 2014, 9, 22.	0.1	7
92	Automatic construction of aerial corridor for navigation of unmanned aircraft systems in class G airspace using LiDAR. , 2016, , .		7
93	Multi-objective Artificial Physical Optimization Algorithm for Daily Economic Environmental Dispatch of Hydrothermal Systems. Electric Power Components and Systems, 2016, 44, 533-543.	1.8	7
94	Fractal Dimension of Irregular Region of Interest Application to Corn Phenology Characterization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1402-1412.	4.9	7
95	A Fast and Accurate Retina Image Verification Method Based on Structure Similarity. , 2018, , .		7
96	Three-stage Stackelberg game based edge computing resource management for mobile blockchain. Peer-to-Peer Networking and Applications, 2021, 14, 1431-1445.	3.9	7
97	Subband noise estimation for adaptive wavelet shrinkage. , 2004, , .		6
98	Mining online full-text literature for novel protein interaction discovery. , 2010, , .		6
99	Optimizing Discriminability of Globally Binarized Face Templates. Arabian Journal for Science and Engineering, 2016, 41, 2837-2846.	1.1	6
100	Urban function zoning using geotagged photos and openstreetmap. , 2017, , .		6
101	An Efficient Code-Based Threshold Ring Signature Scheme with a Leader-Participant Model. Security and Communication Networks, 2017, 2017, 1-7.	1.5	6
102	Social- and Content-Aware Prediction for Video Content Delivery. IEEE Access, 2020, 8, 29219-29227.	4.2	6
103	Deep flight track clustering based on spatial-temporal distance and denoising auto-encoding. Expert Systems With Applications, 2022, 198, 116733.	7.6	6
104	A Cultural Algorithm for Scheduling of Hydro Producer in the Power Market. , 2008, , .		5
105	A Chaotic Hybrid Cultural Algorithm for Constrained Optimization. , 2008, , .		5
106	Research and Application of Data Mining for Runoff Forecasting. , 2008, , .		5
107	Segmentation of blurry object by learning from examples. Proceedings of SPIE, 2010, , .	0.8	5
108	Fusion of multi-planar images for improved three-dimensional object reconstruction. Computerized Medical Imaging and Graphics, 2011, 35, 373-382.	5.8	5

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109	Geographically weighted regression model for urban traffic black-spot analysis. , 2017, , .		5
110	Flight track pattern recognition based on few labeled data with outliers. Journal of Electronic Imaging, 2021, 30, .	0.9	5
111	A Wavelet-Based Noise-Aware Method for Fusing Noisy Imagery. , 2007, , .		4
112	An Adaptive Method for the Construction of Digital Terrain Model from Lidar Data. , 2008, , .		4
113	A Multiresolution Method for Tagline Detection and Indexing. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 507-513.	3.2	4
114	An airlight estimation method for image dehazing based on gray projection. Multimedia Tools and Applications, 2020, 79, 27185-27203.	3.9	4
115	Input and output strictly passive $H_\infty$ control of continuous switched singular systems. Computational and Applied Mathematics, 2020, 39, 1.	2.2	4
116	Kernel learning for blind image recovery from motion blur. Multimedia Tools and Applications, 2020, 79, 21873-21887.	3.9	4
117	Attention Pyramid Module for Scene Recognition. , 2021, , .		4
118	Registration of Human Point Set using Automatic Key Point Detection and Region-aware Features. , 2022, , .		4
119	Gradient convolutional neural network for classification of agricultural fields with contour levee. International Journal of Remote Sensing, 2022, 43, 75-94.	2.9	4
120	Co-Evolutionary Strategy Algorithm to the Lockage Scheduling of the Three Gorges Project. , 2008, , .		3
121	Simulation Based Parallel Genetic Algorithm to the Lockage Co-scheduling of the Three Gorges Project. , 2008, , .		3
122	Transmitting hidden information using steganography via Facebook. , 2014, , .		3
123	Multi-perspective terrestrial LiDAR point cloud registration using planar primitives. , 2016, , .		3
124	Superpixel-based classification using semantic information for polarimetric SAR imagery. , 2017, , .		3
125	Iterative asymmetric multiscale morphology and its application to fault detection for rolling element bearing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 316-330.	2.1	3
126	Non-rigid registration of point clouds using landmarks and stochastic neighbor embedding. Journal of Electronic Imaging, 2021, 30, .	0.9	3



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127	Generative adversarial network-enabled learning scheme for power grid vulnerability analysis. International Journal of Web and Grid Services, 2021, 17, 138.	0.5	3
128	Controller Placements for Improving Flow Set-Up Reliability of Software-Defined Networks. Studies in Distributed Intelligence, 2020, , 3-13.	0.6	3
129	Urban Scene Recognition via Deep Network Integration. Communications in Computer and Information Science, 2020, , 135-149.	0.5	3
130	Feature-based approach for image correspondence estimation. , 2002, , .		2
131	A Reliability and Risk Analysis System for Multipurpose Reservoir Operation. Environmental Fluid Mechanics, 2003, 3, 289-303.	1.6	2
132	Gradient Vector Flowdriven Active Shape for Image Segmentation. , 2007, , .		2
133	Incremental classification learning for anomaly detection in medical images. , 2009, , .		2
134	Learning from large dataset: segmentation of capsule endoscopy videos. International Journal of Functional Informatics and Personalised Medicine, 2012, 4, 1.	0.4	2
135	Boosting for learning from multiclass data sets via a regularized loss function. , 2013, , .		2
136	Binary biometric template generation towards security and class separability. , 2014, , .		2
137	Seperating Touching Particles: A Concavity-Based Method Using the Area Ratio of a Circular Mask. IEEE Systems, Man, and Cybernetics Magazine, 2018, 4, 24-32.	1.4	2
138	Coordination Scheduling of Wind-Hydropower Generation and Profit Allocation Based on Shapley Value Method. Mathematical Problems in Engineering, 2020, 2020, 1-20.	1.1	2
139	Protein functional module identification method combining topological features and gene expression data. BMC Genomics, 2021, 22, 423.	2.8	2
140	Stackelberg Game Based Edge Computing Resource Management for Mobile Blockchain. , 2020, , .		2
141	Point Set Registration of Large Deformation Using Auxiliary Landmarks. Communications in Computer and Information Science, 2020, , 86-98.	0.5	2
142	Computational vision approach to improve fusion performance. , 2002, , .		1
143	FUNCTION GRANULARITY ESTIMATION FOR MULTIMODAL OPTIMIZATION. International Journal on Artificial Intelligence Tools, 2005, 14, 199-213.	1.0	1
144	A pseudo wavelet-based method for accurate tagline tracing on tagged MR images of the tongue. , 2006, , .		1

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145	Resampling method for balancing training data in video analysis. Proceedings of SPIE, 2010, , .	0.8	1
146	Segmentation of CE videos by finding convex skin. , 2010, , .		1
147	A Boosting Method for Learning from Uneven Data for Improved Face Recognition. , 2012, , .		1
148	Improved image reconstruction from sub-apertures of circular spotlight SAR. , 2015, , .		1
149	Digital terrain model extraction in SUAS clearance survey using LiDar data. , 2016, , .		1
150	Electricity Cost Management for Cloud Data Centers under Diverse Delay Constraints. , 2016, , .		1
151	Erratum to "An Efficient Code-Based Threshold Ring Signature Scheme with a Leader-Participant Model" Security and Communication Networks, 2017, 2017, 1-1.	1.5	1
152	Touching particles separation based on area ratio of circular mask. , 2017, , .		1
153	Parameter estimation of chaotic systems based on extreme value points. Pramana - Journal of Physics, 2019, 92, 1.	1.8	1
154	Expectation-based 3D edge bundling. Multimedia Tools and Applications, 2019, 78, 35099-35118.	3.9	1
155	A Unified Coherent-Incoherent Target Decomposition Method for Polarimetric SAR. Studies in Distributed Intelligence, 2020, , 69-79.	0.6	1
156	Secure Medical Image Processing for Mobile Devices Using Cloud Services. , 0, , .		1
157	Automatic Construction of Aerial Corridor from Discrete LiDAR Point Cloud. Studies in Big Data, 2018, , 449-465.	1.1	1
158	Hybrid fusion approach based on fuzzy feature and evidential reasoning. , 0, , .		0
159	Fusing multiple images with evidential reasoning. , 2003, , .		0
160	Subspace FDC for sharing distance estimation. , 0, , .		0
161	Image registration using shape-constrained mutual information and genetic algorithms. , 2006, , .		0
162	An accurate tongue tissue strain synthesis using pseudo-wavelet reconstruction-based tagline detection. , 2007, , .		0

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163	A Preprocessing Method for Automatic Break Lines Detection. , 2008, , .		0
164	A model-driven classification and recursive segmentation method for automatic panel extraction from biological and medical papers. , 2010, , .		0
165	Image registration error analysis using pattern recognition algorithms. , 2010, , .		0
166	Improving classification performance for the minority class in highly imbalanced dataset using boosting. , 2012, , .		0
167	Micro-mirror array simulation and far-field diffraction analysis. , 2014, , .		0
168	Evaluation of entropy/alpha/anisotropy based on adaptive coherency matrix estimation. , 2016, , .		0
169	Improved Action Recognition Using an Efficient Boosting Method. Communications in Computer and Information Science, 2012, , 193-202.	0.5	0
170	SampleBoost for Capsule Endoscopy Categorization and Abnormality Detection. Communications in Computer and Information Science, 2012, , 285-294.	0.5	0
171	A Task-Aware Network for Multi-task Learning. Communications in Computer and Information Science, 2020, , 47-58.	0.5	0
172	A Thin Client Error-Correcting Data Storage Framework Based on Blockchain. Studies in Distributed Intelligence, 2020, , 29-38.	0.6	0