Zhihan Lv

List of Publications by Year in Descending Order

121 papers	3,880 citations	37 h-index	58 g-index
135 ext. papers	4,897 ext. citations	4.3 avg, IF	6.8 L-index

#	Paper	IF	Citations
121	Big data analysis of the Internet of Things in the digital twins of smart city based on deep learning. *Future Generation Computer Systems*, **2022**, 128, 167-177	7.5	44
120	Digital Twins Based VR Simulation for Accident Prevention of Intelligent Vehicle. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	0
119	The Scanner of Heterogeneous Traffic Flow in Smart Cities by an Updating Model of Connected and Automated Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-10	6.1	0
118	Digital Twins-Based Automated Pilot for Energy-Efficiency Assessment of Intelligent Transportation Infrastructure. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-11	6.1	1
117	Personalized Situation Adaptive Human-Vehicles-Interaction (HVI) Prediction in COVID-19 Context. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10	6.1	
116	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10	6.1	27
115	Advanced Machine-Learning Methods for Brain-Computer Interfacing. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2021**, 18, 1688-1698	3	52
114	Guest Editorial Software Defined Internet of Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3504-3510	6.1	1
113	Medical image fusion method by deep learning. *International Journal of Cognitive Computing in Engineering*, **2021**, 2, 21-29	1.1	101
112	Semi-Supervised Support Vector Machine for Digital Twins Based Brain Image Fusion. *Frontiers in Neuroscience*, **2021**, 15, 705323	5.1	104
111	Trustworthiness in Industrial IoT Systems Based on Artificial Intelligence. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 1496-1504	11.9	102
110	Industrial Security Solution for Virtual Reality. *IEEE Internet of Things Journal*, **2021**, 8, 6273-6281	10.7	41
109	Big Data Analysis Technology for Electric Vehicle Networks in Smart Cities. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 1807-1816	6.1	29
108	Deep-Learning-Enabled Security Issues in the Internet of Things. *IEEE Internet of Things Journal*, **2021**, 8, 9531-9538	10.7	40
107	Artificial intelligence for securing industrial-based cyberphysical systems. *Future Generation Computer Systems*, **2021**, 117, 291-298	7.5	48
106	Cyber security in smart cities: A review of deep learning-based applications and case studies. *Sustainable Cities and Society*, **2021**, 66, 102655	10.1	44
105	AI Empowered Communication Systems for Intelligent Transportation Systems. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 4579-4587	6.1	26

104	A Novel Approach for Upper Limb Functionality Assessment Based on Deep Learning and Multimodal Sensing Data. *IEEE Access*, **2021**, 9, 77138-77148	3.5	2
103	Upper Limb Rehabilitation System for Stroke Survivors Based on Multi-Modal Sensors and Machine Learning. *IEEE Access*, **2021**, 9, 30283-30291	3.5	10
102	Research on Disease Prediction Based on Improved DeepFM and IoMT. *IEEE Access*, **2021**, 9, 39043-39054	3.5	46
101	AI-empowered IoT Security for Smart Cities. *ACM Transactions on Internet Technology*, **2021**, 21, 1-21	3.8	19
100	Fuzzy System Based Medical Image Processing for Brain Disease Prediction. *Frontiers in Neuroscience*, **2021**, 15, 714318	5.1	143
99	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 5275-5282	6.1	24
98	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10	6.1	1
97	Digital Twins in Unmanned Aerial Vehicles for Rapid Medical Resource Delivery in Epidemics. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-9	6.1	16
96	Deep Learning in Security of Internet of Things. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	26
95	Studies on the synthesis, surface activity and the ability to form pH-regulated wormlike micelles with surfactant containing carboxyl group. *Journal of Molecular Liquids*, **2020**, 309, 113182	6	6
94	A multi-user multi-operator computing pricing method for Internet of things based on bi-level optimization. *International Journal of Distributed Sensor Networks*, **2020**, 16, 155014771990011	1.7	1
93	Optimization of collaborative resource allocation for mobile edge computing. *Computer Communications*, **2020**, 161, 19-27	5.1	25
92	BIM Big Data Storage in WebVRGIS. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2566-2573	11.9	79
91	Infrastructure Monitoring and Operation for Smart Cities Based on IoT System. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 1957-1962	11.9	87
90	Intelligent Security Planning for Regional Distributed Energy Internet. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 3540-3547	11.9	66
89	Virtual reality in the context of Internet of Things. *Neural Computing and Applications*, **2020**, 32, 9593-9602	4.8	37
88	Robust3D: a robust 3D face reconstruction application. *Neural Computing and Applications*, **2020**, 32, 8893-8900	4.8	4
87	pH-Switchable molecular self-assemblies in surface active ionic liquid/anionic surfactant mixed system. *Journal of Molecular Liquids*, **2019**, 278, 195-200	6	7

86	Second-harmonic phase-matching based on zero refractive index materials. *Japanese Journal of Applied Physics*, **2019**, 58, 072005	1.4	
85	Exclusive generation of orbital angular momentum modes in parity-time symmetry fiber gratings. *Applied Physics Letters*, **2019**, 114, 141103	3.4	1
84	Roles of root cell wall components and root plaques in regulating elemental uptake in rice subjected to selenite and different speciation of antimony. *Environmental and Experimental Botany*, **2019**, 163, 36-44	5.9	23
83	A near-optimal cloud offloading under multi-user multi-radio environments. *Peer-to-Peer Networking and Applications*, **2019**, 12, 1454-1465	3.1	4
82	UAV-assisted wireless relay networks for mobile offloading and trajectory optimization. *Peer-to-Peer Networking and Applications*, **2019**, 12, 1820-1834	3.1	6
81	Design of a low-crosstalk half-wavelength pitch nano-structured silicon waveguide array. *Optics Letters*, **2019**, 44, 3266-3269	3	7
80	The Influence of Swell on the Atmospheric Boundary Layer under Nonneutral Conditions. *Journal of Physical Oceanography*, **2018**, 48, 925-936	2.4	8
79	Optimal Cooperative Wireless Communication for Mobile User Data Offloading. *IEEE Access*, **2018**, 6, 16224-16234	3.5	9
78	A Joint Multi-Criteria Utility-Based Network Selection Approach for Vehicle-to-Infrastructure Networking. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 3305-3319	6.1	177
77	Quality assessment for virtual reality technology based on real scene. *Neural Computing and Applications*, **2018**, 29, 1199-1208	4.8	10
76	MCRS: A course recommendation system for MOOCs. *Multimedia Tools and Applications*, **2018**, 77, 7051-7069	2.9	34
75	Synthesis of barbituric acid doped carbon nitride for efficient solar-driven photocatalytic degradation of aniline. *Applied Surface Science*, **2018**, 428, 739-747	6.7	19
74	Soft frequency reuse-based optimization algorithm for energy efficiency of multi-cell networks. *Computers and Electrical Engineering*, **2018**, 66, 316-331	4.3	31
73	Synergistic effect of Cu-ion and WO 3 nanofibers on the enhanced photocatalytic degradation of Rhodamine B and aniline solution. *Applied Surface Science*, **2018**, 451, 306-314	6.7	30
72	Analyzing modal power in multi-mode waveguide via machine learning. *Optics Express*, **2018**, 26, 22100-22109	3.9	10
71	Enhanced Modal Coupling Loss in a Two-Mode SOI Waveguide of Broken Parity-Time Symmetry. *IEEE Photonics Journal*, **2018**, 10, 1-9	1.8	2
70	Optimal Content Caching Policy Considering Mode Selection and User Preference under Overlay D2D Communications **2018**,		3
69	Joint Optimization of Traffic and Computation Offloading in UAV-Assisted Wireless Networks **2018** ,		5

68	High performance ultra-compact SOI waveguide crossing. *Optics Express*, **2018**, 26, 25602-25610	3.3	15
67	A joint optimization method for data offloading in D2D-enabled cellular networks **2018**,		1
66	Towards a face recognition method based on uncorrelated discriminant sparse preserving projection. *Multimedia Tools and Applications*, **2017**, 76, 17669-17683	2.5	34
65	Change detection method for remote sensing images based on an improved Markov random field. *Multimedia Tools and Applications*, **2017**, 76, 17719-17734	2.5	51
64	A Bayesian approach for sleep and wake classification based on dynamic time warping method. *Multimedia Tools and Applications*, **2017**, 76, 17765-17784	2.5	27
63	Multimedia cloud transmission and storage system based on internet of things. *Multimedia Tools and Applications*, **2017**, 76, 17735-17750	2.5	64
62	Assessment of lively street network based on geographic information system and space syntax. *Multimedia Tools and Applications*, **2017**, 76, 17801-17819	2.5	45
61	A Distributed Parallel Cooperative Coevolutionary Multiobjective Evolutionary Algorithm for Large-Scale Optimization. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 2030-2038	11.9	53
60	. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 1979-1988	11.9	8
59	A real-time image dehazing method considering dark channel and statistics features. *Journal of Real-Time Image Processing*, **2017**, 13, 479-490	1.9	7
58	A Cyber-Physical System for Product Conceptual Design Based on an Intelligent Psycho-Physiological Approach. *IEEE Access*, **2017**, 5, 5378-5387	3.5	9
57	Toward architectural and protocol-level foundation for end-to-end trustworthiness in Cloud/Fog computing. *IEEE Transactions on Big Data*, **2017**, 1-1	3.2	13
56	PMU Placement in Electric Transmission Networks for Reliable State Estimation Against False Data Injection Attacks. *IEEE Internet of Things Journal*, **2017**, 4, 1978-1986	10.7	33
55	Modeling network traffic for traffic matrix estimation and anomaly detection based on Bayesian network in cloud computing networks. *Annales Des Telecommunications/Annals of Telecommunications*, **2017**, 72, 297-305	2	21
54	Nonrigid Optical Flow Ground Truth for Real-World Scenes With Time-Varying Shading Effects. *IEEE Robotics and Automation Letters*, **2017**, 2, 231-238	4.2	8
53	An energy-efficient cooperative multicast routing in multi-hop wireless networks for smart medical applications. *Neurocomputing*, **2017**, 220, 160-169	5.4	120
52	3D character recognition using binocular camera for medical assist. *Neurocomputing*, **2017**, 220, 17-22	5.4	8
51	Maximum connectivity-based channel allocation algorithm in cognitive wireless networks for medical applications. *Neurocomputing*, **2017**, 220, 41-51	5.4	21

50	Cyclist Social Force Model at Unsignalized Intersections With Heterogeneous Traffic. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 782-792	11.9	27
49	Empirical Analysis and Modeling of the Activity Dilemmas in Big Social Networks. *IEEE Access*, **2017**, 5, 967-974	3.5	6
48	Research on medical applications of contrast sensitivity function to red-green gratings in 3D space. *Neurocomputing*, **2017**, 220, 34-40	5.4	2
47	Rapid Delaunay triangulation for randomly distributed point cloud data using adaptive Hilbert curve. *Computers and Graphics*, **2016**, 54, 65-74	1.8	53
46	An energy-efficient multicast algorithm with maximum network throughput in multi-hop wireless networks. *Journal of Communications and Networks*, **2016**, 18, 713-724	4.1	38
45	A multicast delivery approach with minimum energy consumption for wireless multi-hop networks. *Telecommunication Systems*, **2016**, 62, 771-782	2.3	33
44	Coverage-enhancing approach in multimedia directional sensor networks for smart transportation. *Multimedia Tools and Applications*, **2016**, 75, 17593-17615	2.5	6
43	Spatio-Temporal Kronecker Compressive Sensing for Traffic Matrix Recovery. *IEEE Access*, **2016**, 4, 3046-3053	3.9	39
42	The research on optimization of auto supply chain network robust model under macroeconomic fluctuations. *Chaos, Solitons and Fractals*, **2016**, 89, 105-114	9.3	15
41	Design of intelligent recognition system based on gait recognition technology in smart transportation. *Multimedia Tools and Applications*, **2016**, 75, 17501-17514	2.5	7
40	WebVRGIS based traffic analysis and visualization system. *Advances in Engineering Software*, **2016**, 93, 1-8	3.6	35
39	Implementing two methods in GIS software for indoor routing: an empirical study. *Multimedia Tools and Applications*, **2016**, 75, 17449-17464	2.5	2
38	Collaborative Multi-hop Routing in Cognitive Wireless Networks. *Wireless Personal Communications*, **2016**, 86, 901-923	1.9	59
37	Development and Characterization a Single-Active-Chamber Piezoelectric Membrane Pump with Multiple Passive Check Valves. *Sensors*, **2016**, 16,	3.8	25
36	General analysis of SRS-limited high-power fiber lasers and design strategy. *Optics Express*, **2016**, 24, 26715-26721	3.3	63
35	An online marking system conducive to learning. *Journal of Intelligent and Fuzzy Systems*, **2016**, 31, 2463-2471	2.6	5
34	Multimedia security in laboratory system based on cloud platform. *Journal of Intelligent and Fuzzy Systems*, **2016**, 31, 2473-2481	1.6	1
33	Mathematical Models for Simulating Coded Digital Communication: A Comprehensive Tutorial by Big Data Analytics in Cyber-Physical Systems. *IEEE Access*, **2016**, 4, 9018-9026	3.5	3

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32	Investigation of stimulated Raman scattering effect in high-power fiber amplifiers seeded by narrow-band filtered superfluorescent source. *Optics Express*, **2016**, 24, 8708-17	3.3	29
31	Energy-Efficient Multi-Constraint Routing Algorithm With Load Balancing for Smart City Applications. *IEEE Internet of Things Journal*, **2016**, 3, 1437-1447	10.7	164
30	Traffic Management and Forecasting System Based on 3D GIS **2015**,		21
29	3.15 kW direct diode-pumped near diffraction-limited all-fiber-integrated fiber laser. *Applied Optics*, **2015**, 54, 4556-60	1.7	47
28	Touch-less interactive augmented reality game on vision-based wearable device. *Personal and Ubiquitous Computing*, **2015**, 19, 551-567	2.1	161
27	293 W, GHz narrow-linewidth, polarization maintaining nanosecond fiber amplifier with SBS suppression employing simultaneous phase and intensity modulation. *Optics Express*, **2015**, 23, 25896-905	3.3	9
26	A Real-Time Monitoring System of Industry Carbon Monoxide Based on Wireless Sensor Networks. *Sensors*, **2015**, 15, 29535-46	3.8	79
25	A Low-Power and Portable Biomedical Device for Respiratory Monitoring with a Stable Power Source. *Sensors*, **2015**, 15, 19618-32	3.8	52
24	A Self-Assessment Stereo Capture Model Applicable to the Internet of Things. *Sensors*, **2015**, 15, 20925-44	3.8	76
23	Quality Index for Stereoscopic Images by Separately Evaluating Adding and Subtracting. *PLoS ONE*, **2015**, 10, e0145800	3.7	38
22	Virtual geographic environment based coach passenger flow forecasting **2015**,		8
21	Quantitative measurement of CO2laser-induced residual stress in fused silica optics. *Optical Engineering*, **2015**, 54, 057105	1.1	2
20	ARPPS: Augmented Reality Pipeline Prospect System. *Lecture Notes in Computer Science*, **2015**, 647-656	0.9	12
19	Dynamic systems based on preference graph and distance. *Discrete and Continuous Dynamical Systems - Series S*, **2015**, 8, 1139-1154	2.8	11
18	Virtual Reality Based GIS Analysis Platform. *Lecture Notes in Computer Science*, **2015**, 638-645	0.9	16
17	The effect of a seasonal stratification variation on the load exerted by internal solitary waves on a cylindrical pile. *Acta Oceanologica Sinica*, **2014**, 33, 21-26	1	12
16	3D seabed: 3D modeling and visualization platform for the seabed **2014**,		1
15	Multimodal Hand and Foot Gesture Interaction for Handheld Devices. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2014**, 11, 1-19	3.4	69

14	Bulk damage and stress behavior of fused silica irradiated by nanosecond laser. *Optical Engineering*, **2014**, 53, 047103	1.1	5
13	Single-frequency pulsed Brillouin-thulium fiber laser at 2 μm with nonlinear polarization rotation and active phase modulation. *Applied Physics Express*, **2014**, 7, 102701	2.4	3
12	The role of exogenous neural stem cells transplantation in cerebral ischemic stroke. *Journal of Biomedical Nanotechnology*, **2014**, 10, 3219-30	4	25
11	Tuning the K+ concentration in the tunnel of OMS-2 nanorods leads to a significant enhancement of the catalytic activity for benzene oxidation. *Environmental Science & Technology*, **2013**, 47, 13730-6	10.3	163
10	Effect of delivery room temperature on the admission temperature of premature infants: a randomized controlled trial. *Journal of Perinatology*, **2013**, 33, 264-7	3.1	40
9	Game on, science - how video game technology may help biologists tackle visualization challenges. *PLoS ONE*, **2013**, 8, e57990	3.7	151
8	A Framework for Multi-Dimensional WebGIS Based Interactive Online Virtual Community. *Advanced Science Letters*, **2012**, 7, 215-219	0.1	19
7	WebVR—Web Virtual Reality Engine Based on P2P network. *Journal of Networks*, **2011**, 6,		31
6	The propagating speed of internal solitary waves investigated by X-band radar near Dongsha island **2010**,		1
5	The damage mechanisms of fused silica irradiated by 355 nm laser in vacuum. *Nuclear Instruments & Methods in Physics Research B*, **2008**, 266, 2936-2940	1.2	12
4	Recovery of fused silica surface damage resistance by ion beam etching. *Nuclear Instruments & Methods in Physics Research B*, **2008**, 266, 3370-3374	1.2	8
3	Laser-induced defects in fused silica by UV laser irradiation. *Journal of Non-Crystalline Solids*, **2007**, 353, 4212-4217	3.9	10
2	TVS: a trusted verification scheme for office documents based on blockchain. *Complex & Intelligent Systems*,1	7.1	1
1	MeetDurian: Can Location-Based Games be Used to Improve COVID-19 Hygiene Habits?. *Games and Culture*,155541202110495	1.9	