WenZhan Song

List of Publications by Year
in descending order

85	1,415	361296	395590
85 papers	**1,415** citations	**20** h-index	**33** g-index
87 all docs	**87** docs citations	**87** times ranked	**1242** citing authors

#	Article	IF	Citations
1	Enhanced Cyber-Physical Security in Internet of Things Through Energy Auditing. IEEE Internet of Things Journal, 2019, 6, 5224-5231.	5.5	79
2	The Internet of Things Meets Business Process Management: A Manifesto. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 34-44.	1.2	79
3	Smart Seismic Sensing for Indoor Fall Detection, Location, and Notification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 524-532.	3.9	77
4	A Real-Time Electricity Scheduling for Residential Home Energy Management. IEEE Internet of Things Journal, 2019, 6, 2602-2611.	5.5	74
5	System Statistics Learning-Based IoT Security: Feasibility and Suitability. IEEE Internet of Things Journal, 2019, 6, 6396-6403.	5.5	67
6	Detection and Diagnosis of Data Integrity Attacks in Solar Farms Based on Multilayer Long Short-Term Memory Network. IEEE Transactions on Power Electronics, 2021, 36, 2495-2498.	5.4	57
7	Detection and Identification of Cyber and Physical Attacks on Distribution Power Grids With PVs: An Online High-Dimensional Data-Driven Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1282-1291.	3.7	48
8	A Review of Cyber–Physical Security for Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4879-4901.	3.7	47
9	Fusion of Visible Light Indoor Positioning and Inertial Navigation Based on Particle Filter. IEEE Photonics Journal, 2017, 9, 1-13.	1.0	42
10	Online Distributed IoT Security Monitoring With Multidimensional Streaming Big Data. IEEE Internet of Things Journal, 2020, 7, 4387-4394.	5.5	41
11	Smart Home Monitoring System via Footstep-Induced Vibrations. IEEE Systems Journal, 2020, 14, 3383-3389.	2.9	39
12	Systematic Assessment of Cyber-Physical Security of Energy Management System for Connected and Automated Electric Vehicles. IEEE Transactions on Industrial Informatics, 2021, 17, 3335-3347.	7.2	36
13	Cyber–Physical Security of Powertrain Systems in Modern Electric Vehicles: Vulnerabilities, Challenges, and Future Visions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4639-4657.	3.7	32
14	Ambient intelligence and wearable computing: Sensors on the body, in the home, and beyond. Journal of Ambient Intelligence and Smart Environments, 2009, 1, 83-86.	0.8	31
15	Vulnerability Assessments of Electric Drive Systems Due to Sensor Data Integrity Attacks. IEEE Transactions on Industrial Informatics, 2020, 16, 3301-3310.	7.2	30
16	Optimal Seismic Reflectivity Inversion: Data-Driven ℓ_p -Loss-ℓ_q -Regularization Sparse Regression. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 806-810.	1.4	29
17	Energy Management of Islanded Nanogrids Through Nonlinear Optimization Using Stochastic Dynamic Programming. IEEE Transactions on Industry Applications, 2020, 56, 2129-2137.	3.3	27
18	Separation of scattering and intrinsic attenuation at Asama volcano (Japan): Evidence of high volcanic structural contrasts. Journal of Volcanology and Geothermal Research, 2017, 333-334, 96-103.	0.8	24

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19	Research on cloud energy storage service in residential microgrids. IET Renewable Power Generation, 2019, 13, 3097-3105.	1.7	24
20	Opportunistic communications based on distributed width-controllable braided multipath routing in wireless sensor networks. Ad Hoc Networks, 2016, 36, 349-367.	3.4	22
21	Toward Creating a Subsurface Camera. Sensors, 2019, 19, 301.	2.1	20
22	Indoor Person Identification and Fall Detection through Non-intrusive Floor Seismic Sensing. , 2019, , .		19
23	Data-driven Cyberattack Detection for Photovoltaic (PV) Systems through Analyzing Micro-PMU Data. , 2020, , .		19
24	Real-Time Cooperative Analytics for Ambient Noise Tomography in Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 375-389.	1.6	18
25	Fast distributed demand response algorithm in smart grid. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 280-296.	8.5	17
26	Waveform Inversion-Assisted Distributed Reverse Time Migration for Microseismic Location. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1327-1332.	2.3	17
27	Adaptive Hierarchical Cyber Attack Detection and Localization in Active Distribution Systems. IEEE Transactions on Smart Grid, 2022, 13, 2369-2380.	6.2	17
28	Optimizing thermal comfort considerations with electrical demand response program implementation. Building Services Engineering Research and Technology, 2018, 39, 219-231.	0.9	16
29	Optimized Autonomous Space In-situ Sensor-Web for Volcano Monitoring. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	15
30	Real-Time Ambient Noise Subsurface Imaging in Distributed Sensor Networks. , 2017, , .		15
31	Smart Sleep Monitoring System via Passively Sensing Human Vibration Signals. IEEE Sensors Journal, 2021, 21, 14466-14473.	2.4	15
32	Fog computing middleware for distributed cooperative data analytics. , 2017, , .		14
33	Impact Analysis of Data Integrity Attacks on Power Electronics and Electric Drives. , 2019, , .		14
34	Exploration of Icy Ocean Worlds Using Geophysical Approaches. Planetary Science Journal, 2021, 2, 150.	1.5	14
35	Design of smart sensing component for volcano monitoring. , 2008, , .		12
36	Automatic arrival identification system for real-time microseismic event location. , 2017, , .		12

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37	Network Phenotyping for Network Traffic Classification and Anomaly Detection. , 2018, , .		11
38	ASIS: Autonomous Seismic Imaging System With <i>In Situ</i> Data Analytics and Renewable Energy. IEEE Systems Journal, 2020, 14, 1277-1284.	2.9	11
39	Helena: Real-time Contact-free Monitoring of Sleep Activities and Events around the Bed. , 2020, , .		11
40	Health and sleep nursing assistant for real-time, contactless, and non-invasive monitoring. Pervasive and Mobile Computing, 2021, 75, 101422.	2.1	11
41	Energy audition based cyber-physical attack detection system in IoT. , 2019, , .		11
42	Efficient Seismic Source Localization Using Simplified Gaussian Beam Time Reversal Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4472-4478.	2.7	10
43	Distributed Sensor Networks Based Shallow Subsurface Imaging and Infrastructure Monitoring. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 241-250.	1.6	10
44	Augmented reality technology in image-guided therapy: State-of-the-art review. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 1386-1398.	1.0	10
45	Cacades: A reliable dissemination protocol for data collection sensor network. , 2009, , .		9
46	Smart seismic network for shallow subsurface imaging and infrastructure security. International Journal of Sensor Networks, 2019, 31, 10.	0.2	9
47	An inertial measurement unit tracking system for body movement in comparison with optical tracking. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 728-737.	1.0	9
48	Data-Driven Cyber-Attack Detection for PV Farms via Time-Frequency Domain Features. IEEE Transactions on Smart Grid, 2022, 13, 1582-1597.	6.2	9
49	Live Web: A sensorweb portal for sensing the world in real-time. Tsinghua Science and Technology, 2011, 16, 491-504.	4.1	8
50	NON-INTRUSIVE AND NON-CONTACT SLEEP MONITORING WITH SEISMOMETER. , 2018, , .		8
51	Data integrity attack detection in smart grid: a deep learning approach. International Journal of Security and Networks, 2020, 15, 15.	0.1	8
52	Attack-Resilient Lateral Stability Control for Four-Wheel-Driven EVs Considering Changed Driver Behavior Under Cyber Threats. IEEE Transactions on Transportation Electrification, 2022, 8, 1362-1375.	5.3	8
53	Vulnerability Assessments for Power-Electronics-Based Smart Grids. , 2020, , .		8
54	Dynamic Time-frequency Feature Extraction for Brain Activity Recognition. , 2018, 2018, 3104-3107.		7

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55	Distributed and Communication-Efficient Spatial Auto-Correlation Subsurface Imaging in Sensor Networks. Sensors, 2019, 19, 2427.	2.1	7
56	Condition Monitoring and Fault Diagnosis of Generators in Power Networks. , 2019, , .		7
57	Self-Reactive Planning of Multi-Robots with Dynamic Task Assignments. , 2019, , .		7
58	Learning Discriminative Virtual Sequences for Time Series Classification. , 2020, , .		7
59	Imaging Subsurface Civil Infrastructure with Smart Seismic Network. , 2018, , .		5
60	Ambient Noise Tomography With Common Receiver Clusters in Distributed Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 656-666.	1.6	5
61	Supporting Technologies for COVID-19 Prevention: Systemized Review. Jmirx Med, 2022, 3, e30344.	0.2	5
62	Over the Air Programming on Imote2-Based Sensor Networks. , 2010, , .		4
63	Real-time In-situ Seismic Imaging: Overview and Case Study. , 2015, , .		4
64	Distributed Software Emulator for Cyber-Physical Analysis in Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 506-517.	3.2	4
65	Decentralized consensus in distributed networks. International Journal of Parallel, Emergent and Distributed Systems, 2018, 33, 550-569.	0.7	4
66	Non-harmonic Analysis Based Instantaneous Heart Rate Estimation from Photoplethysmography. , 2019, , .		4
67	Distributed Cooperative Energy Management in Smart Microgrids with Solar Energy Prediction. , 2018, , .		3
68	Demo: Contactless Device for Monitoring On-Bed Activities and Vital Signs. , 2019, , .		3
69	Optimum Energy Management of Islanded Nanogrids through Nonlinear Stochastic Dynamic Programming. , 2019, , .		3
70	Online seismic event picking via sequential change-point detection. , 2016, , .		2
71	LARGE SCALE RANDOMIZED LEARNING GUIDED BY PHYSICAL LAWS WITH APPLICATIONS IN FULL WAVEFORM INVERSION. , 2018, 2018, 66-70.		2
72	OPTIMAL DATA TASK DISTRIBUTION FOR BALANCING ENERGY CONSUMPTION ON COOPERATIVE FOG NETWORKS. , 2018, , .		2

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73	Communication Efficient Signal Detection for Distributed Ambient Noise Imaging. , 2018, , .		2
74	Tracking Underground Moving Targets with Wireless Seismic Networks. , 2019, , .		2
75	Decentralized multigrid for in-situ big data computing. Tsinghua Science and Technology, 2015, 20, 545-559.	4.1	1
76	Low-Rank Matrix Completion for Distributed Ambient Noise Imaging Systems. , 2019, , .		1
77	High-Frequency Time-Lapse Seismic Spatial Autocorrelation Imaging Shallow Velocity Variations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5385-5390.	2.3	1
78	Underground Microseismic Event Monitoring and Localization within Sensor Networks. Sensors, 2021, 21, 2830.	2.1	1
79	Towards catheter steering using magnetic tractor beam coupling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 583-591.	1.0	1
80	Data-driven cyber-attack detection for photovoltaic systems: A transfer learning approach. , 2022, , .		1
81	Autonomous Sensorweb Operations for Integrated Space In Situ Monitoring of Volcanic Activity. , 2010, , .		0
82	Special issue on fog networks. Journal of Communications and Networks, 2018, 20, 233-236.	1.8	0
83	A Statistical Summary Analysis of Window-Based Extracted Features for EEG Signal Classification. , 2021, , .		0
84	Contact-less Home Activity Tracking System with Floor Seismic Sensor Network. , 2021, , .		0
85	Authors' Responses to Peer Reviews of â€œSupporting Technologies for COVID-19 Prevention: Systemized Reviewâ€. Jmirx Med, 2022, 3, e38693.	0.2	0