

# Zhenghua Chen

## List of Publications by Year in descending order

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62  
papers

5,285  
citations

168829

31  
h-index

223390

49  
g-index

63  
all docs

63  
docs citations

63  
times ranked

5668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Supervised Autoregressive Domain Adaptation for Time Series Data. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1341-1351.	7.2	9
2	Privacy-Preserving Cross-Environment Human Activity Recognition. IEEE Transactions on Cybernetics, 2023, 53, 1765-1775.	6.2	13
3	KDnet-RUL: A Knowledge Distillation Framework to Compress Deep Neural Networks for Machine Remaining Useful Life Prediction. IEEE Transactions on Industrial Electronics, 2022, 69, 2022-2032.	5.2	36
4	Contrastive adversarial knowledge distillation for deep model compression in time-series regression tasks. Neurocomputing, 2022, 485, 242-251.	3.5	14
5	Modelling and scheduling integration of distributed production and distribution problems via black widow optimization. Swarm and Evolutionary Computation, 2022, 68, 101015.	4.5	25
6	Conditional Contrastive Domain Generalization for Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	35
7	Bi-LSTM-Based Two-Stream Network for Machine Remaining Useful Life Prediction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	28
8	An Attention Based CNN-LSTM Approach for Sleep-Wake Detection With Heterogeneous Sensors. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3270-3277.	3.9	31
9	A Novel Ensemble Deep Learning Approach for Sleep-Wake Detection Using Heart Rate Variability and Acceleration. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 803-812.	3.4	9
10	Machine Remaining Useful Life Prediction via an Attention-Based Deep Learning Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 2521-2531.	5.2	252
11	Key Nodes Selection in Controlling Complex Networks via Convex Optimization. IEEE Transactions on Cybernetics, 2021, 51, 52-63.	6.2	6
12	Contrastive Adversarial Domain Adaptation for Machine Remaining Useful Life Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 5239-5249.	7.2	65
13	Detecting the shuttlecock for a badminton robot: A YOLO based approach. Expert Systems With Applications, 2021, 164, 113833.	4.4	54
14	Adversarial Multiple-Target Domain Adaptation for Fault Classification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	35
15	A joint classification-regression method for multi-stage remaining useful life prediction. Journal of Manufacturing Systems, 2021, 58, 109-119.	7.6	48
16	An Attention-Based Deep Learning Approach for Sleep Stage Classification With Single-Channel EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 809-818.	2.7	225
17	Decoupled Feature-Temporal CNN: Explaining Deep Learning-Based Machine Health Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	16
18	Degradation-Aware Remaining Useful Life Prediction With LSTM Autoencoder. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	56

#	ARTICLE	IF	CITATIONS
19	Device-free single-user activity recognition using diversified deep ensemble learning. Applied Soft Computing Journal, 2021, 102, 107066.	4.1	29
20	Attention-based sequence to sequence model for machine remaining useful life prediction. Neurocomputing, 2021, 466, 58-68.	3.5	35
21	Over-fitting suppression training strategies for deep learning-based atrial fibrillation detection. Medical and Biological Engineering and Computing, 2021, 59, 165-173.	1.6	32
22	Multi-feature Fused Bidirectional Long Short-term Memory for Remaining Useful Life Prediction. , 2021, , .		1
23	Partial Video Domain Adaptation with Partial Adversarial Temporal Attentive Network. , 2021, , .		12
24	WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. IEEE Systems Journal, 2020, 14, 3001-3010.	2.9	102
25	Smartphone Sensor-Based Human Activity Recognition Using Feature Fusion and Maximum Full <i>a Posteriori</i>. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3992-4001.	2.4	63
26	Light Sensor Based Occupancy Estimation via Bayes Filter With Neural Networks. IEEE Transactions on Industrial Electronics, 2020, 67, 5787-5797.	5.2	11
27	Bayesian filtering for building occupancy estimation from carbon dioxide concentration. Energy and Buildings, 2020, 206, 109566.	3.1	24
28	Decoupled Feature-Temporal CNN: Explaining Deep Learning-Based Machine Health Monitoring. , 2020, , .		1
29	Mahalanobis Distance Based Adversarial Network for Anomaly Detection. , 2020, , .		5
30	A Novel Real-Time Deep Learning Approach for Indoor Localization Based on RF Environment Identification. , 2020, 4, 1-4.		15
31	MobileDA: Toward Edge-Domain Adaptation. IEEE Internet of Things Journal, 2020, 7, 6909-6918.	5.5	38
32	Using Reinforcement Learning to Minimize the Probability of Delay Occurrence in Transportation. IEEE Transactions on Vehicular Technology, 2020, 69, 2424-2436.	3.9	44
33	WiFi-Based Indoor Robot Positioning Using Deep Fuzzy Forests. IEEE Internet of Things Journal, 2020, 7, 10773-10781.	5.5	52
34	Deep Learning for Building Occupancy Estimation Using Environmental Sensors. Studies in Computational Intelligence, 2020, , 335-357.	0.7	9
35	Deep learning with long short-term memory networks for classification of dementia related travel patterns. , 2020, 2020, 5563-5566.		6
36	Deep learning and its applications to machine health monitoring. Mechanical Systems and Signal Processing, 2019, 115, 213-237.	4.4	1,616

#	ARTICLE	IF	CITATIONS
37	A review on swarm intelligence and evolutionary algorithms for solving flexible job shop scheduling problems. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 904-916.	8.5	322
38	A Deep Learning Approach for Sleep-Wake Detection from HRV and Accelerometer Data. , 2019, , .		3
39	Group Greedy Method for Sensor Placement. IEEE Transactions on Signal Processing, 2019, 67, 2249-2262.	3.2	41
40	A Novel Ensemble ELM for Human Activity Recognition Using Smartphone Sensors. IEEE Transactions on Industrial Informatics, 2019, 15, 2691-2699.	7.2	110
41	WiFi CSI Based Passive Human Activity Recognition Using Attention Based BLSTM. IEEE Transactions on Mobile Computing, 2019, 18, 2714-2724.	3.9	230
42	A Novel Semisupervised Deep Learning Method for Human Activity Recognition. IEEE Transactions on Industrial Informatics, 2019, 15, 3821-3830.	7.2	64
43	Wavelength detection of model-sharing fiber Bragg grating sensor networks using long short-term memory neural network. Optics Express, 2019, 27, 20583.	1.7	25
44	Building occupancy estimation and detection: A review. Energy and Buildings, 2018, 169, 260-270.	3.1	186
45	Distilling the Knowledge From Handcrafted Features for Human Activity Recognition. IEEE Transactions on Industrial Informatics, 2018, 14, 4334-4342.	7.2	96
46	Building Occupancy Detection from Carbon-dioxide and Motion Sensors. , 2018, , .		10
47	Building occupancy modeling using generative adversarial network. Energy and Buildings, 2018, 174, 372-379.	3.1	37
48	Occupancy estimation with environmental sensing via non-iterative LRF feature learning in time and frequency domains. Energy and Buildings, 2017, 141, 125-133.	3.1	22
49	Environmental Sensors-Based Occupancy Estimation in Buildings via IHMM-MLR. IEEE Transactions on Industrial Informatics, 2017, 13, 2184-2193.	7.2	32
50	Building Occupancy Estimation with Environmental Sensors via CDBLSTM. IEEE Transactions on Industrial Electronics, 2017, 64, 9549-9559.	5.2	47
51	Accurate indoor localization and tracking using mobile phone inertial sensors, WiFi and iBeacon. , 2017, , .		93
52	Robust Human Activity Recognition Using Smartphone Sensors via CT-PCA and Online SVM. IEEE Transactions on Industrial Informatics, 2017, 13, 3070-3080.	7.2	189
53	Comparing occupancy models and data mining approaches for regular occupancy prediction in commercial buildings. Journal of Building Performance Simulation, 2017, 10, 545-553.	1.0	22
54	A fusion framework for occupancy estimation in office buildings based on environmental sensor data. Energy and Buildings, 2016, 133, 790-798.	3.1	70

#	ARTICLE	IF	CITATIONS
55	Smartphone Inertial Sensor-Based Indoor Localization and Tracking With iBeacon Corrections. IEEE Transactions on Industrial Informatics, 2016, 12, 1540-1549.	7.2	177
56	Modeling regular occupancy in commercial buildings using stochastic models. Energy and Buildings, 2015, 103, 216-223.	3.1	69
57	Smartphone-based Human Activity Recognition in buildings using Locality-constrained Linear Coding. , 2015, , .		10
58	Fusion of WiFi, Smartphone Sensors and Landmarks Using the Kalman Filter for Indoor Localization. Sensors, 2015, 15, 715-732.	2.1	321
59	Using unlabeled acoustic data with locality-constrained linear coding for energy-related activity recognition in buildings. , 2015, , .		3
60	Indoor localization using smartphone sensors and iBeacons. , 2015, , .		40
61	Modeling building occupancy using a novel inhomogeneous Markov chain approach. , 2014, , .		5
62	Design of wavelength dependent optical attenuators. , 0, , .		0