Lei Zhang

List of Publications by Year
in descending order

36 papers	1,054 citations	361413 20 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	546 citing authors

#	Article	IF	Citations
1	Attention-Based Convolutional Neural Network for Weakly Labeled Human Activitiesâ€™ Recognition With Wearable Sensors. IEEE Sensors Journal, 2019, 19, 7598-7604.	4.7	125
2	The Layer-Wise Training Convolutional Neural Networks Using Local Loss for Sensor-Based Human Activity Recognition. IEEE Sensors Journal, 2020, 20, 7265-7274.	4.7	98
3	Layer-Wise Training Convolutional Neural Networks With Smaller Filters for Human Activity Recognition Using Wearable Sensors. IEEE Sensors Journal, 2021, 21, 581-592.	4.7	81
4	DanHAR: Dual Attention Network for multimodal human activity recognition using wearable sensors. Applied Soft Computing Journal, 2021, 111, 107728.	7.2	78
5	Effect of colored noise on logical stochastic resonance in bistable dynamics. Physical Review E, 2010, 82, 051106.	2.1	56
6	Shallow Convolutional Neural Networks for Human Activity Recognition Using Wearable Sensors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	45
7	Human activity recognition using wearable sensors by heterogeneous convolutional neural networks. Expert Systems With Applications, 2022, 198, 116764.	7.6	45
8	Triple Cross-Domain Attention on Human Activity Recognition Using Wearable Sensors. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 1167-1176.	4.9	44
9	Deep Neural Networks for Sensor-Based Human Activity Recognition Using Selective Kernel Convolution. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	43
10	Initial value-related dynamical analysis of the memristor-based system with reduced dimensions and its chaotic synchronization via adaptive sliding mode control method. Chinese Journal of Physics, 2019, 58, 117-131.	3.9	39
11	Real-Time Human Activity Recognition Using Conditionally Parametrized Convolutions on Mobile and Wearable Devices. IEEE Sensors Journal, 2022, 22, 5889-5901.	4.7	39
12	Effect of the correlation between internal noise and external noise on logical stochastic resonance in bistable systems. Physical Review E, 2017, 96, 052203.	2.1	32
13	Adaptive logical stochastic resonance in time-delayed synthetic genetic networks. Chaos, 2018, 28, 043117.	2.5	30
14	Using Diffusion Geometric Coordinates for Hyperspectral Imagery Representation. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 767-771.	3.1	28
15	Sequential Weakly Labeled Multiactivity Localization and Recognition on Wearable Sensors Using Recurrent Attention Networks. IEEE Transactions on Human-Machine Systems, 2021, 51, 355-364.	3.5	28
16	Array-enhanced logical stochastic resonance subject to colored noise. Chinese Journal of Physics, 2017, 55, 252-259.	3.9	27
17	A jamming tolerant BeiDou combined B1/B2 vector tracking algorithm for ultra-tightly coupled GNSS/INS systems. Aerospace Science and Technology, 2017, 70, 265-276.	4.8	25
18	Realizing reliable logical stochastic resonance under colored noise by adding periodic force. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 958-968.	2.6	24

#	Article	IF	Citations
19	The Convolutional Neural Networks Training With Channel-Selectivity for Human Activity Recognition Based on Sensors. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3834-3843.	6.3	23
20	Switching dynamics of a non-autonomous FitzHugh-Nagumo circuit with piecewise-linear flux-controlled memristor. Chaos, Solitons and Fractals, 2021, 152, 111369.	5.1	21
21	Mashup-Oriented Web API Recommendation via Multi-Model Fusion and Multi-Task Learning. IEEE Transactions on Services Computing, 2022, 15, 3330-3343.	4.6	19
22	Data driven nonlinear dynamical systems identification using multi-step CLDNN. AIP Advances, 2019, 9, 085311.	1.3	15
23	Deformable Convolutional Networks for Multimodal Human Activity Recognition Using Wearable Sensors. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	14
24	A lightweight neural network framework using linear grouped convolution for human activity recognition on mobile devices. Journal of Supercomputing, 2022, 78, 6696-6716.	3.6	13
25	Block-Wise Training Residual Networks on Multi-Channel Time Series for Human Activity Recognition. IEEE Sensors Journal, 2021, 21, 18063-18074.	4.7	11
26	Deep Convolutional Networks With Tunable Speedâ€“Accuracy Tradeoff for Human Activity Recognition Using Wearables. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	11
27	Stochastic resonance of a subdiffusive bistable system driven by LÃ©vy noise based on the subordination process. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 475003.	2.1	9
28	Realizing reliable logic and memory function with noise-assisted Schmitt trigger circuits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 617-621.	2.1	9
29	Heterogeneous dual memristive circuit: Multistability, symmetry, and FPGA implementation*. Chinese Physics B, 2021, 30, 120502.	1.4	5
30	STOCHASTIC RESONANCE IN SATURATION NONLINEARITIES BASED ON SIGNAL DETECTION. Fluctuation and Noise Letters, 2008, 08, L229-L235.	1.5	4
31	Adaptive stochastic gradient descent on the Grassmannian for robust lowâ€rank subspace recovery. IET Signal Processing, 2016, 10, 1000-1008.	1.5	4
32	The coexistence of chaotic synchronization with three different nonautonomous systems under constraint conditions. European Physical Journal: Special Topics, 2019, 228, 1493-1514.	2.6	4
33	Understanding and Improving Channel Attention for Human Activity Recognition by Temporal-Aware and Modality-Aware Embedding. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	4
34	Data driven governing equations approximations using attention based multistep neural networks. AIP Advances, 2020, 10, .	1.3	1
35	Adversarial Hard Attention Adaptation. Information (Switzerland), 2020, 11, 224.	2.9	0
36	Conditionally Learn to Pay Attention for Sequential Visual Task. IEEE Access, 2020, 8, 56695-56710.	4.2	0