Julien LeKernec

List of Publications by Year
in descending order

58 papers	1,262 citations	516215 16 h-index	454577 30 g-index
62 all docs	62 docs citations	62 times ranked	836 citing authors

#	Article	IF	Citations
1	Bi-LSTM Network for Multimodal Continuous Human Activity Recognition and Fall Detection. IEEE Sensors Journal, 2020, 20, 1191-1201.	2.4	149
2	Continuous Human Activity Classification From FMCW Radar With Bi-LSTM Networks. IEEE Sensors Journal, 2020, 20, 13607-13619.	2.4	129
3	Radar Signal Processing for Sensing in Assisted Living: The Challenges Associated With Real-Time Implementation of Emerging Algorithms. IEEE Signal Processing Magazine, 2019, 36, 29-41.	4.6	111
4	Continuous Human Motion Recognition With a Dynamic Range-Doppler Trajectory Method Based on FMCW Radar. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6821-6831.	2.7	110
5	Radar for Health Care: Recognizing Human Activities and Monitoring Vital Signs. IEEE Potentials, 2019, 38, 16-23.	0.2	66
6	Human Activity Classification With Radar: Optimization and Noise Robustness With Iterative Convolutional Neural Networks Followed With Random Forests. IEEE Sensors Journal, 2018, 18, 9669-9681.	2.4	59
7	Radar sensing for healthcare. Electronics Letters, 2019, 55, 1022-1024.	0.5	57
8	Multisensor data fusion for human activities classification and fall detection. , 2017, , .		49
9	A Multisensory Approach for Remote Health Monitoring of Older People. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 102-108.	2.3	49
10	Sequential Human Gait Classification With Distributed Radar Sensor Fusion. IEEE Sensors Journal, 2021, 21, 7590-7603.	2.4	46
11	Magnetic and Radar Sensing for Multimodal Remote Health Monitoring. IEEE Sensors Journal, 2019, 19, 8979-8989.	2.4	32
12	A review of ground€based radar as a noncontact sensor for structural health monitoring of in€field wind turbines blades. Wind Energy, 2018, 21, 1435-1449.	1.9	25
13	Animal Lameness Detection With Radar Sensing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1189-1193.	1.4	24
14	Machine learning in vehicular networking: An overview. Digital Communications and Networks, 2022, 8, 18-24.	2.7	22
15	Human activity classification with radar signal processing and machine learning. , 2020, , .		20
16	Federated Machine Learning in Vehicular Networks: A summary of Recent Applications. , 2020, , .		20
17	A Secure Occupational Therapy Framework for Monitoring Cancer Patients€™ Quality of Life. Sensors, 2019, 19, 5258.	2.1	19
18	Hierarchical Radar Data Analysis for Activity and Personnel Recognition. Remote Sensing, 2020, 12, 2237.	1.8	19

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19	Performance Analysis of Classification Algorithms for Activity Recognition Using Micro-Doppler Feature. , 2017, , .		18
20	Hierarchical Sensor Fusion for Micro-Gesture Recognition With Pressure Sensor Array and Radar. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 225-232.	2.3	16
21	Activities Recognition and Fall Detection in Continuous Data Streams Using Radar Sensor. , 2019, , .		15
22	Activity Classification Using Raw Range and I & Q Radar Data with Long Short Term Memory Layers. , 2018, , .		12
23	Data portability for activities of daily living and fall detection in different environments using radar micro-doppler. Neural Computing and Applications, 2022, 34, 7933-7953.	3.2	12
24	Cross-Frequency Classification of Indoor Activities with DNN Transfer Learning. , 2019, , .		11
25	Performances of multitones for ultra-wideband software-defined radar. IEEE Access, 2017, , 1-1.	2.6	10
26	Radar for assisted living in the context of Internet of Things for Health and beyond. , 2018, , .		10
27	Simulation framework for activity recognition and benchmarking in different radar geometries. IET Radar, Sonar and Navigation, 2021, 15, 390-401.	0.9	10
28	From Kinect skeleton data to hand gesture recognition with radar. Journal of Engineering, 2019, 2019, 6914-6919.	0.6	9
29	Use of Symmetrical Peak Extraction in Drone Micro-Doppler Classification for Staring Radar. , 2020, , .		9
30	Evaluation of lameness detection using radar sensing in ruminants. Veterinary Record, 2019, 185, 572-572.	0.2	9
31	Human Activity Recognition Based on Acceleration Data From Smartphones Using HMMs. IEEE Access, 2021, 9, 139336-139351.	2.6	9
32	Radar sensing for human healthcare: challenges and results. , 2021, , .		9
33	Intelligent Handover Algorithm for Vehicle-to-Network Communications With Double-Deep Q-Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 7848-7862.	3.9	9
34	Distributed Radar Information Fusion for Gait Recognition and Fall Detection. , 2020, , .		8
35	Practical Investigation of a MIMO radar system capabilities forÂsmall drones detection. IET Radar, Sonar and Navigation, 2021, 15, 760-774.	0.9	8
36	Human Activities Classification in a Complex Space Using Raw Radar Data. , 2019, , .		7

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37	Hierarchical Classification on Multimodal Sensing for Human Activity Recognition and Fall Detection. , 2018, , .		6
38	Assessment of Sochacki lenses for autonomous maritime patrol FLAR. , 2014, , .		5
39	Monitoring Body Motions Related To Huntington Disease by Exploiting the 5G Paradigm. , 2019, , .		5
40	Elderly care: activities of daily living classification with an S band radar. Journal of Engineering, 2019, 2019, 7601-7606.	0.6	5
41	FMCW radar and inertial sensing synergy for assisted living. Journal of Engineering, 2019, 2019, 6784-6789.	0.6	5
42	Activity recognition with cooperative radar systems at C and K band. Journal of Engineering, 2019, 2019, 7100-7104.	0.6	5
43	Empirical analysis of chirp and multitones performances with a UWB software defined radar: Range, distance and Doppler. , 2014, , .		4
44	Elderly Care: Using Deep Learning for Multi-Domain Activity Classification. , 2020, , .		4
45	A constrained hybrid Cramér-Rao bound for parameter estimation. , 2015, , .		3
46	Multitones' Performance for Ultra Wideband Software Defined Radar. , 0, , .		3
47	Radar-based evaluation of lameness detection in ruminants: preliminary results. , 2019, , .		3
48	A self-sufficient digitally controlled ring oscillator compensated for supply voltage variation. , 2011, , .		2
49	An LSTM Approach to Short-range personnel recognition using Radar Signals. , 2021, , .		2
50	Elderly Care - Human Activity Recognition Using Radar with an Open Dataset and Hybrid Maps. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 39-51.	0.2	2
51	The use of multiple-choice questions in 3rd-year electronic engineering assessment: A case study. , 2018, , .		1
52	Deflection characterisation of rotary systems using ground-based radar. Journal of Engineering, 2019, 2019, 7215-7219.	0.6	1
53	Clustering Algorithm in Vehicular Ad-hoc Networks: A Brief Summary. , 2019, , .		1
54	Optimal Design and Operational Monitoring of Wind Turbine Blades. , 0, , .		1

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55	Inter-range-cell interference free compression algorithm: Performance in operational conditions. , 2016, , .		0
56	Searching the Adversarial Example in the Decision Boundary. , 2020, , .		0
57	Activity Recognition System Optimisation Using Triaxial Accelerometers. Smart Innovation, Systems and Technologies, 2020, , 119-128.	0.5	0
58	Multimodal sensing for assisted living using radar. , 2020, , 181-215.		0