Julien LeKernec

List of Publications by Year
in descending order

58 papers	1,262 citations	516710 16 h-index	454955 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.	4.7	149
2	Continuous Human Activity Classification From FMCW Radar With Bi-LSTM Networks. IEEE Sensors Journal, 2020, 20, 13607-13619.	4.7	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.	5.6	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.	6.3	110
5	Radar for Health Care: Recognizing Human Activities and Monitoring Vital Signs. IEEE Potentials, 2019, 38, 16-23.	0.3	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.	4.7	59
7	Radar sensing for healthcare. Electronics Letters, 2019, 55, 1022-1024.	1.0	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.	3.4	49
10	Sequential Human Gait Classification With Distributed Radar Sensor Fusion. IEEE Sensors Journal, 2021, 21, 7590-7603.	4.7	46
11	Magnetic and Radar Sensing for Multimodal Remote Health Monitoring. IEEE Sensors Journal, 2019, 19, 8979-8989.	4.7	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.	4.2	25
13	Animal Lameness Detection With Radar Sensing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1189-1193.	3.1	24
14	Machine learning in vehicular networking: An overview. Digital Communications and Networks, 2022, 8, 18-24.	5.0	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.	3.8	19
18	Hierarchical Radar Data Analysis for Activity and Personnel Recognition. Remote Sensing, 2020, 12, 2237.	4.0	19

#	Article	IF	Citations
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.	3.4	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.	5.6	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.	4.2	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.	1.8	10
28	From Kinect skeleton data to hand gesture recognition with radar. Journal of Engineering, 2019, 2019, 6914-6919.	1.1	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.	0.3	9
31	Human Activity Recognition Based on Acceleration Data From Smartphones Using HMMs. IEEE Access, 2021, 9, 139336-139351.	4.2	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.	6.3	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.	1.8	8
36	Human Activities Classification in a Complex Space Using Raw Radar Data. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
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.	1.1	5
41	FMCW radar and inertial sensing synergy for assisted living. Journal of Engineering, 2019, 2019, 6784-6789.	1.1	5
42	Activity recognition with cooperative radar systems at C and K band. Journal of Engineering, 2019, 2019, 7100-7104.	1.1	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	Multitonesâ€™ 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.	0.3	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 groundâ€based radar. Journal of Engineering, 2019, 2019, 7215-7219.	1.1	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

#	Article	IF	Citations
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.	0.6	0
58	Multimodal sensing for assisted living using radar. , 2020, , 181-215.		0