

# Julien LeKernec

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8198106/publications.pdf>

Version: 2024-02-01

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	Machine learning in vehicular networking: An overview. Digital Communications and Networks, 2022, 8, 18-24.	5.0	22
2	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
3	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
4	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
5	Simulation framework for activity recognition and benchmarking in different radar geometries. IET Radar, Sonar and Navigation, 2021, 15, 390-401.	1.8	10
6	Sequential Human Gait Classification With Distributed Radar Sensor Fusion. IEEE Sensors Journal, 2021, 21, 7590-7603.	4.7	46
7	Practical Investigation of a MIMO radar system capabilities for small drones detection. IET Radar, Sonar and Navigation, 2021, 15, 760-774.	1.8	8
8	An LSTM Approach to Short-range personnel recognition using Radar Signals. , 2021, , .		2
9	Human Activity Recognition Based on Acceleration Data From Smartphones Using HMMs. IEEE Access, 2021, 9, 139336-139351.	4.2	9
10	Radar sensing for human healthcare: challenges and results. , 2021, , .		9
11	Bi-LSTM Network for Multimodal Continuous Human Activity Recognition and Fall Detection. IEEE Sensors Journal, 2020, 20, 1191-1201.	4.7	149
12	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
13	Hierarchical Radar Data Analysis for Activity and Personnel Recognition. Remote Sensing, 2020, 12, 2237.	4.0	19
14	Elderly Care: Using Deep Learning for Multi-Domain Activity Classification. , 2020, , .		4
15	Human activity classification with radar signal processing and machine learning. , 2020, , .		20
16	Searching the Adversarial Example in the Decision Boundary. , 2020, , .		0
17	Distributed Radar Information Fusion for Gait Recognition and Fall Detection. , 2020, , .		8
18	Federated Machine Learning in Vehicular Networks: A summary of Recent Applications. , 2020, , .		20

#	ARTICLE	IF	CITATIONS
19	Continuous Human Activity Classification From FMCW Radar With Bi-LSTM Networks. IEEE Sensors Journal, 2020, 20, 13607-13619.	4.7	129
20	Use of Symmetrical Peak Extraction in Drone Micro-Doppler Classification for Staring Radar. , 2020, , .		9
21	Activity Recognition System Optimisation Using Triaxial Accelerometers. Smart Innovation, Systems and Technologies, 2020, , 119-128.	0.6	0
22	Multimodal sensing for assisted living using radar. , 2020, , 181-215.		0
23	Radar-based evaluation of lameness detection in ruminants: preliminary results. , 2019, , .		3
24	Activities Recognition and Fall Detection in Continuous Data Streams Using Radar Sensor. , 2019, , .		15
25	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
26	Radar for Health Care: Recognizing Human Activities and Monitoring Vital Signs. IEEE Potentials, 2019, 38, 16-23.	0.3	66
27	Cross-Frequency Classification of Indoor Activities with DNN Transfer Learning. , 2019, , .		11
28	Monitoring Body Motions Related To Huntington Disease by Exploiting the 5G Paradigm. , 2019, , .		5
29	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
30	Elderly care: activities of daily living classification with an S band radar. Journal of Engineering, 2019, 2019, 7601-7606.	1.1	5
31	From Kinect skeleton data to hand gesture recognition with radar. Journal of Engineering, 2019, 2019, 6914-6919.	1.1	9
32	Radar sensing for healthcare. Electronics Letters, 2019, 55, 1022-1024.	1.0	57
33	Deflection characterisation of rotary systems using ground-based radar. Journal of Engineering, 2019, 2019, 7215-7219.	1.1	1
34	Human Activities Classification in a Complex Space Using Raw Radar Data. , 2019, , .		7
35	FMCW radar and inertial sensing synergy for assisted living. Journal of Engineering, 2019, 2019, 6784-6789.	1.1	5
36	A Secure Occupational Therapy Framework for Monitoring Cancer Patientsâ€™ Quality of Life. Sensors, 2019, 19, 5258.	3.8	19

#	ARTICLE	IF	CITATIONS
37	Clustering Algorithm in Vehicular Ad-hoc Networks: A Brief Summary. , 2019, , .		1
38	Magnetic and Radar Sensing for Multimodal Remote Health Monitoring. IEEE Sensors Journal, 2019, 19, 8979-8989.	4.7	32
39	Activity recognition with cooperative radar systems at C and K band. Journal of Engineering, 2019, 2019, 7100-7104.	1.1	5
40	Evaluation of lameness detection using radar sensing in ruminants. Veterinary Record, 2019, 185, 572-572.	0.3	9
41	The use of multiple-choice questions in 3rd-year electronic engineering assessment: A case study. , 2018, , .		1
42	Radar for assisted living in the context of Internet of Things for Health and beyond. , 2018, , .		10
43	Activity Classification Using Raw Range and I & Q Radar Data with Long Short Term Memory Layers. , 2018, , .		12
44	Hierarchical Classification on Multimodal Sensing for Human Activity Recognition and Fall Detection. , 2018, , .		6
45	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
46	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
47	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
48	Animal Lameness Detection With Radar Sensing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1189-1193.	3.1	24
49	Performances of multitones for ultra-wideband software-defined radar. IEEE Access, 2017, , 1-1.	4.2	10
50	Multisensor data fusion for human activities classification and fall detection. , 2017, , .		49
51	Performance Analysis of Classification Algorithms for Activity Recognition Using Micro-Doppler Feature. , 2017, , .		18
52	Inter-range-cell interference free compression algorithm: Performance in operational conditions. , 2016, , .		0
53	A constrained hybrid Cramér-Rao bound for parameter estimation. , 2015, , .		3
54	Empirical analysis of chirp and multitones performances with a UWB software defined radar: Range, distance and Doppler. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	Assessment of Sochacki lenses for autonomous maritime patrol FLAR. , 2014, , .		5
56	A self-sufficient digitally controlled ring oscillator compensated for supply voltage variation. , 2011, , .		2
57	Multitonesâ€™ Performance for Ultra Wideband Software Defined Radar. , 0, , .		3
58	Optimal Design and Operational Monitoring of Wind Turbine Blades. , 0, , .		1