Youngwook Kim

List of Publications by Year
in descending order

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66 papers	3,068 citations	279701 23 h-index	223716 46 g-index
66 all docs	66 docs citations	66 times ranked	2085 citing authors

#	Article	IF	Citations
1	Human Activity Classification Based on Micro-Doppler Signatures Using a Support Vector Machine. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1328-1337.	2.7	677
2	Human Detection and Activity Classification Based on Micro-Doppler Signatures Using Deep Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 8-12.	1.4	461
3	Hand Gesture Recognition Using Micro-Doppler Signatures With Convolutional Neural Network. IEEE Access, 2016, 4, 7125-7130.	2.6	301
4	Investigation of Adaptive Matching Methods for Near-Field Wireless Power Transfer. IEEE Transactions on Antennas and Propagation, 2011, 59, 1769-1773.	3.1	180
5	Human Detection Using Doppler Radar Based on Physical Characteristics of Targets. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 289-293.	1.4	143
6	Simulation and Analysis of Human Micro-Dopplers in Through-Wall Environments. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2015-2023.	2.7	121
7	Application of Linear Predictive Coding for Human Activity Classification Based on Micro-Doppler Signatures. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1831-1834.	1.4	98
8	Micromachined Fabry-Perot cavity pressure transducer. IEEE Photonics Technology Letters, 1995, 7, 1471-1473.	1.3	92
9	Micro-Doppler Based Classification of Human Aquatic Activities via Transfer Learning of Convolutional Neural Networks. Sensors, 2016, 16, 1990.	2.1	91
10	Application of Artificial Neural Networks to Broadband Antenna Design Based on a Parametric Frequency Model. IEEE Transactions on Antennas and Propagation, 2007, 55, 669-674.	3.1	66
11	Application of ultra-wide band radar for classification of human activities. IET Radar, Sonar and Navigation, 2012, 6, 172.	0.9	64
12	Generative Adversarial Networks for Classification of Micro-Doppler Signatures of Human Activity. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 396-400.	1.4	55
13	Investigation of coupled mode behaviour of electrically small meander antennas. Electronics Letters, 2007, 43, 1250.	0.5	51
14	Human Activity Classification With Transmission and Reflection Coefficients of On-Body Antennas Through Deep Convolutional Neural Networks. IEEE Transactions on Antennas and Propagation, 2017, 65, 2764-2768.	3.1	46
15	Human Activity Classification Based on Point Clouds Measured by Millimeter Wave MIMO Radar With Deep Recurrent Neural Networks. IEEE Sensors Journal, 2021, 21, 13522-13529.	2.4	45
16	Hand Gesture Recognition Using Input Impedance Variation of Two Antennas with Transfer Learning. IEEE Sensors Journal, 2018, 18, 4129-4135.	2.4	43
17	Detection of Eye Blinking Using Doppler Sensor With Principal Component Analysis. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 123-126.	2.4	37
18	Application of Doppler radar for the recognition of hand gestures using optimized deep convolutional neural networks. , 2017, , .		34

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19	Through-Wall Human Tracking With Multiple Doppler Sensors Using an Artificial Neural Network. IEEE Transactions on Antennas and Propagation, 2009, 57, 2116-2122.	3.1	29
20	Orthonormal pulses for high data rate communications in indoor UWB systems. IEEE Communications Letters, 2005, 9, 405-407.	2.5	27
21	Human activity classification based on micro-Doppler signatures using an artificial neural network. , 2008, , .		26
22	Human Activity Classification Based on Dynamic Time Warping of an On-Body Creeping Wave Signal. IEEE Transactions on Antennas and Propagation, 2016, 64, 4901-4905.	3.1	26
23	Through-Wall Remote Human Voice Recognition Using Doppler Radar With Transfer Learning. IEEE Sensors Journal, 2019, 19, 4571-4576.	2.4	25
24	Broadband on-glass antenna with mesh-grid structure for automobiles. Electronics Letters, 2005, 41, 1148.	0.5	24
25	Human Detection Based on Time-Varying Signature on Range-Doppler Diagram Using Deep Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 426-430.	1.4	24
26	Classification of Human Activities Using Variation in Impedance of Single On-Body Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 541-544.	2.4	19
27	Application of Micro-Doppler Signatures for Estimation of Total Energy Expenditure in Humans for Walking/Running Activities. IEEE Access, 2016, 4, 1560-1569.	2.6	18
28	Monitoring Human Head and Neck-Based Motions From Around-Neck Creeping Wave Propagations. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1199-1203.	2.4	17
29	Design of a Reduced-Size Crossed-Dipole Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 689-697.	3.1	17
30	Heart Rate Tracking Using a Doppler Radar With the Reassigned Joint Time-Frequency Transform. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1096-1099.	2.4	16
31	Synthesis of Micro-Doppler Signatures of Human Activities From Different Aspect Angles Using Generative Adversarial Networks. IEEE Access, 2021, 9, 46422-46429.	2.6	15
32	Equivalent circuit modeling of broadband antennas using a rational function approximation. Microwave and Optical Technology Letters, 2006, 48, 950-953.	0.9	14
33	DIRECTION OF ARRIVAL ESTIMATION OF HUMANS WITH A SMALL SENSOR ARRAY USING AN ARTIFICIAL NEURAL NETWORK. Progress in Electromagnetics Research B, 2011, 27, 127-149.	0.7	14
34	Generative Adversarial Networks to Augment Micro-Doppler Signatures for the Classification of Human Activity. , 2019, , .		14
35	Classification of human activities on UWB radar using a support vector machine. , 2010, , .		12
36	Detection of Moving Target and Localization of Clutter Using Doppler Radar on Mobile Platform. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1156-1160.	1.4	12

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37	Development of headset-type computer mouse using gyro sensors for the handicapped. Electronics Letters, 2002, 38, 1313.	0.5	11
38	Classification of Finger Movements Based on Reflection Coefficient Variations of a Body-Worn Electrically Small Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	2.4	11
39	Augmentation of Doppler Radar Data Using Generative Adversarial Network for Human Motion Analysis. Healthcare Informatics Research, 2019, 25, 344.	1.0	11
40	Design of ultra-broadband on-glass antenna with a 250â€…[ohm sign] system impedance for automobiles. Electronics Letters, 2004, 40, 1566.	0.5	9
41	On the Optimal Sampling Strategy for Model-Based Parameter Estimation Using Rational Functions. IEEE Transactions on Antennas and Propagation, 2006, 54, 762-765.	3.1	6
42	Realisable rational function approximations for the equivalent circuit modelling of broadband antennas. IET Microwaves, Antennas and Propagation, 2007, 1, 1046.	0.7	6
43	Continual Learning of Micro-Doppler Signature-Based Human Activity Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
44	Identification of FMCW radar in mutual interference environments using frequency ramp modulation. , 2016, , .		5
45	Extraction of microâ€doppler characteristics of drones using highâ€resolution timeâ€frequency transforms. Microwave and Optical Technology Letters, 2018, 60, 2949-2954.	0.9	5
46	2-D Direction-of-Arrival Estimation System Using Circular Array With Mutually Coupled Reference Signal. IEEE Sensors Journal, 2018, 18, 9763-9769.	2.4	5
47	2-D DOA Estimation of Coherent Wideband Signals with Auxiliary-Vector Basis. , 2018, , .		5
48	Human Motion Detection Using Planar Array FMCW Radar Through 3D Point Clouds. , 2020, , .		5
49	Classification of human activity on water through micro-Dopplers using deep convolutional neural networks. Proceedings of SPIE, 2016, , .	0.8	3
50	Construction of high-resolution digital elevation model using SAR technique for terrain referred navigation. Microwave and Optical Technology Letters, 2017, 59, 2401-2405.	0.9	3
51	Tracking Bedridden Patient Positions Using Micro-Doppler Signatures. , 2021, 5, 1-4.		3
52	Equivalent Circuit Modeling of Broadband Antennas using Vector Fitting and Particle Swarm Optimization. , 2006, , .		2
53	Speaker identification made easy with pruned reassigned spectrograms. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
54	A compact monopole antenna for bluetooth and UWB applications. , 2017, , .		2

#	Article	IF	Citations
55	Monitoring Diaper Condition Using the Impedance Variation of a Dipole Antenna. , 2018, , .		2
56	Localization of Airborne Platform Using Digital Elevation Model With Adaptive Weighting Inspired by Information Theory. IEEE Sensors Journal, 2018, 18, 7585-7592.	2.4	2
57	Application of Conditional Generative Adversarial Networks for Generation of Micro-Doppler Signatures of Different Aspect Angles. , 2021, , .		2
58	Application of the Cauchy Method to Genetic Algorithms for Broadband Antenna Design. , 0, , .		1
59	Tracking a moving target with multiple doppler sensors using an artificial neural network. , 2007, , .		1
60	Application of digital elevation model for estimation of airborne platform with data fusion. , 2016, , .		1
61	Classification of micro-Doppler signatures of human aquatic activity through simulation and measurement using transferred learning. Proceedings of SPIE, 2017, , .	0.8	1
62	Design Analysis of Folded Reflectarray Element for High Aperture Efficiency. , 2018, , .		1
63	Estimation of Diaper Condition Based on Antenna Impedance Variation Through Rational Function Approximation. IEEE Access, 2020, 8, 2441-2446.	2.6	1
64	Compact Circularly Polarized E-Shaped Crossed-Dipole Antenna. , 2020, , .		1
65	Human Detection with Range-Doppler Signatures Using 3D Convolutional Neural Networks. , 2020, , .		1
66	Corrections to â€œHand Gesture Recognition Using Input Impedance Variation of Two Antennas With Transfer Learningâ€• IEEE Sensors Journal, 2018, 18, 8192-8192.	2.4	0