Lesya N Anishchenko

List of Publications by Year
in descending order

51 papers	305 citations	1478505 6 h-index	1199594 12 g-index
51 all docs	51 docs citations	51 times ranked	233 citing authors

#	Article	IF	Citations
1	Estimation of the Optimal Radar Positioning for the Contactless Fall Detection. , 2021, , .		1
2	Bi-directional Long Short-Term Memory Networks for Fall Detection using Bioradars. , 2020, , .		2
3	Improved Non-Contact Mental Stress Detection via Bioradar. , 2020, , .		4
4	Benefits of bioradar sleep monitoring in self-isolation. Arterial Hypertension (Russian Federation), 2020, 26, 230-233.	0.4	1
5	Sleep Breathing Disorders Detection with Bioradar Using a Long Short-Term Memory Network. , 2020, , .		2
6	Remote Limb Movement Analysis During Sleep by Means of Bioradar. , 2020, , .		1
7	Sensing of Human Breathing and Heart Beating at Different Orientation Angles by CW Doppler Radar. , 2019, , .		2
8	Non-contact Sleep Disorders Detection Framework for Smart Home. , 2019, , .		1
9	Respiratory Rate Determination during Sleep by CW Doppler Radar. , 2019, , .		4
10	Fall Detection with Bioradar Using Wavelet Analysis and Deep Learning. , 2019, , .		1
11	Fall Detection Using Multiple Bioradars and Convolutional Neural Networks. Sensors, 2019, 19, 5569.	3.8	27
12	Mental stress detection using bioradar respiratory signals. Biomedical Signal Processing and Control, 2018, 43, 244-249.	5.7	42
13	Two-channel Bioradar for Stress Monitoring. , 2018, , .		2
14	Remote Mental Workload Estimation by a Bioradar. , 2018, , .		2
15	Challenges and Potential Solutions of Psychophysiological State Monitoring with Bioradar Technology. Diagnostics, 2018, 8, 73.	2.6	10
16	Bioradiolocation-based non contact fall detection method development. , 2018, , .		1
17	Determination of the sleep structure via radar monitoring of respiratory movements and motor activity. Journal of Communications Technology and Electronics, 2017, 62, 886-893.	0.5	3
18	Automated long-term contactless temperature monitoring in animals via a thermographic camera. , 2017, 2017, 1262-1265.		1

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19	Estimation of a priori probabilities of sleep stages: A cycle-based approach. , 2017, 2017, 3745-3748.		7
20	Antenna design by using specialist tool for the 3D EM simulation of high frequency components. , 2017, , .		0
21	Importance of the bioradar signal preprocessing in fall detection. , 2017, , .		1
22	Discriminant analysis in bioradar-based fall events classification. , 2017, , .		4
23	Blind separation of several biological objects respiration patterns by means of a step-frequency continuous-wave bioradar. , 2017, , .		3
24	Detection of movement activity and breathing cycles on bioradiolocation signals. , 2017, , .		2
25	A feasibility study for circadian rhythm monitoring via a continuous-wave radar. , 2017, , .		1
26	A study of the dielectric properties of biological tissues: Ex-vivo vs preserved samples. , 2017, , .		1
27	Bioradiolocation-based sleep stage classification. , 2016, 2016, 2839-2842.		18
28	Sleep architecture measurement based on cardiorespiratory parameters. , 2016, 2016, 3478-3481.		15
29	A 77GHz bioradar antenna module design using microstrip arrays. , 2016, , .		7
30	Sleep stage classification based on bioradiolocation signals. , 2015, 2015, 362-5.		12
31	Evaluation of rodents' respiratory activity using a bioradar. IET Radar, Sonar and Navigation, 2015, 9, 1296-1302.	1.8	19
32	Millimeter-wave radar for vital signs monitoring. , 2015, , .		12
33	Numerical Simulation of 7 GHz Radar in Breast Tissue Dielectic Inhomogeneity Detection. , 2015, , .		0
34	Empirical mode decomposition algorithm for bioradar data analysis. , 2015, , .		3
35	Comparison of 4 GHz and 14 GHz SFCW radars in measuring of small laboratory animals vital signs. , 2015, , .		2
36	Sleep stage classification based on respiratory signal. , 2015, 2015, 358-61.		19

#	Article	IF	Citations
37	Simulation of holographic radar application in detection of breast tumors. Proceedings of SPIE, 2014, , .	0.8	1
38	Application of step-frequency radars in medicine. , 2014, , .		14
39	Estimation of respiratory rhythm during night sleep using a bio-radar. Proceedings of SPIE, 2014, , .	0.8	3
40	A novel approach in automatic estimation of rats' loco-motor activity. Proceedings of SPIE, 2014, , .	0.8	1
41	Bioradiolocation: Methods and Applications. Communications in Computer and Information Science, 2014, , 10-28.	0.5	2
42	Selection of Wavelet Transform and Neural Network Parameters for Classification of Breathing Patterns of Bio-radiolocation Signals. Communications in Computer and Information Science, 2014, , 175-178.	0.5	0
43	Estimation of Information Value of Diagnostic Data Obtained by Bioradiolocation Pneumography in Non-contact Screening of Sleep Apnea Syndrome. Bio-Medical Engineering, 2013, 47, 96-99.	0.5	6
44	Use of Radiolocation for Non-contact Estimation of Patterns of Respiration and Motion Activity in Sleeping Humans. Bio-Medical Engineering, 2013, 47, 7-11.	0.5	4
45	Radar for vital signs characterization: A comparison between two different frequency band systems. , 2013, , .		2
46	Comparison study of two approaches for bioradar data processing. , 2013, , .		4
47	A Novel Method for Recognition of Bioradiolocation Signal Breathing Patterns for Noncontact Screening of Sleep Apnea Syndrome. International Journal of Antennas and Propagation, 2013, 2013, 1-8.	1.2	7
48	Comparison of Bioradiolocation and Respiratory Plethysmography Signals in Time and Frequency Domains on the Base of Cross-Correlation and Spectral Analysis. International Journal of Antennas and Propagation, 2013, 2013, 1-6.	1.2	5
49	Holographic radar in breast cancer imaging. , 2012, , .		4
50	A Feasibility Study for Life Signs Monitoring via a Continuous-Wave Radar. International Journal of Antennas and Propagation, 2012, 2012, 1-5.	1.2	12
51	Bioradar for monitoring of human adaptive capabilities. , 2011, , .		7