

Victor M Lubecke

List of Publications by Year in descending order

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69
papers

2,681
citations

393982

19
h-index

610482

24
g-index

79
all docs

79
docs citations

79
times ranked

1497
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Recent Advances in Doppler Radar Sensors for Noncontact Healthcare Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2046-2060.	2.9	655
2	Arctangent Demodulation With DC Offset Compensation in Quadrature Doppler Radar Receiver Systems. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1073-1079.	2.9	466
3	Assessment of Heart Rate Variability and Respiratory Sinus Arrhythmia via Doppler Radar. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2542-2549.	2.9	147
4	Non-contact respiratory rate measurement validation for hospitalized patients. , 2009, 2009, 4812-5.		93
5	Data-Based Quadrature Imbalance Compensation for a CW Doppler Radar System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1718-1724.	2.9	89
6	Respiratory Monitoring and Clutter Rejection Using a CW Doppler Radar With Passive RF Tags. IEEE Sensors Journal, 2012, 12, 558-565.	2.4	84
7	Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. IEEE Sensors Journal, 2013, 13, 1897-1904.	2.4	56
8	Doppler Radar Techniques for Accurate Respiration Characterization and Subject Identification. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 350-359.	2.7	56
9	Wireless Sleep Apnea Detection Using Continuous Wave Quadrature Doppler Radar. IEEE Sensors Journal, 2020, 20, 538-545.	2.4	53
10	Good Night: Sleep Monitoring Using a Physiological Radar Monitoring System Integrated with a Polysomnography System. IEEE Microwave Magazine, 2015, 16, 34-41.	0.7	49
11	Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. IEEE Sensors Journal, 2013, 13, 3397-3404.	2.4	42
12	Is There Anybody in There?: Intelligent Radar Occupancy Sensors. IEEE Microwave Magazine, 2014, 15, 57-64.	0.7	42
13	Non-Contact Vital Signs Monitoring for Multiple Subjects Using a Millimeter Wave FMCW Automotive Radar. , 2020, , .		39
14	Dual-Frequency Technique for Assessment of Cardiopulmonary Effective RCS and Displacement. IEEE Sensors Journal, 2012, 12, 574-582.	2.4	37
15	E-healthcare: Remote monitoring, privacy, and security. , 2014, , .		35
16	Hand Gesture Recognition Using a Radar Echo IQ Plot and a Convolutional Neural Network. , 2018, 2, 1-4.		35
17	Center Tracking Quadrature Demodulation for a Doppler Radar Motion Detector. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	34
18	Separation of Respiratory Signatures for Multiple Subjects Using Independent Component Analysis with the JADE Algorithm. , 2018, 2018, 1234-1237.		34

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19	Radar-Based Non-Contact Continuous Identity Authentication. Remote Sensing, 2020, 12, 2279.	1.8	32
20	Sensing of Life Activities at the Human-Microwave Frontier. IEEE Journal of Microwaves, 2021, 1, 66-78.	4.9	31
21	Blind Separation of Human Heartbeats and Breathing by the use of a Doppler Radar Remote Sensing. , 2007, , .		30
22	Measurement Method for Imbalance Factors in Direct-Conversion Quadrature Radar Systems. IEEE Microwave and Wireless Components Letters, 2007, 17, 403-405.	2.0	29
23	Motion Compensation for an Unmanned Aerial Vehicle Remote Radar Life Sensor. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 329-337.	2.7	26
24	Identity Authentication System using a Support Vector Machine (SVM) on Radar Respiration Measurements. , 2019, , .		24
25	Sleep Posture Recognition With a Dual-Frequency Cardiopulmonary Doppler Radar. IEEE Access, 2021, 9, 36181-36194.	2.6	24
26	Heart Rate Variability Assessment Using Doppler Radar with Linear Demodulation. , 2008, , .		23
27	0.5- μm CMOS Implementation of Analog Heart-Rate Extraction With a Robust Peak Detector. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 690-698.	2.4	22
28	Blind Source Separation of Human Body Motion using Direct Conversion Doppler Radar. , 2008, , .		22
29	Cancellation of unwanted motion in a handheld Doppler radar used for non-contact life sign monitoring. , 2008, , .		22
30	Fish Heart Rate Monitoring by Body-Contact Doppler Radar. IEEE Sensors Journal, 2013, 13, 408-414.	2.4	21
31	A Low-IF Tag-Based Motion Compensation Technique for Mobile Doppler Radar Life Signs Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3034-3041.	2.9	19
32	Radar-based hand gesture recognition using I-Q echo plot and convolutional neural network. , 2017, , .		19
33	Contactless Radar-Based Sensors: Recent Advances in Vital-Signs Monitoring of Multiple Subjects. IEEE Microwave Magazine, 2022, 23, 47-60.	0.7	19
34	Respiratory Feature Extraction for Radar-Based Continuous Identity Authentication. , 2020, , .		18
35	Identity Authentication of OSA Patients Using Microwave Doppler radar and Machine Learning Classifiers. , 2020, , .		18
36	Noncontact Doppler radar unique identification system using neural network classifier on life signs. , 2016, , .		17

#	ARTICLE	IF	CITATIONS
37	Multiple Subject Respiratory Pattern Recognition and Estimation of Direction of Arrival using Phase-Comparison Monopulse Radar. , 2019, , .		17
38	A coherent low IF receiver architecture for Doppler radar motion detector used in life signs monitoring. , 2010, , .		16
39	Microwave and wearable technologies for 5G. , 2015, , .		16
40	Signal processing techniques for vital sign monitoring using mobile short range doppler radar. , 2015, , .		16
41	Pulse pressure monitoring through non-contact cardiac motion detection using 2.45 GHz microwave Doppler radar. , 2011, 2011, 4336-9.		14
42	RF techniques for motion compensation of an Unmanned Aerial Vehicle for remote radar life sensing. , 2016, , .		12
43	Can Radar Remote Life Sensing Technology Help Combat COVID-19?. Frontiers in Communications and Networks, 2021, 2, .	1.9	11
44	Sleep Posture Recognition With a Dual-Frequency Microwave Doppler Radar and Machine Learning Classifiers. , 2022, 6, 1-4.		11
45	High dynamic range DC coupled CW Doppler radar for accurate respiration characterization and identification. , 2017, , .		10
46	Direction of Arrival Estimation of Physiological Signals of Multiple Subjects Using Phase Comparison Monopulse Radar. , 2018, , .		10
47	Wireless technologies in sleep monitoring. , 2009, , .		9
48	Tx leakage cancellation using antenna image impedance for CW radar applications. , 2016, , .		8
49	Obstructive Sleep Apnea (OSA) Events Classification by Effective Radar Cross Section (ERCS) Method Using Microwave Doppler Radar and Machine Learning Classifier. , 2020, , .		8
50	Considerations in measuring vital signs cross section with Doppler radar. , 2011, , .		7
51	Sub-μW signal power doppler radar heart rate detection. , 2006, , .		6
52	Heartbeat interval extraction using doppler radar for health monitoring. , 2009, , .		6
53	Body-worn passive planar harmonic tag design for use with Doppler radar. , 2011, , .		6
54	A Programmable Robotic Phantom to Simulate the Dynamic Respiratory Motions of Humans for Continuous Identity Authentication. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
55	Amplitude modulation issues in Doppler radar heart signal extraction. , 2011, , .		5
56	See-through-wall life sensing using mobile Doppler radar. , 2016, , .		4
57	Wearable wireless electronics. , 2015, , .		3
58	Empirical Mode Decomposition (EMD) for Platform Motion Compensation in Remote Life Sensing Radar. , 2022, , .		3
59	BreathID: Radar's New Role in Biometrics. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 16-23.	2.3	3
60	Feasibility of HRV measurement from single-channel doppler radar. , 2007, , .		2
61	Unmanned aerial vehicle platform stabilization for remote radar life sensing. , 2016, , .		2
62	A versatile through-the-wall doppler radar using BSS algorithms. , 2007, , .		1
63	Single-channel radar fusion for quadrature life-sign Doppler radar. , 2016, , .		1
64	Implementation of rigorous EM simulations for design and production of narrow band waveguide diplexer. Microwave and Optical Technology Letters, 2008, 50, 1032-1036.	0.9	0
65	System-on-Chip based physiological Doppler radar: CW and packet radar performance. , 2014, , .		0
66	Key millimeter wave technologies for 5G. , 2016, , .		0
67	Single-channel radar fusion for quadrature life-sign Doppler radar. , 2016, , .		0
68	Signal conditioning for UAV-radar in vital sign monitoring. , 2016, , .		0
69	Applications and Future Research. , 2016, , 269-284.		0