Adam Santorelli

List of Publications by Year
in descending order

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52 papers	1,108 citations	516710 16 h-index	552781 26 g-index
52 all docs	52 docs citations	52 times ranked	1013 citing authors

#	Article	IF	Citations
1	Flexible 16 Antenna Array for Microwave Breast Cancer Detection. IEEE Transactions on Biomedical Engineering, 2015, 62, 2516-2525.	4.2	217
2	A Wearable Microwave Antenna Array for Time-Domain Breast Tumor Screening. IEEE Transactions on Medical Imaging, 2016, 35, 1501-1509.	8.9	139
3	Time-Domain Multistatic Radar System for Microwave Breast Screening. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 229-232.	4.0	112
4	Factors Affecting the Acceptability of Social Robots by Older Adults Including People with Dementia or Cognitive Impairment: A Literature Review. International Journal of Social Robotics, 2018, 10, 643-668.	4.6	82
5	A Time-Domain Microwave System for Breast Cancer Detection Using a Flexible Circuit Board. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2986-2994.	4.7	43
6	Microwave breast cancer detection via cost-sensitive ensemble classifiers: Phantom and patient investigation. Biomedical Signal Processing and Control, 2017, 31, 366-376.	5.7	41
7	Evaluation of a Companion Robot for Individuals With Dementia: Quantitative Findings of the MARIO Project in an Irish Residential Care Setting. Journal of Gerontological Nursing, 2019, 45, 36-45.	0.6	40
8	The Perceptions of People with Dementia and Key Stakeholders Regarding the Use and Impact of the Social Robot MARIO. International Journal of Environmental Research and Public Health, 2020, 17, 8621.	2.6	34
9	INVESTIGATION OF CLASSIFIERS FOR TUMOR DETECTION WITH AN EXPERIMENTAL TIME-DOMAIN BREAST SCREENING SYSTEM. Progress in Electromagnetics Research, 2014, 144, 45-57.	4.4	32
10	Sensitivity and Specificity Estimation Using Patient-Specific Microwave Imaging in Diverse Experimental Breast Phantoms. IEEE Transactions on Medical Imaging, 2019, 38, 303-311.	8.9	30
11	EXPERIMENTAL DEMONSTRATION OF PULSE SHAPING FOR TIME-DOMAIN MICROWAVE BREAST IMAGING. Progress in Electromagnetics Research, 2013, 133, 309-329.	4.4	26
12	Supervised Learning Classifiers for Electrical Impedance-based Bladder State Detection. Scientific Reports, 2018, 8, 5363.	3.3	26
13	Multi-frequency symmetry difference electrical impedance tomography with machine learning for human stroke diagnosis. Physiological Measurement, 2020, 41, 075010.	2.1	22
14	TIME-DOMAIN MICROWAVE RADAR APPLIED TO BREAST IMAGING: MEASUREMENT RELIABILITY IN A CLINICAL SETTING. Progress in Electromagnetics Research, 2014, 149, 119-132.	4.4	21
15	Modeling of the dielectric properties of biological tissues within the histology region. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3290-3301.	2.9	21
16	Brain haemorrhage detection using a SVM classifier with electrical impedance tomography measurement frames. PLoS ONE, 2018, 13, e0200469.	2.5	20
17	Introducing the Social Robot MARIO to People Living with Dementia in Long Term Residential Care: Reflections. International Journal of Social Robotics, 2020, 12, 535-547.	4.6	17
18	Effect of Dehydration on Dielectric Measurements of Biological Tissue as Function of Time. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 200-207.	3.4	17

#	Article	IF	Citations
19	Microwave Time-Domain Radar: Healthy Tissue Variations Over the Menstrual Cycle. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1310-1313.	4.0	16
20	ANATOMICALLY AND DIELECTRICALLY REALISTIC MICROWAVE HEAD PHANTOM WITH CIRCULATION AND RECONFIGURABLE LESIONS. Progress in Electromagnetics Research B, 2017, 78, 47-60.	1.0	16
21	Image-based classification of bladder state using electrical impedance tomography. Physiological Measurement, 2018, 39, 124001.	2.1	16
22	Dielectric Properties of Ovine Heart at Microwave Frequencies. Diagnostics, 2021, 11, 531.	2.6	10
23	SAR distribution in microwave breast screening: Results with TWTLTLA wideband antenna. , 2011, , .		9
24	MICROWAVE BREAST SCREENING IN THE TIME-DOMAIN: IDENTIFICATION AND COMPENSATION OF MEASUREMENT-INDUCED UNCERTAINTIES. Progress in Electromagnetics Research B, 2013, 55, 115-130.	1.0	9
25	Cost-sensitive ensemble classifiers for microwave breast cancer detection. , 2015, , .		9
26	Investigation of Anemia and the Dielectric Properties of Human Blood at Microwave Frequencies. IEEE Access, 2018, 6, 56885-56892.	4.2	9
27	Quality control of carbon-rubber tissue phantoms: Comparative MRI, CT, X-ray and UWB microwave measurements. , 2017, , .		7
28	Time-Domain Microwave Breast Cancer Detection: Extensive System Testing with Phantoms. Technology in Cancer Research and Treatment, 2013, 12, 131-143.	1.9	6
29	Investigation of antenna array configurations for microwave radar breast screening. , 2016, , .		6
30	Breast monitoring via time-domain microwave radar: Early clinical trial study. , 2014, 2014, 6601-4.		5
31	Investigation of classification algorithms for a prototype microwave breast cancer monitor. , 2014, , .		5
32	Comparison of microwave breast cancer detection results with breast phantom data and clinical trial data: Varying the number of antennas. , 2016, , .		5
33	Dielectric profile of blood clots to inform ischemic stroke treatments. , 2020, 2020, 3723-3726.		4
34	Investigating the Effect of Social Robot Embodiment. Studies in Health Technology and Informatics, 2017, 242, 523-526.	0.3	4
35	Microwave breast imaging: Time-domain experiments on tissue phantoms. , 2011, , .		3
36	Time-domain microwave cancer screening: Optimized pulse shaping applied to realistically shaped breast phantoms. , 2012, , .		3

#	Article	IF	Citations
37	Pulse shaping for time-domain microwave breast tumour detection: Experiments with realistic tissue phantoms. , 2012, , .		3
38	Time-domain microwave radar for breast screening: Initial testing with volunteers. , 2014, , .		3
39	Predicting Cole-Cole parameters of microfluids with microstrip technology. , 2014, , .		2
40	A miniaturized clock generator for a time-domain microwave breast health monitoring device. , 2016, , .		2
41	Low-cost hardware for a time-domain microwave system for breast health monitoring. , 2016, , .		2
42	Hybrid artifact removal for breast imaging applied to a time-domain microwave system. , 2016, , .		2
43	Linear Regression for Estimating Bladder Volume with Voltage Signals. , 2018, , .		2
44	Brain Haemorrhage Detection Through SVM Classification of Electrical Impedance Tomography Measurements. , 2019, , 211-244.		2
45	Signal analysis and phantom experiments for a miniaturized time-domain microwave breast health monitoring device. , 2017, , .		2
46	Time-domain microwave breast screening system: Testing with advanced realistic breast phantoms. , 2012, , .		1
47	Recent progress in ultra-wideband microwave breast cancer detection. , 2012, , .		1
48	Breast tissue screening with microwave time-domain radar: Initial clinical trials. , 2014, , .		1
49	Patient-Specific Debye Parameters for Human Blood. , 2019, 2019, 238-242.		1
50	Determining the Concentration of Red Blood Cells using Dielectric Properties. , 2020, , .		1
51	Fast Measurements of Dielectric Properties with Small Size Microwave Transceiver. , 2020, , .		1
52	Detailed Dielectric Characterisation of the Heart and Great Vessels. , 2020, , .		0