Essam A Rashed

List of Publications by Year
in descending order

74 papers	991 citations	471509 17 h-index	477307 29 g-index
75 all docs	75 docs citations	75 times ranked	936 citing authors

#	Article	IF	Citations
1	Influence of population density, temperature, and absolute humidity on spread and decay durations of COVID-19: A comparative study of scenarios in China, England, Germany, and Japan. One Health, 2021, 12, 100203.	3.4	99
2	Correlation between COVID-19 Morbidity and Mortality Rates in Japan and Local Population Density, Temperature, and Absolute Humidity. International Journal of Environmental Research and Public Health, 2020, 17, 5477.	2.6	88
3	Multiresolution mammogram analysis in multilevel decomposition. Pattern Recognition Letters, 2007, 28, 286-292.	4.2	81
4	Influence of Absolute Humidity, Temperature and Population Density on COVID-19 Spread and Decay Durations: Multi-Prefecture Study in Japan. International Journal of Environmental Research and Public Health, 2020, 17, 5354.	2.6	75
5	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1619-1630.	2.2	62
6	Image reconstruction for sparse-view CT and interior CT-introduction to compressed sensing and differentiated backprojection. Quantitative Imaging in Medicine and Surgery, 2013, 3, 147-61.	2.0	48
7	Deep learning model for fully automated breast cancer detection system from thermograms. PLoS ONE, 2022, 17, e0262349.	2.5	45
8	Statistical image reconstruction from limited projection data with intensity priors. Physics in Medicine and Biology, 2012, 57, 2039-2061.	3.0	32
9	Estimation of heat-related morbidity from weather data: A computational study in three prefectures of Japan over 2013â€"2018. Environment International, 2019, 130, 104907.	10.0	32
10	Measurement and image-based estimation of dielectric properties of biological tissues â€"past, present, and futureâ€". Physics in Medicine and Biology, 2022, 67, 14TR01.	3.0	32
11	Assessment of absorbed power density and temperature rise for nonplanar body model under electromagnetic exposure above 6 GHz. Physics in Medicine and Biology, 2020, 65, 224001.	3.0	29
12	Deep Learning-Based Development of Personalized Human Head Model With Non-Uniform Conductivity for Brain Stimulation. IEEE Transactions on Medical Imaging, 2020, 39, 2351-2362.	8.9	28
13	Infectivity Upsurge by COVID-19 Viral Variants in Japan: Evidence from Deep Learning Modeling. International Journal of Environmental Research and Public Health, 2021, 18, 7799.	2.6	23
14	Spatial Averaging Schemes of <i>In Situ</i> Electric Field for Low-Frequency Magnetic Field Exposures. IEEE Access, 2019, 7, 184320-184331.	4.2	22
15	One-Year Lesson: Machine Learning Prediction of COVID-19 Positive Cases with Meteorological Data and Mobility Estimate in Japan. International Journal of Environmental Research and Public Health, 2021, 18, 5736.	2.6	22
16	Estimation of Real-World Vaccination Effectiveness of mRNA COVID-19 Vaccines against Delta and Omicron Variants in Japan. Vaccines, 2022, 10, 430.	4.4	22
17	End-to-end semantic segmentation of personalized deep brain structures for non-invasive brain stimulation. Neural Networks, 2020, 125, 233-244.	5.9	20
18	Development of accurate human head models for personalized electromagnetic dosimetry using deep learning. NeuroImage, 2019, 202, 116132.	4.2	19

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19	An Improved Equilibrium Optimizer Algorithm for Features Selection: Methods and Analysis. IEEE Access, 2021, 9, 120309-120327.	4.2	18
20	Deep learning approach for breast cancer diagnosis. , 2019, , .		12
21	Human Head Skin Thickness Modeling for Electromagnetic Dosimetry. IEEE Access, 2019, 7, 46176-46186.	4.2	12
22	Learning-based estimation of dielectric properties and tissue density in head models for personalized radio-frequency dosimetry. Physics in Medicine and Biology, 2020, 65, 065001.	3.0	12
23	Knowledge discovery from emergency ambulance dispatch during COVID-19: A case study of Nagoya City, Japan. Journal of Biomedical Informatics, 2021, 117, 103743.	4.3	11
24	Probabilistic atlas prior for CT image reconstruction. Computer Methods and Programs in Biomedicine, 2016, 128, 119-136.	4.7	10
25	Sparsity-constrained three-dimensional image reconstruction for C-arm angiography. Computers in Biology and Medicine, 2015, 62, 141-153.	7.0	9
26	Influence of segmentation accuracy in structural MR head scans on electric field computation for TMS and tES. Physics in Medicine and Biology, 2021, 66, 064002.	3.0	9
27	GPR background removal using a directional total variation minimisation approach. Journal of Geophysics and Engineering, 2015, 12, 897-908.	1.4	8
28	Model-based approach for analyzing prevalence of nuclear cataracts in elderly residents. Computers in Biology and Medicine, 2020, 126, 104009.	7.0	7
29	Effect of Skin-to-Skin Contact on Stimulation Threshold and Dosimetry. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2704-2713.	2.2	7
30	High-Resolution EEG Source Localization in Segmentation-Free Head Models Based on Finite-Difference Method and Matching Pursuit Algorithm. Frontiers in Neuroscience, 2021, 15, 695668.	2.8	7
31	Social implementation and intervention with estimated morbidity of heat-related illnesses from weather data: A case study from Nagoya City, Japan. Sustainable Cities and Society, 2021, 74, 103203.	10.4	7
32	BinHOA: Efficient Binary Horse Herd Optimization Method for Feature Selection: Analysis and Validations. IEEE Access, 2022, 10, 26795-26816.	4.2	7
33	Towards high-resolution synchrotron radiation imaging with statistical iterative reconstruction. Journal of Synchrotron Radiation, 2013, 20, 116-124.	2.4	6
34	Brain AI: Deep Learning for Brain Stimulation. IEEE Pulse, 2019, 10, 3-5.	0.3	6
35	Comprehensive data analysis for development of custom qRT-PCR miRNA assay for glioblastoma: a prevalidation study. Epigenomics, 2019, 11, 367-380.	2.1	6
36	Did the Tokyo Olympic Games enhance the transmission of COVID-19? An interpretation with machine learning. Computers in Biology and Medicine, 2022, 146, 105548.	7.0	6

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37	Row-action image reconstruction algorithm using &#x2113;<inf>p</inf>-norm distance to a reference image. , 2011, , .		4
38	Three-dimensional angiography using mobile C-arm with IMU sensor attached: Initial study. , 2015, , .		4
39	An Interactive Mixed Reality Ray Tracing Rendering Mobile Application of Medical Data in Minimally Invasive Surgeries. International Journal of Interactive Mobile Technologies, 2019, 13, 29.	1.2	4
40	Large-Scale Analysis of the Head Proximity Effects on Antenna Performance Using Machine Learning Based Models. IEEE Access, 2020, 8, 154060-154071.	4.2	4
41	Evaluation of SAR and Temperature Rise in Human Hand Due to Contact Current From 100 kHz to 100 MHz. IEEE Access, 2020, 8, 200995-201004.	4.2	4
42	Double-Sided Sliding-Paraboloid (DSSP): A new tool for preprocessing GPR data. Computers and Geosciences, 2017, 102, 12-21.	4.2	3
43	Setting Reference Level in Human Safety Guidelines via Cortical Nerve Activation Intercomparison at IF. , 2019, , .		3
44	Practical statistical models for region-of-interest tomographic reconstruction and long object problem. , 2007, , .		2
45	Region-of-Interest reconstruction from truncated projection data under blind Object Support. , 2008, , .		2
46	Adaptive image denoising approach for low-dose computed tomography. , 2017, , .		2
47	Image Reconstruction using Self-Prior Information for Sparse-View Computed Tomography. , 2018, , .		2
48	An Interactive Mixed Reality Imaging System for Minimally Invasive Surgeries. , 2018, , .		2
49	Generation of Head Models for Brain Stimulation Using Deep Convolution Networks. , 2019, , .		2
50	Search-Based Regression Testing Optimization. International Journal of Open Source Software and Processes, 2021, 12, 1-20.	0.6	2
51	ECG Localization Method Based on Volume Conductor Model and Kalman Filtering. Sensors, 2021, 21, 4275.	3.8	2
52	Multi-Objective Adapted Binary Bat for Test Suite Reduction. Intelligent Automation and Soft Computing, 2022, 31, 781-797.	2.1	2
53	Blood vessels reconstruction in CT with shape prior approach. , 2016, , .		1
54	Needle detection in interventional pain management with 3D image reconstruction. , 2016, , .		1

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55	An interactive augmented reality imaging system for minimally invasive orthopedic surgery. , 2017, , .		1
56	Computer Aided Diagnosis System for Liver Cirrhosis Based on Ultrasound Images. , 2018, , .		1
57	An Interactive Mixed Reality Ray Tracing Rendering Mobile Application of Medical Data in Minimally Invasive Surgeries. International Journal of Online and Biomedical Engineering, 2019, 15, 4.	1.4	1
58	Low-dose multiphase abdominal CT reconstruction with phase-induced swap prior. Proceedings of SPIE, 2016, , .	0.8	1
59	Low Dose CT Image Restoration by Incremental Learning and Ant Colony Optimization. , 2016, , .		1
60	Sparsity-based method for ring artifact elimination in computed tomography. PLoS ONE, 2022, 17, e0268410.	2.5	1
61	Adaptive thresholding for robust iterative image reconstruction from limited views projection data. , 2011, , .		0
62	Iterative thresholding framework for row-action reconstruction from sparse projection data. , 2011, , .		0
63	Towards a high-resolution local tomography using statistical iterative reconstruction. , 2011, , .		0
64	Analytical fan-beam reconstruction algorithm for free-form trajectory with plus-minus weighting scheme. , 2012, , .		0
65	Development of interactive 3D imaging system for hepatic angiography. , 2013, , .		0
66	Compressed-sensing-based three-dimensional image reconstruction algorithm for C-arm vascular imaging. , 2014, , .		0
67	Low-dose CT image reconstruction method with probabilistic atlas prior. , 2015, , .		0
68	Three-dimensional blood vessel detection from small number of views CT imaging. , 2016, , .		0
69	Atlas-Based interior tomography. , 2016, , .		0
70	Atlas-based image reconstruction for breast CT imaging using non-isocentric C-Arm scanner. , 2016, , .		0
71	Compressed sensing of sparsity-constrained total variation minimization for CT image reconstruction. Proceedings of SPIE, 2017, , .	0.8	0
72	Image Reconstruction with Variational Networks: Application to Synchrotron Radiation Imaging. , 2018, , .		0

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73	Image Denoising Technique for CT Dose Modulation. , 2018, , .		0
74	An Elliptical Basis Function Network for Non-blind Image Deconvolution. , 2015, , .		0