

Essam A Rashed

List of Publications by Year in descending order

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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	Multi-Objective Adapted Binary Bat for Test Suite Reduction. <i>Intelligent Automation and Soft Computing</i> , 2022, 31, 781-797.	2.1	2
2	Deep learning model for fully automated breast cancer detection system from thermograms. <i>PLoS ONE</i> , 2022, 17, e0262349.	2.5	45
3	BinHOA: Efficient Binary Horse Herd Optimization Method for Feature Selection: Analysis and Validations. <i>IEEE Access</i> , 2022, 10, 26795-26816.	4.2	7
4	Estimation of Real-World Vaccination Effectiveness of mRNA COVID-19 Vaccines against Delta and Omicron Variants in Japan. <i>Vaccines</i> , 2022, 10, 430.	4.4	22
5	Did the Tokyo Olympic Games enhance the transmission of COVID-19? An interpretation with machine learning. <i>Computers in Biology and Medicine</i> , 2022, 146, 105548.	7.0	6
6	Measurement and image-based estimation of dielectric properties of biological tissues “past, present, and future”. <i>Physics in Medicine and Biology</i> , 2022, 67, 14TR01.	3.0	32
7	Sparsity-based method for ring artifact elimination in computed tomography. <i>PLoS ONE</i> , 2022, 17, e0268410.	2.5	1
8	Influence of segmentation accuracy in structural MR head scans on electric field computation for TMS and tES. <i>Physics in Medicine and Biology</i> , 2021, 66, 064002.	3.0	9
9	Search-Based Regression Testing Optimization. <i>International Journal of Open Source Software and Processes</i> , 2021, 12, 1-20.	0.6	2
10	Knowledge discovery from emergency ambulance dispatch during COVID-19: A case study of Nagoya City, Japan. <i>Journal of Biomedical Informatics</i> , 2021, 117, 103743.	4.3	11
11	One-Year Lesson: Machine Learning Prediction of COVID-19 Positive Cases with Meteorological Data and Mobility Estimate in Japan. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5736.	2.6	22
12	High-Resolution EEG Source Localization in Segmentation-Free Head Models Based on Finite-Difference Method and Matching Pursuit Algorithm. <i>Frontiers in Neuroscience</i> , 2021, 15, 695668.	2.8	7
13	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. <i>One Health</i> , 2021, 12, 100203.	3.4	99
14	ECG Localization Method Based on Volume Conductor Model and Kalman Filtering. <i>Sensors</i> , 2021, 21, 4275.	3.8	2
15	Infectivity Upsurge by COVID-19 Viral Variants in Japan: Evidence from Deep Learning Modeling. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7799.	2.6	23
16	Social implementation and intervention with estimated morbidity of heat-related illnesses from weather data: A case study from Nagoya City, Japan. <i>Sustainable Cities and Society</i> , 2021, 74, 103203.	10.4	7
17	An Improved Equilibrium Optimizer Algorithm for Features Selection: Methods and Analysis. <i>IEEE Access</i> , 2021, 9, 120309-120327.	4.2	18
18	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021, 63, 1619-1630.	2.2	62

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19	Model-based approach for analyzing prevalence of nuclear cataracts in elderly residents. <i>Computers in Biology and Medicine</i> , 2020, 126, 104009.	7.0	7
20	Influence of Absolute Humidity, Temperature and Population Density on COVID-19 Spread and Decay Durations: Multi-Prefecture Study in Japan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5354.	2.6	75
21	Correlation between COVID-19 Morbidity and Mortality Rates in Japan and Local Population Density, Temperature, and Absolute Humidity. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5477.	2.6	88
22	Large-Scale Analysis of the Head Proximity Effects on Antenna Performance Using Machine Learning Based Models. <i>IEEE Access</i> , 2020, 8, 154060-154071.	4.2	4
23	Evaluation of SAR and Temperature Rise in Human Hand Due to Contact Current From 100 kHz to 100 MHz. <i>IEEE Access</i> , 2020, 8, 200995-201004.	4.2	4
24	Effect of Skin-to-Skin Contact on Stimulation Threshold and Dosimetry. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 2704-2713.	2.2	7
25	End-to-end semantic segmentation of personalized deep brain structures for non-invasive brain stimulation. <i>Neural Networks</i> , 2020, 125, 233-244.	5.9	20
26	Deep Learning-Based Development of Personalized Human Head Model With Non-Uniform Conductivity for Brain Stimulation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2351-2362.	8.9	28
27	Learning-based estimation of dielectric properties and tissue density in head models for personalized radio-frequency dosimetry. <i>Physics in Medicine and Biology</i> , 2020, 65, 065001.	3.0	12
28	Assessment of absorbed power density and temperature rise for nonplanar body model under electromagnetic exposure above 6 GHz. <i>Physics in Medicine and Biology</i> , 2020, 65, 224001.	3.0	29
29	Brain AI: Deep Learning for Brain Stimulation. <i>IEEE Pulse</i> , 2019, 10, 3-5.	0.3	6
30	An Interactive Mixed Reality Ray Tracing Rendering Mobile Application of Medical Data in Minimally Invasive Surgeries. <i>International Journal of Online and Biomedical Engineering</i> , 2019, 15, 4.	1.4	1
31	An Interactive Mixed Reality Ray Tracing Rendering Mobile Application of Medical Data in Minimally Invasive Surgeries. <i>International Journal of Interactive Mobile Technologies</i> , 2019, 13, 29.	1.2	4
32	Development of accurate human head models for personalized electromagnetic dosimetry using deep learning. <i>NeuroImage</i> , 2019, 202, 116132.	4.2	19
33	Generation of Head Models for Brain Stimulation Using Deep Convolution Networks. , 2019, , .		2
34	Deep learning approach for breast cancer diagnosis. , 2019, , .		12
35	Estimation of heat-related morbidity from weather data: A computational study in three prefectures of Japan over 2013â€”2018. <i>Environment International</i> , 2019, 130, 104907.	10.0	32
36	Human Head Skin Thickness Modeling for Electromagnetic Dosimetry. <i>IEEE Access</i> , 2019, 7, 46176-46186.	4.2	12

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37	Comprehensive data analysis for development of custom qRT-PCR miRNA assay for glioblastoma: a prevalidation study. Epigenomics, 2019, 11, 367-380.	2.1	6
38	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
39	Setting Reference Level in Human Safety Guidelines via Cortical Nerve Activation Intercomparison at IF., 2019, , .		3
40	Image Reconstruction using Self-Prior Information for Sparse-View Computed Tomography. , 2018, , .		2
41	Image Reconstruction with Variational Networks: Application to Synchrotron Radiation Imaging. , 2018, , .		0
42	An Interactive Mixed Reality Imaging System for Minimally Invasive Surgeries. , 2018, , .		2
43	Computer Aided Diagnosis System for Liver Cirrhosis Based on Ultrasound Images. , 2018, , .		1
44	Image Denoising Technique for CT Dose Modulation. , 2018, , .		0
45	Compressed sensing of sparsity-constrained total variation minimization for CT image reconstruction. Proceedings of SPIE, 2017, , .	0.8	0
46	Double-Sided Sliding-Paraboloid (DSSP): A new tool for preprocessing GPR data. Computers and Geosciences, 2017, 102, 12-21.	4.2	3
47	An interactive augmented reality imaging system for minimally invasive orthopedic surgery. , 2017, , .		1
48	Adaptive image denoising approach for low-dose computed tomography. , 2017, , .		2
49	Three-dimensional blood vessel detection from small number of views CT imaging. , 2016, , .		0
50	Atlas-Based interior tomography. , 2016, , .		0
51	Blood vessels reconstruction in CT with shape prior approach. , 2016, , .		1
52	Needle detection in interventional pain management with 3D image reconstruction. , 2016, , .		1
53	Atlas-based image reconstruction for breast CT imaging using non-isocentric C-Arm scanner. , 2016, , .		0
54	Probabilistic atlas prior for CT image reconstruction. Computer Methods and Programs in Biomedicine, 2016, 128, 119-136.	4.7	10

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55	Low-dose multiphase abdominal CT reconstruction with phase-induced swap prior. Proceedings of SPIE, 2016, , .	0.8	1
56	Low Dose CT Image Restoration by Incremental Learning and Ant Colony Optimization. , 2016, , .		1
57	Low-dose CT image reconstruction method with probabilistic atlas prior. , 2015, , .		0
58	Three-dimensional angiography using mobile C-arm with IMU sensor attached: Initial study. , 2015, , .		4
59	GPR background removal using a directional total variation minimisation approach. Journal of Geophysics and Engineering, 2015, 12, 897-908.	1.4	8
60	Sparsity-constrained three-dimensional image reconstruction for C-arm angiography. Computers in Biology and Medicine, 2015, 62, 141-153.	7.0	9
61	An Elliptical Basis Function Network for Non-blind Image Deconvolution. , 2015, , .		0
62	Compressed-sensing-based three-dimensional image reconstruction algorithm for C-arm vascular imaging. , 2014, , .		0
63	Towards high-resolution synchrotron radiation imaging with statistical iterative reconstruction. Journal of Synchrotron Radiation, 2013, 20, 116-124.	2.4	6
64	Development of interactive 3D imaging system for hepatic angiography. , 2013, , .		0
65	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
66	Statistical image reconstruction from limited projection data with intensity priors. Physics in Medicine and Biology, 2012, 57, 2039-2061.	3.0	32
67	Analytical fan-beam reconstruction algorithm for free-form trajectory with plus-minus weighting scheme. , 2012, , .		0
68	Row-action image reconstruction algorithm using $\ \cdot \ _p$ -norm distance to a reference image. , 2011, , .		4
69	Adaptive thresholding for robust iterative image reconstruction from limited views projection data. , 2011, , .		0
70	Iterative thresholding framework for row-action reconstruction from sparse projection data. , 2011, , .		0
71	Towards a high-resolution local tomography using statistical iterative reconstruction. , 2011, , .		0
72	Region-of-Interest reconstruction from truncated projection data under blind Object Support. , 2008, , .		2

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73	Practical statistical models for region-of-interest tomographic reconstruction and long object problem. , 2007, , .		2
74	Multiresolution mammogram analysis in multilevel decomposition. Pattern Recognition Letters, 2007, 28, 286-292.	4.2	81