

Yasser M Kadah

List of Publications by Year in descending order

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145
papers

1,853
citations

430442

18
h-index

301761

39
g-index

146
all docs

146
docs citations

146
times ranked

1705
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time speckle reduction and coherence enhancement in ultrasound imaging via nonlinear anisotropic diffusion. IEEE Transactions on Biomedical Engineering, 2002, 49, 997-1014.	2.5	350
2	Classification algorithms for quantitative tissue characterization of diffuse liver disease from ultrasound images. IEEE Transactions on Medical Imaging, 1996, 15, 466-478.	5.4	226
3	Study of features based on nonlinear dynamical modeling in ECG arrhythmia detection and classification. IEEE Transactions on Biomedical Engineering, 2002, 49, 733-736.	2.5	211
4	An Automatic Computer-Aided Diagnosis System for Breast Cancer in Digital Mammograms via Deep Belief Network. Journal of Medical and Biological Engineering, 2018, 38, 443-456.	1.0	94
5	Simulated phase evolution rewinding (SPHERE): A technique for reducing B0 inhomogeneity effects in MR images. Magnetic Resonance in Medicine, 1997, 38, 615-627.	1.9	72
6	Classification of heart sounds using fractional fourier transform based mel-frequency spectral coefficients and traditional classifiers. Biomedical Signal Processing and Control, 2020, 57, 101788.	3.5	56
7	Functional magnetic resonance imaging and transcranial magnetic stimulation: Effects of motor imagery, movement and coil orientation. Clinical Neurophysiology, 2005, 116, 1601-1610.	0.7	52
8	Characterisation of electrocardiogram signals based on blind source separation. Medical and Biological Engineering and Computing, 2002, 40, 557-564.	1.6	50
9	Algebraic reconstruction for magnetic resonance imaging under B/sub 0/ inhomogeneity. IEEE Transactions on Medical Imaging, 1998, 17, 362-370.	5.4	48
10	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. PLoS ONE, 2020, 15, e0230409.	1.1	46
11	Enhancing measured diffusion anisotropy in gray matter by eliminating CSF contamination with FLAIR. Magnetic Resonance in Medicine, 2004, 51, 423-427.	1.9	31
12	Determination of the optical properties of a two-layer tissue model by detecting photons migrating at progressively increasing depths. Applied Optics, 2003, 42, 6398.	2.1	27
13	A Hybrid Deep Transfer Learning of CNN-Based LR-PCA for Breast Lesion Diagnosis via Medical Breast Mammograms. Sensors, 2022, 22, 4938.	2.1	25
14	A new real-time retinal tracking system for image-guided laser treatment. IEEE Transactions on Biomedical Engineering, 2002, 49, 1059-1067.	2.5	23
15	Classification of Heart Sounds Using Fractional Fourier Transform Based Mel-Frequency Spectral Coefficients and Stacked Autoencoder Deep Neural Network. Journal of Medical Imaging and Health Informatics, 2019, 9, 1-8.	0.2	22
16	Floating navigator echo (FNAV) for in-plane 2D translational motion estimation. Magnetic Resonance in Medicine, 2004, 51, 403-407.	1.9	21
17	Adaptive Denoising of Event-Related Functional Magnetic Resonance Imaging Data Using Spectral Subtraction. IEEE Transactions on Biomedical Engineering, 2004, 51, 1944-1953.	2.5	20
18	Speckle noise reduction method combining total variation and wavelet shrinkage for clinical ultrasound imaging. , 2011, , .		19

#	ARTICLE	IF	CITATIONS
19	Construction of gene regulatory networks using biclustering and bayesian networks. Theoretical Biology and Medical Modelling, 2011, 8, 39.	2.1	18
20	Machine Learning Methodologies in Brain-Computer Interface Systems. , 2008, , .		17
21	Characterization of phase space trajectories for Brain-Computer Interface. Biomedical Signal Processing and Control, 2017, 38, 55-66.	3.5	17
22	Multi resolution bilateral filter for MR image denoising. , 2011, , .		16
23	Deconvolution-interpolation gridding (DING): Accurate reconstruction for arbitraryk-space trajectories. Magnetic Resonance in Medicine, 2006, 56, 1182-1191.	1.9	15
24	Hybrid Total Variation and Wavelet Thresholding Speckle Reduction for Medical Ultrasound Imaging. Journal of Medical Imaging and Health Informatics, 2012, 2, 114-124.	0.2	15
25	Detection of biomarkers for Hepatocellular Carcinoma using a hybrid univariate gene selection methods. Theoretical Biology and Medical Modelling, 2012, 9, 34.	2.1	14
26	Spectral subtraction denoising preprocessing block to improve P300-based brain-computer interfacing. BioMedical Engineering OnLine, 2014, 13, 36.	1.3	13
27	A New Method for Data Acquisition and Image Reconstruction in Parallel Magnetic Resonance Imaging. , 2008, , .		12
28	GPU-based reconstruction and display for 4D ultrasound data. , 2009, , .		11
29	Improving the prediction of yeast protein function using weighted protein-protein interactions. Theoretical Biology and Medical Modelling, 2011, 8, 11.	2.1	11
30	K11. Modified Hybrid Median filter for image denoising. , 2012, , .		11
31	Development of a computer-aided classification system for cancer detection from digital mammograms. , 2008, , .		10
32	Computer-Aided Diagnostic System based on Wavelet Analysis for Microcalcification Detection in Digital Mammograms. , 2008, , .		10
33	Extraction of human mandible bones from multi-slice computed tomographic data. , 2011, , .		9
34	Orthogonal matching pursuit & compressive sampling matching pursuit for Doppler ultrasound signal reconstruction. , 2012, , .		9
35	A rapid algebraic 3D volume image reconstruction technique for cone beam computed tomography. Biocybernetics and Biomedical Engineering, 2017, 37, 619-629.	3.3	9
36	Robust Computer-Aided Detection of Pulmonary Nodules from Chest Computed Tomography. Journal of Medical Imaging and Health Informatics, 2016, 6, 693-699.	0.2	9

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37	Pseudo-Fourier imaging (PFI): a technique for spatial encoding in MRI. IEEE Transactions on Medical Imaging, 1997, 16, 893-902.	5.4	8
38	Computer aided diagnosis of digital mammograms. , 2007, , .		8
39	Computer assisted determination of mandibular cystic lesion volume from computed tomographic data. , 2011, , .		8
40	Computer aided diagnosis in digital mammography using combined support vector machine and linear discriminant analysis classification. , 2009, , .		7
41	Multiple measurements vectors compressed sensing for Doppler ultrasound signal reconstruction. , 2013, , .		7
42	Progressive Magnetic Resonance Image Reconstruction Based on Iterative Solution of a Sparse Linear System. International Journal of Biomedical Imaging, 2006, 2006, 1-9.	3.0	6
43	Electrocardiogram signals identification for cardiac arrhythmias using prony's method and neural network. , 2009, 2009, 1893-6.		6
44	Computer-aided diagnosis of digital mammography images using unsupervised clustering and biclustering techniques. , 2010, , .		6
45	FINITE ELEMENT MODELS FOR COMPUTER SIMULATION OF INTRASTROMAL PHOTOREFRACTIVE KERATECTOMY. Journal of Mechanics in Medicine and Biology, 2011, 11, 1255-1270.	0.3	6
46	Spectral Subtraction Denoising Preprocessing Block to Improve Slow Cortical Potential Based Brain-Computer Interface. Journal of Medical and Biological Engineering, 2018, 38, 87-98.	1.0	6
47	New solution to the gridding problem. , 2002, , .		6
48	Detecting nonlinear dynamics of functional connectivity. , 2004, , .		5
49	Extraction of protein interaction information from unstructured text using a link grammar parser. , 2007, , .		5
50	Microcalcifications Enhancement in Digital Mammograms using Fractal Modeling. , 2008, , .		5
51	Modular FPGA-based digital ultrasound beamforming. , 2011, , .		5
52	Modified non-local means filter for effective speckle reduction in ultrasound images. , 2011, , .		5
53	Genomic signatures and associative classification of the Hemagglutinin protein for Human versus Avian versus Swine influenza A viruses. , 2011, , .		5
54	Arrhythmia classification based on novel distance series transform of phase space trajectories. , 2015, 2015, 5195-8.		5

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55	<title>Automatic tissue characterization from ultrasound imagery</title>. , 1993, , .		4
56	Robust ordering of independent components in functional magnetic resonance imaging time series data using canonical correlation analysis. , 2003, , .		4
57	Combined intra- and inter-slice motion artifact suppression in magnetic resonance imaging. , 2003, , .		4
58	Reconstruction using optimal spatially variant kernel for B-mode ultrasound imaging. , 2003, 5035, 147.		4
59	PC-based modular digital ultrasound imaging system. , 2009, , .		4
60	INFLUENZA A SUBTYPING AND HOST ORIGIN CLASSIFICATION USING PROFILE HIDDEN MARKOV MODELS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240009.	0.3	4
61	Wavelet Domain Bilateral Filtering with Subband Mixing for Magnetic Resonance Image Enhancement. Journal of Medical Imaging and Health Informatics, 2012, 2, 230-237.	0.2	4
62	Multipass GPU surface rendering in 4D ultrasound. , 2012, , .		4
63	High performance CUDA-based implementation for the 2D version of the Maximum Subarray Problem (MSP). , 2012, , .		4
64	Image restoration techniques in super-resolution reconstruction of MRI images. , 2016, , .		4
65	Study of wavelet-based performance enhancement for motor imagery brain-computer interface. , 2018, , .		4
66	<title>Real-time retinal tracking for laser treatment planning and administration</title>. , 2001, , .		3
67	<title>Spatio-temporal analysis of color Doppler information using independent component analysis</title>. , 2002, , .		3
68	Navigator Echo Motion Artifact Suppression in Synthetic Aperture Ultrasound Imaging. IEEE Transactions on Biomedical Engineering, 2005, 52, 127-131.	2.5	3
69	Exploring protein functions correlation based on overlapping proteins and cluster interactions. , 2011, , .		3
70	Evaluation of missing values imputation methods in cDNA microarrays based on classification accuracy. , 2011, , .		3
71	Embedded digital signal processing for digital ultrasound imaging. , 2011, , .		3
72	Optimized Graphical Processing Unit Processing Framework for Surface Rendering in 4D Ultrasound Imaging. Journal of Medical Imaging and Health Informatics, 2014, 4, 197-202.	0.2	3

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73	Electrode reduction using ICA and PCA in P300 Visual Speller Brain-Computer Interface system. , 2014, , .		3
74	Implementation of practical computer aided diagnosis system for classification of masses in digital mammograms. , 2015, , .		3
75	Extracting Phase Space Morphological Features for Electroencephalogram-Based Brain-Computer Interface. Journal of Medical Imaging and Health Informatics, 2017, 7, 771-774.	0.2	3
76	<title>Content-based image retrieval strategies for medical image libraries</title>. , 2001, 4322, 1046.		2
77	Image reconstruction using shift-variant resampling kernel for magnetic resonance imaging. , 2002, 4684, 825.		2
78	Nonparametric clutter rejection in Doppler ultrasound using principal component analysis. , 2003, 5035, 258.		2
79	Robust multi-component modeling of diffusion tensor magnetic resonance imaging data. , 2005, , .		2
80	Activation Detection in Functional MRI Using Model-Free Technique Based On CCA-ICA Analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3430-3.	0.5	2
81	A three-dimensional finite element analysis of the osseointegration progression in the human mandible. Proceedings of SPIE, 2010, , .	0.8	2
82	Parallel Computation in Medical Imaging Applications. International Journal of Biomedical Imaging, 2011, 2011, 1-2.	3.0	2
83	K3. Synthetic transmit aperture medical ultrasound imaging. , 2012, , .		2
84	K4. Gene network construction and pathways analysis for high throughput microarrays. , 2012, , .		2
85	Investigation of New Unsupervised Processing Methods for P300-Based Brain-Computer Interface. Journal of Medical Imaging and Health Informatics, 2014, 4, 363-369.	0.2	2
86	Improving P300 and SCP-based Brain computer interfacing by spectral subtraction denoising. , 2014, , .		2
87	Entropy Based Phase Aberration Correction Technique in Ultrasound Imaging. , 2007, , .		2
88	Efficient design of ultrasound true-velocity flow mapping. IEEE Engineering in Medicine and Biology Magazine, 1996, 15, 118-125.	1.1	1
89	<title>Pseudobased coherent diffusion for robust real-time ultrasound speckle reduction</title>. , 2001, 4322, 776.		1
90	<title>Integration of content-based image retrieval system with PACS</title>. , 2001, 4323, 325.		1

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91	<title>Navigator echo-based in-slice motion artifact suppression in ultrasound images based on synthetic aperture</title> . , 2001, 4325, 445.		1
92	Robust analysis of event-related functional magnetic resonance imaging data using independent component analysis. , 2002, , .		1
93	Successive optimization for fast-phase aberration correction. , 2003, 5035, 327.		1
94	Nonparametric suppression of random and physiological noise components in functional magnetic resonance imaging using cross-correlation spectrum subtraction. , 2003, , .		1
95	Novel Multi-Tensor Estimation for High-Resolution Diffusion Tensor Magnetic Resonance Imaging. , 2006, , .		1
96	Ultrafast Phase Aberration Correction in Ultrasound Imaging Using a Simple Model for Fat Layer. , 2006, , .		1
97	Calculations of Heating Patterns of Interstitial Antenna for Brain Tumors Hyperthermia Treatment Planning. , 2006, , .		1
98	Fast phase aberration correction in ultrasound imaging using fat layer model. , 2007, , .		1
99	Objective Analysis Of Ultrasound Images By Use Of A Computational Observer. , 2008, , .		1
100	Motion artifact suppression in MRI using k-Space overlap processing. , 2008, , .		1
101	Novel Computational Apoptosis-Neurogenesis Model for Multi-Abstraction Level Perception. , 2008, , .		1
102	Digital Color Doppler Signal Processing. , 2008, , .		1
103	Rapid cardiac MRI using random radial trajectories. , 2008, , .		1
104	Enhanced PIELG: A Protein Interaction Extraction System using a Link Grammar Parser from biomedical abstracts. , 2008, , .		1
105	An automatic gene ontology software tool for bicluster and cluster comparisons. , 2009, , .		1
106	Inferring visual system connectivity using dynamic causal modeling of functional magnetic resonance imaging data. Proceedings of SPIE, 2010, , .	0.8	1
107	Optimizing kernel size in generalized auto-calibrating partially parallel acquisition in parallel magnetic resonance imaging. Proceedings of SPIE, 2010, , .	0.8	1
108	Classification of human vs. non-human, and subtyping of human influenza viral strains using Profile Hidden Markov Models. , 2011, , .		1

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109	A new clutter rejection technique for Doppler ultrasound signal based on principal and independent component analyses. , 2012, , .		1
110	K1. High performance compressed sensing MRI image reconstruction. , 2012, , .		1
111	K8. Hand-Held Computer Aided Diagnosis System with Application in Mammography. , 2013, , .		1
112	Spectral subtraction denoising improves accuracy of Slow Cortical Potential based brain-computer interfacing. , 2014, , .		1
113	4D ultrasound adaptive image pre-processing. , 2018, , .		1
114	<title>Dynamic imaging reconstruction using linear associative memories</title>. , 2000, 3979, 1247.		0
115	<title>Improved ultrasound speckle motion tracking using nonlinear diffusion filtering</title>. , 2001, , .		0
116	Improved cardiac wall motion tracking based on harmonic phase technique. , 2002, , .		0
117	Computer-assisted radiographic characterization of alloimplant materials used as bone substitutes in dentistry. , 2003, , .		0
118	Encoded multiple simultaneous aperture acquisition for improved signal-to-noise ratio in ultrasound imaging. , 2003, , .		0
119	Robust ICA analysis for model-free functional connectivity detection. , 2004, , .		0
120	Optimal Radiofrequency Pulse Design for Magnetic Resonance Imaging Using Genetic Algorithms. , 2006, , .		0
121	Dipole Antenna for Interstitial Microwave Heating in a Dissipative medium: A Design Prospective. , 2006, , .		0
122	Two clustering techniques of myocardium using C-SENC images: A comparison with multi-stage clustering. , 2007, , .		0
123	Study of Nerve Fiber Tracking Methodologies using Diffusion Tensor Magnetic Resonance Imaging. , 2008, , .		0
124	Modeling Intrastromal Photorefractive Keratectomy Procedures. , 2008, , .		0
125	Study of the sources of errors in fiber tracking using diffusion tensor MRI. , 2008, , .		0
126	Multi-component fiber track modelling of diffusion-weighted magnetic resonance imaging data. Journal of Advanced Research, 2010, 1, 39-51.	4.4	0

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127	Yeast protein function motif extraction based on sequence alignment. , 2011, , .		0
128	Brain causality investigation based on fMRI images time series using dynamic causal modelling augmented by Granger Causality. , 2011, , .		0
129	The impact of missing values imputation methods in cDNA microarrays on downstream data analysis. , 2011, , .		0
130	Overlapped k-Space Acquisition and Reconstruction Technique for Motion Artifact Reduction in Magnetic Resonance Imaging. Journal of Medical Imaging and Health Informatics, 2011, 1, 61-65.	0.2	0
131	Selected Peer-Reviewed Articles from First Middle East Conference on Biomedical Engineering (MECBME). Journal of Medical Imaging and Health Informatics, 2011, 1, 197-198.	0.2	0
132	Embedded magnetic resonance image reconstruction using. , 2012, , .		0
133	K10. Embedded real time ultrasound system. , 2012, , .		0
134	Ultrasound elastography as a motion estimation problem. , 2013, , .		0
135	K2. Motion Estimation for Ultrasound Elastography Using Optimized Block Matching with Lateral Continuity Correction. , 2013, , .		0
136	Study of compressed sensing application to low dose computed tomography data collection. , 2014, , .		0
137	Prediction of binding peptides to class I Major Histocompatibility Complex using modified scoring matrices and data splitting strategies. Biocybernetics and Biomedical Engineering, 2016, 36, 509-520.	3.3	0
138	Implementation of a Pulsed-Wave Spectral Doppler Module on a Programmable Ultrasound System. , 2018, , .		0
139	Determination of the optical properties of layered tissues based on detecting the photons migrated within each layer: application to two-layer model. , 2003, , .		0
140	Clutter Rejection for Doppler Ultrasound Based on Blind Source Separation. Journal of Medical Imaging and Health Informatics, 2013, 3, 187-194.	0.2	0
141	Robust Classification of Major Histocompatibility Complex Class II Peptides. Journal of Medical Imaging and Health Informatics, 2016, 6, 598-608.	0.2	0
142	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
143	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
144	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0

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145	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0