

# 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	A Hybrid Deep Transfer Learning of CNN-Based LR-PCA for Breast Lesion Diagnosis via Medical Breast Mammograms. <i>Sensors</i> , 2022, 22, 4938.	2.1	25
2	Classification of heart sounds using fractional fourier transform based mel-frequency spectral coefficients and traditional classifiers. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101788.	3.5	56
3	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. <i>PLoS ONE</i> , 2020, 15, e0230409.	1.1	46
4	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
5	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
6	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
7	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. , 2020, 15, e0230409.		0
8	Classification of Heart Sounds Using Fractional Fourier Transform Based Mel-Frequency Spectral Coefficients and Stacked Autoencoder Deep Neural Network. <i>Journal of Medical Imaging and Health Informatics</i> , 2019, 9, 1-8.	0.2	22
9	Study of wavelet-based performance enhancement for motor imagery brain-computer interface. , 2018, , .		4
10	Spectral Subtraction Denoising Preprocessing Block to Improve Slow Cortical Potential Based Brain-Computer Interface. <i>Journal of Medical and Biological Engineering</i> , 2018, 38, 87-98.	1.0	6
11	An Automatic Computer-Aided Diagnosis System for Breast Cancer in Digital Mammograms via Deep Belief Network. <i>Journal of Medical and Biological Engineering</i> , 2018, 38, 443-456.	1.0	94
12	Implementation of a Pulsed-Wave Spectral Doppler Module on a Programmable Ultrasound System. , 2018, , .		0
13	4D ultrasound adaptive image pre-processing. , 2018, , .		1
14	Characterization of phase space trajectories for Brain-Computer Interface. <i>Biomedical Signal Processing and Control</i> , 2017, 38, 55-66.	3.5	17
15	A rapid algebraic 3D volume image reconstruction technique for cone beam computed tomography. <i>Biocybernetics and Biomedical Engineering</i> , 2017, 37, 619-629.	3.3	9
16	Extracting Phase Space Morphological Features for Electroencephalogram-Based Brain-Computer Interface. <i>Journal of Medical Imaging and Health Informatics</i> , 2017, 7, 771-774.	0.2	3
17	Prediction of binding peptides to class I Major Histocompatibility Complex using modified scoring matrices and data splitting strategies. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 509-520.	3.3	0
18	Image restoration techniques in super-resolution reconstruction of MRI images. , 2016, , .		4

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19	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
20	Robust Classification of Major Histocompatibility Complex Class II Peptides. Journal of Medical Imaging and Health Informatics, 2016, 6, 598-608.	0.2	0
21	Arrhythmia classification based on novel distance series transform of phase space trajectories. , 2015, 2015, 5195-8.		5
22	Implementation of practical computer aided diagnosis system for classification of masses in digital mammograms. , 2015, , .		3
23	Spectral subtraction denoising improves accuracy of Slow Cortical Potential based brain-computer interfacing. , 2014, , .		1
24	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
25	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
26	Study of compressed sensing application to low dose computed tomography data collection. , 2014, , .		0
27	Electrode reduction using ICA and PCA in P300 Visual Speller Brain-Computer Interface system. , 2014, , .		3
28	Spectral subtraction denoising preprocessing block to improve P300-based brain-computer interfacing. BioMedical Engineering OnLine, 2014, 13, 36.	1.3	13
29	Improving P300 and SCP-based Brain computer interfacing by spectral subtraction denoising. , 2014, , .		2
30	Ultrasound elastography as a motion estimation problem. , 2013, , .		0
31	Multiple measurements vectors compressed sensing for Doppler ultrasound signal reconstruction. , 2013, , .		7
32	K2. Motion Estimation for Ultrasound Elastography U sing Optimized Block Matching with Lateral Continuity Correction. , 2013, , .		0
33	K8. Hand-Held Computer Aided Diagnosis System with Application in Mammography. , 2013, , .		1
34	Clutter Rejection for Doppler Ultrasound Based on Blind Source Separation. Journal of Medical Imaging and Health Informatics, 2013, 3, 187-194.	0.2	0
35	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
36	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

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37	K3. Synthetic transmit aperture medical ultrasound imaging. , 2012, , .		2
38	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
39	A new clutter rejection technique for Doppler ultrasound signal based on principal and independent component analyses. , 2012, , .		1
40	Orthogonal matching pursuit & compressive sampling matching pursuit for Doppler ultrasound signal reconstruction. , 2012, , .		9
41	Embedded magnetic resonance image reconstruction using. , 2012, , .		0
42	K4. Gene network construction and pathways analysis for high throughput microarrays. , 2012, , .		2
43	K10. Embedded real time ultrasound system. , 2012, , .		0
44	Multipass GPU surface rendering in 4D ultrasound. , 2012, , .		4
45	K1. High performance compressed sensing MRI image reconstruction. , 2012, , .		1
46	High performance CUDA-based implementation for the 2D version of the Maximum Subarray Problem (MSP). , 2012, , .		4
47	K11. Modified Hybrid Median filter for image denoising. , 2012, , .		11
48	Detection of biomarkers for Hepatocellular Carcinoma using a hybrid univariate gene selection methods. Theoretical Biology and Medical Modelling, 2012, 9, 34.	2.1	14
49	Computer assisted determination of mandibular cystic lesion volume from computed tomographic data. , 2011, , .		8
50	Speckle noise reduction method combining total variation and wavelet shrinkage for clinical ultrasound imaging. , 2011, , .		19
51	Exploring protein functions correlation based on overlapping proteins and cluster interactions. , 2011, , .		3
52	Yeast protein function motif extraction based on sequence alignment. , 2011, , .		0
53	Evaluation of missing values imputation methods in cDNA microarrays based on classification accuracy. , 2011, , .		3
54	Modular FPGA-based digital ultrasound beamforming. , 2011, , .		5

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55	Modified non-local means filter for effective speckle reduction in ultrasound images. , 2011, , .		5
56	Brain causality investigation based on fMRI images time series using dynamic causal modelling augmented by Granger Causality. , 2011, , .		0
57	Extraction of human mandible bones from multi-slice computed tomographic data. , 2011, , .		9
58	The impact of missing values imputation methods in cDNA microarrays on downstream data analysis. , 2011, , .		0
59	Embedded digital signal processing for digital ultrasound imaging. , 2011, , .		3
60	Classification of human vs. non-human, and subtyping of human influenza viral strains using Profile Hidden Markov Models. , 2011, , .		1
61	Genomic signatures and associative classification of the Hemagglutinin protein for Human versus Avian versus Swine influenza A viruses. , 2011, , .		5
62	Multi resolution bilateral filter for MR image denoising. , 2011, , .		16
63	Parallel Computation in Medical Imaging Applications. International Journal of Biomedical Imaging, 2011, 2011, 1-2.	3.0	2
64	Improving the prediction of yeast protein function using weighted protein-protein interactions. Theoretical Biology and Medical Modelling, 2011, 8, 11.	2.1	11
65	Construction of gene regulatory networks using biclustering and bayesian networks. Theoretical Biology and Medical Modelling, 2011, 8, 39.	2.1	18
66	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
67	FINITE ELEMENT MODELS FOR COMPUTER SIMULATION OF INTRASTROMAL PHOTOREFRACTIVE KERATECTOMY. Journal of Mechanics in Medicine and Biology, 2011, 11, 1255-1270.	0.3	6
68	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
69	Inferring visual system connectivity using dynamic causal modeling of functional magnetic resonance imaging data. Proceedings of SPIE, 2010, , .	0.8	1
70	Computer-aided diagnosis of digital mammography images using unsupervised clustering and biclustering techniques. , 2010, , .		6
71	Multi-component fiber track modelling of diffusion-weighted magnetic resonance imaging data. Journal of Advanced Research, 2010, 1, 39-51.	4.4	0
72	A three-dimensional finite element analysis of the osseointegration progression in the human mandible. Proceedings of SPIE, 2010, , .	0.8	2

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73	Optimizing kernel size in generalized auto-calibrating partially parallel acquisition in parallel magnetic resonance imaging. Proceedings of SPIE, 2010, , .	0.8	1
74	Electrocardiogram signals identification for cardiac arrhythmias using prony's method and neural network. , 2009, 2009, 1893-6.		6
75	PC-based modular digital ultrasound imaging system. , 2009, , .		4
76	GPU-based reconstruction and display for 4D ultrasound data. , 2009, , .		11
77	Computer aided diagnosis in digital mammography using combined support vector machine and linear discriminant analysis classification. , 2009, , .		7
78	An automatic gene ontology software tool for bicluster and cluster comparisons. , 2009, , .		1
79	Development of a computer-aided classification system for cancer detection from digital mammograms. , 2008, , .		10
80	Microcalcifications Enhancement in Digital Mammograms using Fractal Modeling. , 2008, , .		5
81	Study of Nerve Fiber Tracking Methodologies using Diffusion Tensor Magnetic Resonance Imaging. , 2008, , .		0
82	Objective Analysis Of Ultrasound Images By Use Of A Computational Observer. , 2008, , .		1
83	Motion artifact suppression in MRI using k-Space overlap processing. , 2008, , .		1
84	Novel Computational Apoptosis-Neurogenesis Model for Multi-Abstraction Level Perception. , 2008, , .		1
85	Modeling Intrastromal Photorefractive Keratectomy Procedures. , 2008, , .		0
86	Computer-Aided Diagnostic System based on Wavelet Analysis for Microcalcification Detection in Digital Mammograms. , 2008, , .		10
87	Digital Color Doppler Signal Processing. , 2008, , .		1
88	A New Method for Data Acquisition and Image Reconstruction in Parallel Magnetic Resonance Imaging. , 2008, , .		12
89	Rapid cardiac MRI using random radial trajectories. , 2008, , .		1
90	Machine Learning Methodologies in Brain-Computer Interface Systems. , 2008, , .		17

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91	Study of the sources of errors in fiber tracking using diffusion tensor MRI. , 2008, , .		0
92	Enhanced PIELG: A Protein Interaction Extraction System using a Link Grammar Parser from biomedical abstracts. , 2008, , .		1
93	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
94	Two clustering techniques of myocardium using C-SENC images: A comparison with multi-stage clustering. , 2007, , .		0
95	Fast phase aberration correction in ultrasound imaging using fat layer model. , 2007, , .		1
96	Extraction of protein interaction information from unstructured text using a link grammar parser. , 2007, , .		5
97	Computer aided diagnosis of digital mammograms. , 2007, , .		8
98	Entropy Based Phase Aberration Correction Technique in Ultrasound Imaging. , 2007, , .		2
99	Novel Multi-Tensor Estimation for High-Resolution Diffusion Tensor Magnetic Resonance Imaging. , 2006, , .		1
100	Ultrafast Phase Aberration Correction in Ultrasound Imaging Using a Simple Model for Fat Layer. , 2006, , .		1
101	Calculations of Heating Patterns of Interstitial Antenna for Brain Tumors Hyperthermia Treatment Planning. , 2006, , .		1
102	Optimal Radiofrequency Pulse Design for Magnetic Resonance Imaging Using Genetic Algorithms. , 2006, , .		0
103	Deconvolution-interpolation gridding (DING): Accurate reconstruction for arbitrary-k-space trajectories. Magnetic Resonance in Medicine, 2006, 56, 1182-1191.	1.9	15
104	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
105	Dipole Antenna for Interstitial Microwave Heating in a Dissipative medium: A Design Prospective. , 2006, , .		0
106	Robust multi-component modeling of diffusion tensor magnetic resonance imaging data. , 2005, , .		2
107	Navigator Echo Motion Artifact Suppression in Synthetic Aperture Ultrasound Imaging. IEEE Transactions on Biomedical Engineering, 2005, 52, 127-131.	2.5	3
108	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

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109	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
110	Enhancing measured diffusion anisotropy in gray matter by eliminating CSF contamination with FLAIR. Magnetic Resonance in Medicine, 2004, 51, 423-427.	1.9	31
111	Floating navigator echo (FNAV) for in-plane 2D translational motion estimation. Magnetic Resonance in Medicine, 2004, 51, 403-407.	1.9	21
112	Detecting nonlinear dynamics of functional connectivity. , 2004, , .		5
113	Robust ICA analysis for model-free functional connectivity detection. , 2004, , .		0
114	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
115	Robust ordering of independent components in functional magnetic resonance imaging time series data using canonical correlation analysis. , 2003, , .		4
116	Nonparametric clutter rejection in Doppler ultrasound using principal component analysis. , 2003, 5035, 258.		2
117	Successive optimization for fast-phase aberration correction. , 2003, 5035, 327.		1
118	Nonparametric suppression of random and physiological noise components in functional magnetic resonance imaging using cross-correlation spectrum subtraction. , 2003, , .		1
119	Combined intra- and inter-slice motion artifact suppression in magnetic resonance imaging. , 2003, , .		4
120	Computer-assisted radiographic characterization of alloimplant materials used as bone substitutes in dentistry. , 2003, , .		0
121	Encoded multiple simultaneous aperture acquisition for improved signal-to-noise ratio in ultrasound imaging. , 2003, , .		0
122	Reconstruction using optimal spatially variant kernel for B-mode ultrasound imaging. , 2003, 5035, 147.		4
123	Determination of the optical properties of layered tissues based on detecting the photons migrated within each layer: application to two-layer model. , 2003, , .		0
124	Improved cardiac wall motion tracking based on harmonic phase technique. , 2002, , .		0
125	Robust analysis of event-related functional magnetic resonance imaging data using independent component analysis. , 2002, , .		1
126	<title>Spatio-temporal analysis of color Doppler information using independent component analysis</title>. , 2002, , .		3



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127	Image reconstruction using shift-variant resampling kernel for magnetic resonance imaging. , 2002, 4684, 825.		2
128	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
129	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
130	A new real-time retinal tracking system for image-guided laser treatment. IEEE Transactions on Biomedical Engineering, 2002, 49, 1059-1067.	2.5	23
131	Characterisation of electrocardiogram signals based on blind source separation. Medical and Biological Engineering and Computing, 2002, 40, 557-564.	1.6	50
132	New solution to the gridding problem. , 2002, , .		6
133	<title>Pseudobased coherent diffusion for robust real-time ultrasound speckle reduction</title>. , 2001, 4322, 776.		1
134	<title>Real-time retinal tracking for laser treatment planning and administration</title>. , 2001, , .		3
135	<title>Content-based image retrieval strategies for medical image libraries</title>. , 2001, 4322, 1046.		2
136	<title>Integration of content-based image retrieval system with PACS</title>. , 2001, 4323, 325.		1
137	<title>Improved ultrasound speckle motion tracking using nonlinear diffusion filtering</title>. , 2001, , .		0
138	<title>Navigator echo-based in-slice motion artifact suppression in ultrasound images based on synthetic aperture</title>. , 2001, 4325, 445.		1
139	<title>Dynamic imaging reconstruction using linear associative memories</title>. , 2000, 3979, 1247.		0
140	Algebraic reconstruction for magnetic resonance imaging under $B_0$ inhomogeneity. IEEE Transactions on Medical Imaging, 1998, 17, 362-370.	5.4	48
141	Pseudo-Fourier imaging (PFI): a technique for spatial encoding in MRI. IEEE Transactions on Medical Imaging, 1997, 16, 893-902.	5.4	8
142	Simulated phase evolution rewinding (SPHERE): A technique for reducing $B_0$ inhomogeneity effects in MR images. Magnetic Resonance in Medicine, 1997, 38, 615-627.	1.9	72
143	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
144	Efficient design of ultrasound true-velocity flow mapping. IEEE Engineering in Medicine and Biology Magazine, 1996, 15, 118-125.	1.1	1

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145	<title>Automatic tissue characterization from ultrasound imagery</title>., 1993, , .		4