

Muthu R K Mookiah

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,983
citations

136950

32
h-index

168389

53
g-index

67
all docs

67
docs citations

67
times ranked

2992
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer-aided diagnosis of diabetic retinopathy: A review. Computers in Biology and Medicine, 2013, 43, 2136-2155.	7.0	344
2	Data mining technique for automated diagnosis of glaucoma using higher order spectra and wavelet energy features. Knowledge-Based Systems, 2012, 33, 73-82.	7.1	197
3	Atherosclerotic Risk Stratification Strategy for Carotid Arteries Using Texture-Based Features. Ultrasound in Medicine and Biology, 2012, 38, 899-915.	1.5	168
4	Evolutionary algorithm based classifier parameter tuning for automatic diabetic retinopathy grading: A hybrid feature extraction approach. Knowledge-Based Systems, 2013, 39, 9-22.	7.1	140
5	Non-invasive automated 3D thyroid lesion classification in ultrasound: A class of ThyroScan [®] systems. Ultrasonics, 2012, 52, 508-520.	3.9	117
6	AUTOMATED DIAGNOSIS OF EPILEPSY USING CWT, HOS AND TEXTURE PARAMETERS. International Journal of Neural Systems, 2013, 23, 1350009.	5.2	113
7	Application of higher-order spectra for the characterization of Coronary artery disease using electrocardiogram signals. Biomedical Signal Processing and Control, 2017, 31, 31-43.	5.7	109
8	Atherosclerotic plaque tissue characterization in 2D ultrasound longitudinal carotid scans for automated classification: a paradigm for stroke risk assessment. Medical and Biological Engineering and Computing, 2013, 51, 513-523.	2.8	94
9	Advances in Quantitative Muscle Ultrasonography Using Texture Analysis of Ultrasound Images. Ultrasound in Medicine and Biology, 2015, 41, 2520-2532.	1.5	83
10	Automated oral cancer identification using histopathological images: A hybrid feature extraction paradigm. Micron, 2012, 43, 352-364.	2.2	78
11	Automated classification of patients with coronary artery disease using grayscale features from left ventricle echocardiographic images. Computer Methods and Programs in Biomedicine, 2013, 112, 624-632.	4.7	76
12	Application of wavelet techniques for cancer diagnosis using ultrasound images: A Review. Computers in Biology and Medicine, 2016, 69, 97-111.	7.0	68
13	Automated diabetic macular edema (DME) grading system using DWT, DCT Features and maculopathy index. Computers in Biology and Medicine, 2017, 84, 59-68.	7.0	64
14	Automated diagnosis of Age-related Macular Degeneration using greyscale features from digital fundus images. Computers in Biology and Medicine, 2014, 53, 55-64.	7.0	57
15	Statistical analysis of mammographic features and its classification using support vector machine. Expert Systems With Applications, 2010, 37, 470-478.	7.6	56
16	Computer-Aided Diagnostic System for Detection of Hashimoto Thyroiditis on Ultrasound Images From a Polish Population. Journal of Ultrasound in Medicine, 2014, 33, 245-253.	1.7	50
17	Automated screening system for retinal health using bi-dimensional empirical mode decomposition and integrated index. Computers in Biology and Medicine, 2016, 75, 54-62.	7.0	50
18	Novel risk index for the identification of age-related macular degeneration using radon transform and DWT features. Computers in Biology and Medicine, 2016, 73, 131-140.	7.0	49

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19	Automated Screening of Arrhythmia Using Wavelet Based Machine Learning Techniques. Journal of Medical Systems, 2012, 36, 677-688.	3.6	48
20	AUTOMATED GLAUCOMA DETECTION USING HYBRID FEATURE EXTRACTION IN RETINAL FUNDUS IMAGES. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350011.	0.7	47
21	Local configuration pattern features for age-related macular degeneration characterization and classification. Computers in Biology and Medicine, 2015, 63, 208-218.	7.0	45
22	An integrated index for identification of fatty liver disease using radon transform and discrete cosine transform features in ultrasound images. Information Fusion, 2016, 31, 43-53.	19.1	44
23	Automated classification of cells in sub-epithelial connective tissue of oral sub-mucous fibrosis An SVM based approach. Computers in Biology and Medicine, 2009, 39, 1096-1104.	7.0	43
24	Plaque Tissue Characterization and Classification in Ultrasound Carotid Scans: A Paradigm for Vascular Feature Amalgamation. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 392-400.	4.7	42
25	Decision support system for age-related macular degeneration using discrete wavelet transform. Medical and Biological Engineering and Computing, 2014, 52, 781-796.	2.8	42
26	Diagnosis of Hashimoto's thyroiditis in ultrasound using tissue characterization and pixel classification. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 788-798.	1.8	40
27	Hybrid segmentation, characterization and classification of basal cell nuclei from histopathological images of normal oral mucosa and oral submucous fibrosis. Expert Systems With Applications, 2012, 39, 1062-1077.	7.6	39
28	Data mining technique for breast cancer detection in thermograms using hybrid feature extraction strategy. Quantitative InfraRed Thermography Journal, 2012, 9, 151-165.	4.2	38
29	Statistical Analysis of Textural Features for Improved Classification of Oral Histopathological Images. Journal of Medical Systems, 2012, 36, 865-881.	3.6	38
30	Application of different imaging modalities for diagnosis of Diabetic Macular Edema: A review. Computers in Biology and Medicine, 2015, 66, 295-315.	7.0	38
31	Textural characterization of histopathological images for oral sub-mucous fibrosis detection. Tissue and Cell, 2011, 43, 318-330.	2.2	36
32	Evolutionary Algorithm-Based Classifier Parameter Tuning for Automatic Ovarian Cancer Tissue Characterization and Classification. Ultraschall in Der Medizin, 2014, 35, 237-245.	1.5	36
33	Ovarian Tumor Characterization using 3D Ultrasound. Technology in Cancer Research and Treatment, 2012, 11, 543-552.	1.9	34
34	Automated detection of optic disk in retinal fundus images using intuitionistic fuzzy histon segmentation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 37-49.	1.8	34
35	Automated detection of age-related macular degeneration using empirical mode decomposition. Knowledge-Based Systems, 2015, 89, 654-668.	7.1	32
36	Computed tomography carotid wall plaque characterization using a combination of discrete wavelet transform and texture features: A pilot study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 643-654.	1.8	31

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37	Texture analysis of vertebral bone marrow using chemical shift encoding-based water-fat MRI: a feasibility study. <i>Osteoporosis International</i> , 2019, 30, 1265-1274.	3.1	30
38	Ensemble selection for feature-based classification of diabetic maculopathy images. <i>Computers in Biology and Medicine</i> , 2013, 43, 2156-2162.	7.0	29
39	Feasibility of opportunistic osteoporosis screening in routine contrast-enhanced multi detector computed tomography (MDCT) using texture analysis. <i>Osteoporosis International</i> , 2018, 29, 825-835.	3.1	27
40	Effect of AEE788 and/or Celecoxib on colon cancer cell morphology using advanced microscopic techniques. <i>Micron</i> , 2010, 41, 247-256.	2.2	25
41	Texture based segmentation of epithelial layer from oral histological images. <i>Micron</i> , 2011, 42, 632-641.	2.2	25
42	Automated Diagnosis of Oral Cancer Using Higher Order Spectra Features and Local Binary Pattern: A Comparative Study. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 443-455.	1.9	24
43	Application of higher-order spectra for automated grading of diabetic maculopathy. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 1319-1331.	2.8	24
44	Multidetector Computed Tomography Imaging. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 441-447.	0.9	24
45	Structural markers for normal oral mucosa and oral sub-mucous fibrosis. <i>Micron</i> , 2010, 41, 312-320.	2.2	19
46	Computer Aided Diagnosis of Diabetic Retinopathy Using Multi-Resolution Analysis and Feature Ranking Frame Work. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 598-606.	0.3	14
47	Image Analysis and Modeling in Ophthalmology. , 0, , .		13
48	Application of intuitionistic fuzzy histon segmentation for the automated detection of optic disc in digital fundus images. , 2012, , .		11
49	An Integrated Diabetic Retinopathy Index for the Diagnosis of Retinopathy Using Digital Fundus Image Features. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 306-313.	0.3	11
50	Computer Vision Approach to Morphometric Feature Analysis of Basal Cell Nuclei for Evaluating Malignant Potentiality of Oral Submucous Fibrosis. <i>Journal of Medical Systems</i> , 2012, 36, 1745-1756.	3.6	10
51	Effect of radiation dose reduction on texture measures of trabecular bone microstructure: an in vitro study. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 323-335.	2.7	9
52	Quantitative Analysis of Sub-Epithelial Connective Tissue Cell Population of Oral Submucous Fibrosis Using Support Vector Machine. <i>Journal of Medical Imaging and Health Informatics</i> , 2011, 1, 4-12.	0.3	7
53	Glaucoma Classification Using Brownian Motion and Discrete Wavelet Transform. <i>Journal of Medical Imaging and Health Informatics</i> , 2014, 4, 621-627.	0.3	7
54	On the quantitative effects of compression of retinal fundus images on morphometric vascular measurements in VAMPIRE. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105969.	4.7	7

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55	Automated characterization of sub-epithelial connective tissue cells of normal oral mucosa: Bayesian approach. , 2010, , .		6
56	AUTOMATED CHARACTERIZATION AND DETECTION OF DIABETIC RETINOPATHY USING TEXTURE MEASURES. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550045.	0.7	6
57	Towards Standardization of Retinal Vascular Measurements: On the Effect of Image Centering. Lecture Notes in Computer Science, 2018, , 294-302.	1.3	6
58	Detection of Diabetic Retinopathy Using <l>K</l>-Means Clustering and Self-Organizing Map. Journal of Medical Imaging and Health Informatics, 2013, 3, 575-581.	0.3	5
59	Automated Detection of Proliferative Diabetic Retinopathy Using Brownian Motion Features. Journal of Medical Imaging and Health Informatics, 2014, 4, 250-254.	0.3	5
60	Application of Multiresolution Analysis for the Detection of Glaucoma. Journal of Medical Imaging and Health Informatics, 2013, 3, 401-408.	0.3	4
61	Automated diagnosis of maculopathy stages using texture features. International Journal of Integrated Care, 2013, 13, .	0.2	4
62	Knowledge Based Segmentation, Quantitative Characterization and Classification of Basement Membrane from Oral Histopathological Images. Journal of Medical Imaging and Health Informatics, 2011, 1, 107-115.	0.3	3
63	AUTOMATED DIAGNOSIS OF CARDIAC HEALTH USING RECURRENCE QUANTIFICATION ANALYSIS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240014.	0.7	3
64	Carotid far wall characterization using LBP, Laws' Texture Energy and wall variability: A novel class of Atheromatic systems. , 2012, 2012, 448-51.		3
65	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Water"Fat MRI. Diagnostics, 2021, 11, 302.	2.6	2
66	Probabilistic Prediction of Cancer Using Nuclei Morphometry. , 2009, , .		0
67	Morphometric Pattern Analysis of Basal Cell Nuclei for Oral Cancer Screening. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0