

# Muthu R K Mookiah

## List of Publications by Year in descending order

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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	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Water-Fat MRI. <i>Diagnostics</i> , 2021, 11, 302.	2.6	2
2	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
3	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
4	Multidetector Computed Tomography Imaging. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 441-447.	0.9	24
5	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
6	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
7	Towards Standardization of Retinal Vascular Measurements: On the Effect of Image Centering. <i>Lecture Notes in Computer Science</i> , 2018, , 294-302.	1.3	6
8	Automated diabetic macular edema (DME) grading system using DWT, DCT Features and maculopathy index. <i>Computers in Biology and Medicine</i> , 2017, 84, 59-68.	7.0	64
9	Application of higher-order spectra for the characterization of Coronary artery disease using electrocardiogram signals. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 31-43.	5.7	109
10	Automated screening system for retinal health using bi-dimensional empirical mode decomposition and integrated index. <i>Computers in Biology and Medicine</i> , 2016, 75, 54-62.	7.0	50
11	Novel risk index for the identification of age-related macular degeneration using radon transform and DWT features. <i>Computers in Biology and Medicine</i> , 2016, 73, 131-140.	7.0	49
12	Application of wavelet techniques for cancer diagnosis using ultrasound images: A Review. <i>Computers in Biology and Medicine</i> , 2016, 69, 97-111.	7.0	68
13	An integrated index for identification of fatty liver disease using radon transform and discrete cosine transform features in ultrasound images. <i>Information Fusion</i> , 2016, 31, 43-53.	19.1	44
14	Advances in Quantitative Muscle Ultrasonography Using Texture Analysis of Ultrasound Images. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2520-2532.	1.5	83
15	Local configuration pattern features for age-related macular degeneration characterization and classification. <i>Computers in Biology and Medicine</i> , 2015, 63, 208-218.	7.0	45
16	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
17	AUTOMATED CHARACTERIZATION AND DETECTION OF DIABETIC RETINOPATHY USING TEXTURE MEASURES. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550045.	0.7	6
18	Application of different imaging modalities for diagnosis of Diabetic Macular Edema: A review. <i>Computers in Biology and Medicine</i> , 2015, 66, 295-315.	7.0	38

#	ARTICLE	IF	CITATIONS
19	Automated detection of age-related macular degeneration using empirical mode decomposition. Knowledge-Based Systems, 2015, 89, 654-668.	7.1	32
20	Automated Detection of Proliferative Diabetic Retinopathy Using Brownian Motion Features. Journal of Medical Imaging and Health Informatics, 2014, 4, 250-254.	0.3	5
21	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
22	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
23	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
24	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
25	Glaucoma Classification Using Brownian Motion and Discrete Wavelet Transform. Journal of Medical Imaging and Health Informatics, 2014, 4, 621-627.	0.3	7
26	AUTOMATED DIAGNOSIS OF EPILEPSY USING CWT, HOS AND TEXTURE PARAMETERS. International Journal of Neural Systems, 2013, 23, 1350009.	5.2	113
27	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
28	Computer-aided diagnosis of diabetic retinopathy: A review. Computers in Biology and Medicine, 2013, 43, 2136-2155.	7.0	344
29	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
30	Ensemble selection for feature-based classification of diabetic maculopathy images. Computers in Biology and Medicine, 2013, 43, 2156-2162.	7.0	29
31	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
32	Automated detection of optic disk in retinal fundus images using intuitionistic fuzzy histogram segmentation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 37-49.	1.8	34
33	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
34	An Integrated Diabetic Retinopathy Index for the Diagnosis of Retinopathy Using Digital Fundus Image Features. Journal of Medical Imaging and Health Informatics, 2013, 3, 306-313.	0.3	11
35	Detection of Diabetic Retinopathy Using &lt;math>K&lt;/math>-Means Clustering and Self-Organizing Map. Journal of Medical Imaging and Health Informatics, 2013, 3, 575-581.	0.3	5
36	Computer Aided Diagnosis of Diabetic Retinopathy Using Multi-Resolution Analysis and Feature Ranking Frame Work. Journal of Medical Imaging and Health Informatics, 2013, 3, 598-606.	0.3	14

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37	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
38	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
39	AUTOMATED GLAUCOMA DETECTION USING HYBRID FEATURE EXTRACTION IN RETINAL FUNDUS IMAGES. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350011.	0.7	47
40	Application of Multiresolution Analysis for the Detection of Glaucoma. Journal of Medical Imaging and Health Informatics, 2013, 3, 401-408.	0.3	4
41	Automated diagnosis of maculopathy stages using texture features. International Journal of Integrated Care, 2013, 13, .	0.2	4
42	Ovarian Tumor Characterization using 3D Ultrasound. Technology in Cancer Research and Treatment, 2012, 11, 543-552.	1.9	34
43	AUTOMATED DIAGNOSIS OF CARDIAC HEALTH USING RECURRENCE QUANTIFICATION ANALYSIS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240014.	0.7	3
44	Atherosclerotic Risk Stratification Strategy for Carotid Arteries Using Texture-Based Features. Ultrasound in Medicine and Biology, 2012, 38, 899-915.	1.5	168
45	Carotid far wall characterization using LBP, Laws' Texture Energy and wall variability: A novel class of Atheromatic systems. , 2012, 2012, 448-51.		3
46	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
47	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
48	Application of intuitionistic fuzzy histon segmentation for the automated detection of optic disc in digital fundus images. , 2012, , .		11
49	Automated Screening of Arrhythmia Using Wavelet Based Machine Learning Techniques. Journal of Medical Systems, 2012, 36, 677-688.	3.6	48
50	Statistical Analysis of Textural Features for Improved Classification of Oral Histopathological Images. Journal of Medical Systems, 2012, 36, 865-881.	3.6	38
51	Computer Vision Approach to Morphometric Feature Analysis of Basal Cell Nuclei for Evaluating Malignant Potentiality of Oral Submucous Fibrosis. Journal of Medical Systems, 2012, 36, 1745-1756.	3.6	10
52	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
53	Automated oral cancer identification using histopathological images: A hybrid feature extraction paradigm. Micron, 2012, 43, 352-364.	2.2	78
54	Non-invasive automated 3D thyroid lesion classification in ultrasound: A class of ThyroScan's systems. Ultrasonics, 2012, 52, 508-520.	3.9	117

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55	Textural characterization of histopathological images for oral sub-mucous fibrosis detection. Tissue and Cell, 2011, 43, 318-330.	2.2	36
56	Texture based segmentation of epithelial layer from oral histological images. Micron, 2011, 42, 632-641.	2.2	25
57	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
58	Automated Diagnosis of Oral Cancer Using Higher Order Spectra Features and Local Binary Pattern: A Comparative Study. Technology in Cancer Research and Treatment, 2011, 10, 443-455.	1.9	24
59	Quantitative Analysis of Sub-Epithelial Connective Tissue Cell Population of Oral Submucous Fibrosis Using Support Vector Machine. Journal of Medical Imaging and Health Informatics, 2011, 1, 4-12.	0.3	7
60	Statistical analysis of mammographic features and its classification using support vector machine. Expert Systems With Applications, 2010, 37, 470-478.	7.6	56
61	Structural markers for normal oral mucosa and oral sub-mucous fibrosis. Micron, 2010, 41, 312-320.	2.2	19
62	Effect of AEE788 and/or Celecoxib on colon cancer cell morphology using advanced microscopic techniques. Micron, 2010, 41, 247-256.	2.2	25
63	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
64	Automated characterization of sub-epithelial connective tissue cells of normal oral mucosa: Bayesian approach. , 2010, , .		6
65	Probabilistic Prediction of Cancer Using Nuclei Morphometry. , 2009, , .		0
66	Automated classification of cells in sub-epithelial connective tissue of oral sub-mucous fibrosisâ€™An SVM based approach. Computers in Biology and Medicine, 2009, 39, 1096-1104.	7.0	43
67	Image Analysis and Modeling in Ophthalmology. , 0, , .		13