Kristen M Meiburger

List of Publications by Year
in descending order

71 papers	1,180 citations	331538 21 h-index	414303 32 g-index
77 all docs	77 docs citations	77 times ranked	1132 citing authors

#	Article	IF	Citations
1	Carotid Ultrasound Boundary Study (CUBS): Technical considerations on an open multi-center analysis of computerized measurement systems for intima-media thickness measurement on common carotid artery longitudinal B-mode ultrasound scans. Computers in Biology and Medicine, 2022, 144, 105333.	3.9	15
2	Integration of Deep Learning and Active Shape Models for More Accurate Prostate Segmentation in 3D MR Images. Journal of Imaging, 2022, 8, 133.	1.7	10
3	Physical and electrophysiological motor unit characteristics are revealed with simultaneous high-density electromyography and ultrafast ultrasound imaging. Scientific Reports, 2022, 12, .	1.6	20
4	Teledermoscopy in the Diagnosis of Melanocytic and Non-Melanocytic Skin Lesions: NurugoTM Derma Smartphone Microscope as a Possible New Tool in Daily Clinical Practice. Diagnostics, 2022, 12, 1371.	1.3	1
5	Changes in supramaximal M-wave amplitude at different regions of biceps brachii following eccentric exercise of the elbow flexors. European Journal of Applied Physiology, 2021, 121, 307-318.	1.2	1
6	The impact of pre- and post-image processing techniques on deep learning frameworks: A comprehensive review for digital pathology image analysis. Computers in Biology and Medicine, 2021, 128, 104129.	3.9	139
7	The Role in Teledermoscopy of an Inexpensive and Easy-to-Use Smartphone Device for the Classification of Three Types of Skin Lesions Using Convolutional Neural Networks. Diagnostics, 2021, 11, 451.	1.3	19
8	REAP: revealing drug tolerant persister cells in cancer using contrast enhanced optical coherence and photoacoustic tomography. JPhys Photonics, 2021, 3, 021001.	2.2	1
9	Carotid Ultrasound Boundary Study (CUBS): An Open Multicenter Analysis of Computerized Intima–Media Thickness Measurement Systems and Their Clinical Impact. Ultrasound in Medicine and Biology, 2021, 47, 2442-2455.	0.7	15
10	Deep learning segmentation of transverse musculoskeletal ultrasound images for neuromuscular disease assessment. Computers in Biology and Medicine, 2021, 135, 104623.	3.9	26
11	Cross-cultural adaptation and validation of the Victorian Institute of Sports Assessment for gluteal tendinopathy questionnaire in Italian and investigation of the association between tendinopathy-related disability and pain. European Journal of Physical and Rehabilitation Medicine, 2021, 56, 764-770.	1.1	2
12	Automatic Segmentation and Classification Methods Using Optical Coherence Tomography Angiography (OCTA): A Review and Handbook. Applied Sciences (Switzerland), 2021, 11, 9734.	1.3	6
13	Automatic segmentation of the optic nerve in transorbital ultrasound images using a deep learning approach. , 2021, , .		1
14	Automated detection of chronic kidney disease using higher-order features and elongated quinary patterns from B-mode ultrasound images. Neural Computing and Applications, 2020, 32, 11163-11172.	3.2	9
15	Automated detection of calcified plaque using higher-order spectra cumulant technique in computer tomography angiography images. International Journal of Imaging Systems and Technology, 2020, 30, 285-297.	2.7	3
16	Non-Invasive Analysis of Actinic Keratosis before and after Topical Treatment Using a Cold Stimulation and Near-Infrared Spectroscopy. Medicina (Lithuania), 2020, 56, 482.	0.8	1
17	Automatic segmentation of ultrasound images of gastrocnemius medialis with different echogenicity levels using convolutional neural networks. , 2020, 2020, 2113-2116.		4
18	Robustness Analysis of Texture Features with Different Beamforming Techniques. , 2020, , .		2

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19	Karpinski Score under Digital Investigation: A Fully Automated Segmentation Algorithm to Identify Vascular and Stromal Injury of Donors' Kidneys. Electronics (Switzerland), 2020, 9, 1644.	1.8	12
20	Automatic Optic Nerve Measurement: A New Tool to Standardize Optic Nerve Assessment in Ultrasound B-Mode Images. Ultrasound in Medicine and Biology, 2020, 46, 1533-1544.	0.7	12
21	Vascular Complexity Evaluation Using a Skeletonization Approach and 3D LED-Based Photoacoustic Images. Progress in Optical Science and Photonics, 2020, , 113-131.	0.3	0
22	Automatic Dynamic Range Estimation for Ultrasound Image Visualization and Processing. , 2020, , .		3
23	Multimodal T2w and DWI Prostate Gland Automated Registration. , 2019, 2019, 4427-4430.		1
24	Automated plaque classification using computed tomography angiography and Gabor transformations. Artificial Intelligence in Medicine, 2019, 100, 101724.	3.8	10
25	Automatic detection of ischemic stroke using higher order spectra features in brain MRI images. Cognitive Systems Research, 2019, 58, 134-142.	1.9	27
26	Automatic skin lesion area determination of basal cell carcinoma using optical coherence tomography angiography and a skeletonization approach: Preliminary results. Journal of Biophotonics, 2019, 12, e201900131.	1.1	22
27	A Novel Algorithm for Breast Lesion Detection Using Textons and Local Configuration Pattern Features With Ultrasound Imagery. IEEE Access, 2019, 7, 22829-22842.	2.6	16
28	Automated Techniques for Vessel Detection and Segmentation in Cardiovascular Images. Series in Bioengineering, 2019, , 141-161.	0.3	0
29	Automatic Extraction of Dermatological Parameters from Nevi Using an Inexpensive Smartphone Microscope: A Proof of Concept. , 2019, 2019, 399-402.		2
30	Non-invasive analysis of actinic keratosis using a cold stimulation and near-infrared spectroscopy. , 2019, 2019, 467-470.		2
31	Transverse Muscle Ultrasound Analysis (TRAMA): Robust and Accurate Segmentation of Muscle Cross-Sectional Area. Ultrasound in Medicine and Biology, 2019, 45, 672-683.	0.7	19
32	An efficient data mining framework for the characterization of symptomatic and asymptomatic carotid plaque using bidimensional empirical mode decomposition technique. Medical and Biological Engineering and Computing, 2018, 56, 1579-1593.	1.6	21
33	Coronary artery disease severity, its predictors, and the increasingly important role of noninvasive imaging. International Journal of Cardiology, 2018, 257, 312-313.	0.8	1
34	Comparative assessment of texture features for the identification of cancer in ultrasound images: a review. Biocybernetics and Biomedical Engineering, 2018, 38, 275-296.	3.3	37
35	Optimized multi-level elongated quinary patterns for the assessment of thyroid nodules in ultrasound images. Computers in Biology and Medicine, 2018, 95, 55-62.	3.9	38
36	Automated detection and classification of liver fibrosis stages using contourlet transform and nonlinear features. Computer Methods and Programs in Biomedicine, 2018, 166, 91-98.	2.6	19

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37	Quantitative Analysis of Patellar Tendon Abnormality in Asymptomatic Professional "Pallapugno" Players: A Texture-Based Ultrasound Approach. Applied Sciences (Switzerland), 2018, 8, 660.	1.3	11
38	Automated localization and segmentation techniques for B-mode ultrasound images: A review. Computers in Biology and Medicine, 2018, 92, 210-235.	3.9	90
39	Validation of the Carotid Intima-Media Thickness Variability (IMTV). PoliTO Springer Series, 2017, , 53-74.	0.3	0
40	Fully Automated Muscle Ultrasound Analysis (MUSA): Robust and Accurate Muscle Thickness Measurement. Ultrasound in Medicine and Biology, 2017, 43, 195-205.	0.7	37
41	P82 IMAGE-BASED CHARACTERIZATION OF PLAQUE LIPID CONCENTRATION CHANGES IN TIME AND THE ROLE OF STATIN THERAPY. Artery Research, 2017, 20, 76.	0.3	0
42	Non-invasive multimodal optical coherence and photoacoustic tomography for human skin imaging. Scientific Reports, 2017, 7, 17975.	1.6	51
43	Quantitative Assessment of Cancer Vascular Architecture by Skeletonization of 3D CEUS Images: Role of Liposomes and Microbubbles. PoliTO Springer Series, 2017, , 75-89.	0.3	0
44	Skeletonization Based Blood Vessel Quantification Algorithm for In Vivo Photoacoustic 3D Images. PoliTO Springer Series, 2017, , 91-106.	0.3	0
45	Automated IMT Carotid Artery Far Wall Segmentation Techniques. PoliTO Springer Series, 2017, , 27-51.	0.3	0
46	Validation of the Carotid Intima–Media Thickness Variability: Can Manual Segmentations Be Trusted as Ground Truth?. Ultrasound in Medicine and Biology, 2016, 42, 1598-1611.	0.7	5
47	ULTRASOUND B-MODE DESCRIPTORS AND THEIR ASSOCIATION TO AGE AND AUTOMATED IMT AND IMT VARIABILITY. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640007.	0.3	1
48	Skeletonization algorithm-based blood vessel quantification using in vivo 3D photoacoustic imaging. Physics in Medicine and Biology, 2016, 61, 7994-8009.	1.6	28
49	CAROTID WALL MEASUREMENT AND ASSESSMENT BASED ON PIXEL-BASED AND LOCAL TEXTURE DESCRIPTORS. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640006.	0.3	13
50	Empirical mode decomposition analysis of near-infrared spectroscopy muscular signals to assess the effect of physical activity in type 2 diabetic patients. Computers in Biology and Medicine, 2015, 59, 1-9.	3.9	13
51	Quantitative Assessment of Cancer Vascular Architecture by Skeletonization of High-Resolution 3-D Contrast-Enhanced Ultrasound Images: Role of Liposomes and Microbubbles. Technology in Cancer Research and Treatment, 2014, 13, 541-550.	0.8	12
52	Ankle–Brachial Index and Its Link to Automated Carotid Ultrasound Measurement of Intima–Media Thickness Variability in 500 Japanese Coronary Artery Disease Patients. Current Atherosclerosis Reports, 2014, 16, 393.	2.0	23
53	Automated Carotid IMT Measurement and Its Validation in Low Contrast Ultrasound Database of 885 Patient Indian Population Epidemiological Study: Results of AtheroEdge® Software. , 2014, , 209-219.		23
54	Carotid Artery Recognition System (CARS): A Comparison of Three Automated Paradigms for Ultrasound Images. , 2014, , 221-236.		0

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55	Inter- and intra-observer variability analysis of completely automated cIMT measurement software (AtheroEdge™) and its benchmarking against commercial ultrasound scanner and expert Readers. Computers in Biology and Medicine, 2013, 43, 1261-1272.	3.9	24
56	Association of automated carotid IMT measurement and HbA1c in Japanese patients with coronary artery disease. Diabetes Research and Clinical Practice, 2013, 100, 348-353.	1.1	28
57	Automated IMT estimation and BMI correlation using a low-quality carotid ultrasound image database from India. , 2013, 2013, 3343-6.		0
58	Carotid IMT variability (IMTV): Its design and validation in symptomatic vs. asymptomatic 142 Italian population. , 2012, 2012, 2668-71.		1
59	Fully Automated Dual-Snake Formulation for Carotid Intima-Media Thickness Measurement. Journal of Ultrasound in Medicine, 2012, 31, 1123-1136.	0.8	37
60	Constrained snake vs. conventional snake for carotid ultrasound automated IMT measurements on multi-center data sets. Ultrasonics, 2012, 52, 949-961.	2.1	38
61	Ultrasound IMT measurement on a multi-ethnic and multi-institutional database: Our review and experience using four fully automated and one semi-automated methods. Computer Methods and Programs in Biomedicine, 2012, 108, 946-960.	2.6	52
62	Distal wall delineation using automated Dual Snake paradigm: A multi-center and multi-ethnic carotid ultrasound evaluation. , 2012, 2012, 484-7.		1
63	Carotid IMT Variability (IMTV) and Its Validation in Symptomatic versus Asymptomatic Italian Population: Can This Be a Useful Index for Studying Symptomaticity?. Echocardiography, 2012, 29, 1111-1119.	0.3	27
64	Carotid artery recognition system: A comparison of three automated paradigms for ultrasound images. Medical Physics, 2011, 39, 378-391.	1.6	29
65	CARES 2.0: Completely Automated Robust Edge Snapper for CIMT Measurement in 300 Ultrasound Images—A Two Stage Paradigm. Journal of Medical Imaging and Health Informatics, 2011, 1, 150-163.	0.2	3
66	CAUDLES-EF: Carotid Automated Ultrasound Double Line Extraction System Using Edge Flow. Journal of Digital Imaging, 2011, 24, 1059-1077.	1.6	29
67	Completely automated robust edge snapper for carotid ultrasound IMT measurement on a multi-institutional database of 300 images. Medical and Biological Engineering and Computing, 2011, 49, 935-945.	1.6	35
68	Automated high-performance cIMT measurement techniques using patented AtheroEdge™: A screening and home monitoring system. , 2011, 2011, 6651-4.		5
69	CARES 3.0: A two stage system combining feature-based recognition and edge-based segmentation for CIMT measurement on a multi-institutional ultrasound database of 300 images. , 2011, 2011, 5149-52.		10
70	Carotid automated ultrasound double line extraction system (CADLES) via Edge-Flow. , 2011, 2011, 575-8.		3
71	Automated carotid artery intima layer regional segmentation. Physics in Medicine and Biology, 2011, 56, 4073-4090.	1.6	23