Benjamin Castaneda

List of Publications by Year
in descending order

101 papers	1,767 citations	331538 21 h-index	302012 39 g-index
103 all docs	103 docs citations	103 times ranked	1682 citing authors

#	Article	IF	Citations
1	Breast Ultrasound Volume Sweep Imaging: A New Horizon in Expanding Imaging Access for Breast Cancer Detection. Journal of Ultrasound in Medicine, 2023, 42, 817-832.	0.8	8
2	Diabetes Status is Associated With Plantar Soft Tissue Stiffness Measured Using Ultrasound Reverberant Shear Wave Elastography Approach. Journal of Diabetes Science and Technology, 2022, 16, 478-490.	1.3	14
3	Plantar Soft Tissue Characterization Using Reverberant Shear Wave Elastography: A Proof-of-Concept Study. Ultrasound in Medicine and Biology, 2022, 48, 35-46.	0.7	4
4	No sonographer, no radiologist: New system for automatic prenatal detection of fetal biometry, fetal presentation, and placental location. PLoS ONE, 2022, 17, e0262107.	1.1	14
5	Biological evaluation of a mechanical ventilator that operates by controlling an automated manual resuscitator. A descriptive study in swine. PLoS ONE, 2022, 17, e0264774.	1.1	6
6	Wound Size Imaging: Ready for Smart Assessment and Monitoring. Advances in Wound Care, 2021, 10, 641-661.	2.6	29
7	New Ultrasound Telediagnostic System for <scp>Low€Resource</scp> Areas. Journal of Ultrasound in Medicine, 2021, 40, 583-595.	0.8	24
8	Combined thermal and color 3D model for wound evaluation from handheld devices. , 2021, , .		2
9	Masi: A mechanical ventilator based on a manual resuscitator with telemedicine capabilities for patients with ARDS during the COVID-19 crisis. HardwareX, 2021, 9, e00187.	1.1	21
10	Testing telediagnostic obstetric ultrasound in Peru: a new horizon in expanding access to prenatal ultrasound. BMC Pregnancy and Childbirth, 2021, 21, 328.	0.9	28
11	Testing telediagnostic right upper quadrant abdominal ultrasound in Peru: A new horizon in expanding access to imaging in rural and underserved areas. PLoS ONE, 2021, 16, e0255919.	1.1	20
12	Multimodal and Multiview Wound Monitoring with Mobile Devices. Photonics, 2021, 8, 424.	0.9	2
13	Shear Wave Speed Estimation for Crawling Wave Sonoelastography Using the Short-Time Fourier Transform. , 2021, , .		1
14	Comparison of statistical models for the detection of uniform reverberant shear wave fields. , 2021, , .		0
15	Lung ultrasound volume sweep imaging for respiratory illness: a new horizon in expanding imaging access. BMJ Open Respiratory Research, 2021, 8, e000919.	1.2	13
16	Evaluation of the Standard Error of the Regression and Coefficient of Determination as goodness-of-fit parameters for Reverberant Shear Wave Elastography. , 2021, , .		0
17	Quality characteristics of the Masi Peruvian mechanical ventilator manufacturing process[*]. , 2021, 2021, 1557-1561.		0
18	Practical settings for shear wave speed estimation using the framework of Reverberant Shear Wave Elastography: A numerical simulation study. , 2021, 2021, 3877-3881.		2

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19	Performance of the Masi Peruvian ventilator at high altitude. , 2021, 2021, 5031-5034.		2
20	Clinical applications of elastographic methods to improve prostate cancer evaluation. , 2020, , 47-66.		0
21	Correction of Temperature Estimated from a Low-Cost Handheld Infrared Camera for Clinical Monitoring. Lecture Notes in Computer Science, 2020, , 108-116.	1.0	4
22	Follow-up of Cutaneous Leishmaniasis by Three-Dimensional Reconstruction Based on Photogrammetry: Proof of Concept. IFMBE Proceedings, 2020, , 412-420.	0.2	1
23	Bidimensional analysis of reverberant shear wave elastography with multiple aleatory mini-surface sources: simulation study. , 2020, , .		2
24	Automatic ultrasound assessment of placenta previa during the third trimester for rural areas. , 2020, , .		5
25	Experimental study to evaluate the generation of reverberant shear wave fields (R-SWF) in homogenous media. , 2020, , .		6
26	Feasibility of Reverberant Shear Wave Elastography for In Vivo Assessment of Skeletal Muscle Viscoelasticity. , 2020, , .		4
27	Real-Time Crawling Wave Sonoelastography for Human Muscle Characterization: Initial Results. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 563-571.	1.7	10
28	Implementation of a Web Platform to Present Real Time Dynamic Monitoring Data from Heritage Structures. RILEM Bookseries, 2019, , 2245-2253.	0.2	0
29	Environmental and Dynamic Remote Monitoring of Historical Adobe Buildings: The Case Study of the Andahuaylillas Church in Cusco, Peru. RILEM Bookseries, 2019, , 2216-2224.	0.2	1
30	Volumetric monitoring of cutaneous leishmaniasis ulcers: can camera be as accurate as laser scanner?. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 667-675.	1.3	3
31	Lung Ultrasound Volume Sweep Imaging for Pneumonia Detection in Rural Areas: Piloting Training in Rural Peru. Journal of Clinical Imaging Science, 2019, 9, 35.	0.4	29
32	Evaluation of Primitive Extraction Methods from Point Clouds of Cultural Heritage Buildings. RILEM Bookseries, 2019, , 2332-2341.	0.2	3
33	Shear Wave Speed Estimation Using Reverberant Shear Wave Fields: Implementation and Feasibility Studies. Ultrasound in Medicine and Biology, 2018, 44, 963-977.	0.7	38
34	Structural and geotechnical engineering assessment of Huaca de la Luna—A massive earthen Moche culture pyramid in Northern Peru. Journal of Cultural Heritage, 2018, 34, 83-94.	1.5	9
35	Volume Estimation of Skin Ulcers: Can Cameras Be as Accurate as Laser Scanners?. Lecture Notes in Computational Vision and Biomechanics, 2018, , 735-744.	0.5	1
36	In vivo Attenuation Coefficient Estimation in the Healthy Forearm and Thigh Human Dermis. , 2018, , .		2

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37	In vivo estimation of the Young's modulus in normal human dermis. , 2018, 2018, 3456-3459.		3
38	Automatic classification of pediatric pneumonia based on lung ultrasound pattern recognition. PLoS ONE, 2018, 13, e0206410.	1.1	68
39	Surface Acoustic Wave Propagation Using Crawling Waves Technique in High Frequency Ultrasound. Lecture Notes in Computational Vision and Biomechanics, 2018, , 769-776.	0.5	1
40	Multimodal Viewing Interface for Skin Ulcers (Leish-MUVI). Lecture Notes in Computational Vision and Biomechanics, 2018, , 777-784.	0.5	0
41	Breast elastography: Identification of benign and malignant cancer based on absolute elastic modulus measurement using vibro-elastography. , 2018, , .		2
42	Automatic lung ultrasound B-line recognition in pediatric populations for the detection of pneumonia. , 2018, , .		0
43	Reverberant shear wave fields and estimation of tissue properties. Physics in Medicine and Biology, 2017, 62, 1046-1061.	1.6	60
44	Breast Density Classification with Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 101-108.	1.0	5
45	Laboratory evaluation of a fully automatic modal identification algorithm using automatic hierarchical clustering approach. Procedia Engineering, 2017, 199, 882-887.	1.2	13
46	An Integrated Protocol for the Research and Monitoring of Cutaneous Leishmaniasis. IEEE Latin America Transactions, 2017, 15, 2164-2170.	1.2	2
47	New tele-diagnostic model using volume sweep imaging for rural areas. , 2017, 2017, 2622-2625.		12
48	Measurement of surface acoustic waves in high-frequency ultrasound: Preliminary results. , 2017, 2017, 3000-3003.		6
49	Shear wave estimation by using Shear Wave Holography with normal vibration: Preliminary results. , 2017, 2017, 3004-3007.		0
50	A comparative study between parallel and normal excitation for crawling wave sonoelastography. Proceedings of SPIE, 2017, , .	0.8	5
51	Regularized wavelength average velocity estimator for quantitative ultrasound elastography. , 2016, , .		3
52	Automatic detection of pneumonia analyzing ultrasound digital images. , 2016, , .		14
53	Filtering of the skin portion on lung ultrasound digital images to facilitate automatic diagnostics of pneumonia. , 2016, , .		3
54	Wavelength average velocity estimator for ultrasound elastography. , 2016, , .		0

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55	Automatic pneumonia detection based on ultrasound video analysis. , 2016, 2016, 4117-4120.		8
56	SonicCare: A new low-cost and portable device for medical tele-ultrasonography on underserved areas. IEEE Latin America Transactions, 2016, 14, 3151-3158.	1.2	5
57	Automated segmentation and classification of cell nuclei in immunohistochemical breast cancer images with estrogen receptor marker. , 2016, 2016, 2399-2402.		7
58	Comparative evaluation of aberration effects in crawling wave sonoelastography and comb-push ultrasound shear elastography. , 2016, , .		0
59	Temporal artifact minimization in sonoelastography through optimal selection of imaging parameters. Journal of the Acoustical Society of America, 2016, 140, 714-717.	0.5	3
60	A novel method for estimating the complete 3D shape of pottery with axial symmetry from single potsherds based on principal component analysis. Digital Applications in Archaeology and Cultural Heritage, 2016, 3, 42-54.	0.9	6
61	Shear Wave Speed Measurements Using Crawling Wave Sonoelastography and Single Tracking Location Shear Wave Elasticity Imaging for Tissue Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1351-1360.	1.7	29
62	A comparison of digital modelling techniques analyzing a section of Qhapaq Ã'an. , 2015, , .		1
63	Shear wave estimation using null space pursuit and AM-FM demodulation. , 2015, , .		0
64	An explorative childhood pneumonia analysis based on ultrasonic imaging texture features. , 2015, , .		2
65	Effects of aberration in crawling wave sonoelastography. , 2015, , .		1
66	Low-cost uncalibrated video-based tool for tridimensional reconstruction oriented to assessment of chronic wounds. Proceedings of SPIE, 2015, , .	0.8	2
67	Effects of data acquisition parameters on the quality of sonoelastographic imaging. , 2015, 2015, 3839-42.		0
68	Characterization of breast density in women from Lima, Peru. Proceedings of SPIE, 2015, , .	0.8	2
69	Methodology to study the three-dimensional spatial distribution of prostate cancer and their dependence on clinical parameters. Journal of Medical Imaging, 2015, 2, 037502.	0.8	7
70	A comparison between generalized coherence factor and short-LAG spatial coherence methods. , 2015, , .		4
71	Crawling Waves Speed Estimation Based on the Dominant Component Analysis Paradigm. Ultrasonic Imaging, 2015, 37, 341-355.	1.4	4
72	Morningness/eveningness chronotype, poor sleep quality, and daytime sleepiness in relation to common mental disorders among Peruvian college students. Psychology, Health and Medicine, 2015, 20, 345-352.	1.3	32

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73	3D solid model updating of complex ancient monumental structures based on local geometrical meshes. Digital Applications in Archaeology and Cultural Heritage, 2015, 2, 12-27.	0.9	15
74	Experimental assessment of an automatic breast density classification algorithm based on principal component analysis applied to histogram data. Proceedings of SPIE, 2015, , .	0.8	1
75	Automatic breast density classification using a convolutional neural network architecture search procedure. Proceedings of SPIE, 2015, , .	0.8	25
76	Shear Wave Speed Estimation from Crawling Wave Sonoelastography: A comparison between AM-FM Dominant Component Analysis and Phase Derivation Methods. , 2014, , .		4
77	Evaluation of classification strategies using quantitative ultrasound markers and a thyroid cancer rodent model. , 2014, , .		3
78	Accuracy of backscatter coefficient estimation in aberrating media using different phase aberration correction strategies - A simulation study. , 2014, , .		3
79	Eveningness Chronotype, Daytime Sleepiness, Caffeine Consumption, and Use of Other Stimulants Among Peruvian University Students. Journal of Caffeine Research, 2014, 4, 21-27.	1.0	46
80	A methodology for updating 3D solid models of complex monumental structures based on local point-based meshes. , 2013, , .		2
81	Analysis of the spatial distribution of prostate cancer obtained from histopathological images. , 2013, , .		2
82	Sleep quality, sleep patterns and consumption of energy drinks and other caffeinated beverages among Peruvian college students. Health, 2013, 05, 26-35.	0.1	39
83	Application of numerical methods to elasticity imaging. MCB Molecular and Cellular Biomechanics, 2013, 10, 43-65.	0.3	5
84	Design and construction of the phantom prostate for the treatment in conformational radiotherapy. IEEE Latin America Transactions, 2012, 10, 1452-1458.	1.2	0
85	A 3D assessment tool for accurate volume measurement for monitoring the evolution of cutaneous Leishmaniasis wounds. , 2012, 2012, 2025-8.		18
86	Imaging technologies applied to chronic wounds. , 2011, , .		8
87	Two-dimensional shear wave speed and crawling wave speed recoveries from in vitro prostate data. Journal of the Acoustical Society of America, 2011, 130, 585-598.	0.5	9
88	Development of an acquisition protocol and a segmentation algortihm for wounds of cutaneous Leishmaniasis in digital images. , 2010, , .		1
89	Prostate cancer detection using crawling wave sonoelastography. Proceedings of SPIE, 2009, , .	0.8	22
90	US Elastography of Breast and Prostate Lesions. Radiographics, 2009, 29, 2007-2016.	1.4	116

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91	Two-Dimensional Sonoelastographic Shear Velocity Imaging. Ultrasound in Medicine and Biology, 2008, 34, 276-288.	0.7	83
92	Quantitative Characterization of Viscoelastic Properties of Human Prostate Correlated with Histology. Ultrasound in Medicine and Biology, 2008, 34, 1033-1042.	0.7	188
93	Quantitative sonoelastography for the <i>in vivo</i> assessment of skeletal muscle viscoelasticity. Physics in Medicine and Biology, 2008, 53, 4063-4080.	1.6	147
94	An automated system for the analysis of peri-prosthetic osteolysis progression. Proceedings of SPIE, 2008, , .	0.8	0
95	Tissue elasticity properties as biomarkers for prostate cancer. Cancer Biomarkers, 2008, 4, 213-225.	0.8	245
96	Realâ€time sonoelastography of hepatic thermal lesions in a swine model. Medical Physics, 2008, 35, 4132-4141.	1.6	46
97	Measurement of thermally ablated lesions in sonoelastographic images using level set methods. , 2008, , .		4
98	Semi-automated segmentation of the prostate gland boundary in ultrasound images using a machine learning approach. Proceedings of SPIE, 2008, , .	0.8	11
99	Congruence of Imaging Estimators and Mechanical Measurements of Viscoelastic Properties of Soft Tissues. Ultrasound in Medicine and Biology, 2007, 33, 1617-1631.	0.7	100
100	Uso de Contornos DinÃ¡micos Discretos para la SegmentaciÃ³n de PrÃ³stata en ImÃ¡genes de Ultrasonido en Dos Dimensiones. IFMBE Proceedings, 2007, , 321-324.	0.2	0
101	Measurement of pelvic osteolytic lesions in follow-up studies after total hip arthroplasty. , 2006, , .		0