

Sonia H Contreras-Ortiz

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

409
citations

1477746

6
h-index

996533

15
g-index

43
all docs

43
docs citations

43
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasound image enhancement: A review. Biomedical Signal Processing and Control, 2012, 7, 419-428.	3.5	152
2	A machine learning model for emotion recognition from physiological signals. Biomedical Signal Processing and Control, 2020, 55, 101646.	3.5	123
3	Influence of Arduino on the Development of Advanced Microcontrollers Courses. Revista Iberoamericana De Tecnologías Del Aprendizaje, 2017, 12, 208-217.	0.7	26
4	Dimensional Analysis of Aortic Root Geometry During Diastole Using 3D Models Reconstructed from Clinical 64-Slice Computed Tomography Images. Cardiovascular Engineering and Technology, 2011, 2, 324-333.	0.7	18
5	Texture Analysis of Ultrasound Images for Pneumonia Detection in Pediatric Patients. , 2019, , .		10
6	Hexagonal filters for ultrasound images. Journal of Electronic Imaging, 2014, 23, 043022.	0.5	7
7	Acquisition and Analysis of Cognitive Evoked Potentials using an Emotiv Headset for ADHD Evaluation in Children. , 2019, , .		7
8	Vehicle speed estimation using audio features and neural networks. , 2016, , .		6
9	Three-dimensional multimodal medical imaging system based on freehand ultrasound and structured light. Optical Engineering, 2021, 60, .	0.5	6
10	Estimation of PQ distance dispersion for atrial fibrillation detection. Computer Methods and Programs in Biomedicine, 2021, 208, 106167.	2.6	4
11	Fetal ECG extraction using independent component analysis by Jade approach. , 2017, , .		4
12	A low-cost multi-modal medical imaging system with fringe projection profilometry and 3D freehand ultrasound. , 2020, , .		4
13	Enhancement of ultrasound images by displacement, averaging, and interlacing. Journal of Electronic Imaging, 2010, 19, 011014.	0.5	3
14	Design of an electrogoniometer based on accelerometers for the evaluation of sports gesture in weight lifting. , 2014, , .		3
15	A wearable system for biosignal monitoring in weightlifting. Sports Engineering, 2017, 20, 73-80.	0.5	3
16	Modified Spatio-Temporal Matched Filtering for Brain Responses Classification. IEEE Transactions on Human-Machine Systems, 2022, 52, 677-686.	2.5	3
17	Displacement estimation in ultrasound images using pseudo-phase. , 2009, , .		2
18	Super-resolution of ultrasound images by displacement, averaging, and interlacing. Proceedings of SPIE, 2009, , .	0.8	2

#	ARTICLE	IF	CITATIONS
19	Modeling the point spread function of paired angle multiplicative compounding in ultrasound. , 2009, , .		2
20	Design of an electronic system for monitoring muscle activity in weight-lifting. , 2014, , .		2
21	Design and Construction of a Wearable Wireless Electrogoniometer for Joint Angle Measurements in Sports. IFMBE Proceedings, 2017, , 389-392.	0.2	2
22	A low noise stenography method for medical images with QR encoding of patient information. Proceedings of SPIE, 2017, , .	0.8	2
23	A small vocabulary database of ultrasound image sequences of vocal tract dynamics. , 2019, , .		2
24	Application of Spatio-Temporal Filtering for Atrial Activity Waveforms Enhancement. , 2019, , .		2
25	Analysis and classification of lung tissue in ultrasound images for pneumonia detection. , 2020, , .		2
26	EEG feature selection for ADHD detection in children. , 2020, , .		2
27	Supercompound imaging with Weiner deconvolution. Proceedings of SPIE, 2009, , .	0.8	1
28	Hexagonal adaptive filtering on compound ultrasound images. , 2011, 2011, 4856-9.		1
29	Speckle reduction in echocardiography by temporal compounding and anisotropic diffusion filtering. , 2015, , .		1
30	Reduction of blooming artifacts in cardiac CT images by blind deconvolution and anisotropic diffusion filtering. , 2015, , .		1
31	On the compensation of uneven illumination in retinal images for restoration by means of blind deconvolution. , 2016, , .		1
32	Region growing segmentation of ultrasound images using gradients and local statistics. Proceedings of SPIE, 2017, , .	0.8	1
33	Analysis and Classification of Evoked Potentials in Response to Familiar and Unfamiliar Faces. , 2018, , .		1
34	Selection of a Stopping Criterion for Anisotropic Diffusion Filtering in Ultrasound Images. , 2019, , .		1
35	A Methodology for Driving Behavior Recognition in Simulated Scenarios Using Biosignals. Communications in Computer and Information Science, 2019, , 357-367.	0.4	1
36	Classification of Cognitive Evoked Potentials for ADHD Detection in Children using Recurrence Plots and CNNs. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
37	Evolution of Microcontroller's Course under the Influence of Arduino. , 0, , .		0
38	Analysis of sEMG signals using discrete wavelet transform for muscle fatigue detection. , 2017, , .		0
39	Instrumented Insole for Plantar Pressure Measurement in Sports. Communications in Computer and Information Science, 2018, , 252-259.	0.4	0
40	Emotion detection through biomedical signals: a pilot study. , 2018, , .		0
41	Spatio Temporal Filtering of Multi-lead ECG Signals for Atrial Arrhythmia Classification. , 2021, , .		0
42	Biomechanical Analysis of Common Postures during Mobile Phone Use. , 2020, , .		0
43	Automated Atrial Fibrillation Detection by ECG Signal Processing. A Review.. Critical Reviews in Biomedical Engineering, 2022, 49, 31-50.	0.5	0