Humberto Loaiza-Correa

List of Publications by Year
in descending order

		1163117	940533
44 papers	**315** citations	**8** h-index	**16** g-index
45 all docs	**45** docs citations	**45** times ranked	**292** citing authors

#	Article	IF	Citations
1	Definition of a new thermal contrast and pulse correction for defect quantification in pulsed thermography. Infrared Physics and Technology, 2008, 51, 160-167.	2.9	75
2	Defect characterization in infrared non-destructive testing with learning machines. NDT and E International, 2009, 42, 630-643.	3.7	31
3	Modified Differential Absolute Contrast using Thermal Quadrupoles for the Nondestructive Testing of Finite Thickness Specimens by Infrared Thermography. , 2006, , .		28
4	Thermal imaging dataset from composite material academic samples inspected by pulsed thermography. Data in Brief, 2020, 32, 106313.	1.0	18
5	Background Thermal Compensation by Filtering for Contrast Enhancement in Active Thermography. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	16
6	Different Types of Sounds and Their Relationship With the Electrocardiographic Signals and the Cardiovascular System â€" Review. Frontiers in Physiology, 2018, 9, 525.	2.8	15
7	Identifying facial gestures to emulate a mouse: navigation application on Facebook. IEEE Latin America Transactions, 2017, 15, 121-128.	1.6	14
8	Phase contrast using a differentiated absolute contrast method. Quantitative InfraRed Thermography Journal, 2006, 3, 219-230.	4.2	13
9	Dataset for recognition of snail trails and hot spot failures in monocrystalline Si solar panels. Data in Brief, 2019, 26, 104441.	1.0	12
10	New 3D Finite Difference Method for Thermal Contrast Enhancement in Slabs Pulsed Thermography Inspection. Journal of Nondestructive Evaluation, 2014, 33, 62.	2.4	8
11	Dataset of thermal and visible aerial images for multi-modal and multi-spectral image registration and fusion. Data in Brief, 2020, 29, 105326.	1.0	8
12	Detection of lies by facial thermal imagery analysis. Revista Facultad De IngenierÃa, 2017, 26, 47-59.	0.2	7
13	Online learning of contexts for detecting suspicious behaviors in surveillance videos. Image and Vision Computing, 2019, 89, 197-210.	4.5	6
14	Human-computer multimodal interface to internet navigation. Disability and Rehabilitation: Assistive Technology, 2021, 16, 807-820.	2.2	6
15	Optimized Gaussian model for non-uniform heating compensation in pulsed thermography. Applied Optics, 2020, 59, 4303.	1.8	6
16	Defect quantification with reference-free thermal contrast and artificial neural networks. , 2007, 6541, 242.		5
17	Expert committee classifier for hand motions recognition from EMG signals. Ingeniare, 2018, 26, 62-71.	0.3	4
18	Segmentation of Thermography Image of Solar Cells and Panels. Communications in Computer and Information Science, 2020, , 1-8.	0.5	4

#	Article	IF	Citations
19	IMPLEMENTACIÃ"N EN FPGA DE UN CLASIFICADOR DE MOVIMIENTOS DE LA MANO USANDO SEÃˈALES EMG. Redes De IngenierÃa, 2015, 6, 85.	0.0	4
20	New Advances in Multidimensional Processing for Thermal Image Quality Enhancement. Advances in Civil and Industrial Engineering Book Series, 0, , 202-248.	0.2	4
21	Aerial Thermographic Inspection of Photovoltaic Plants: Analysis and Selection of the Equipment. , 2017, , .		4
22	Judgement of valence of musical sounds by hand and by heart, a machine learning paradigm for reading the heart. Heliyon, 2021, 7, e07565.	3.2	3
23	Development of a biofeedback system using harmonic musical intervals to control heart rate variability with a generative adversarial network. Biomedical Signal Processing and Control, 2022, 71, 103095.	5.7	3
24	Filtrado 3D espacio-temporal iterativo para la atenuaciÃ³n de ruido en secuencias de imÃ¡genes tÃ©rmicas para END. Ingenium, 2012, 6, 27.	0.2	3
25	A real-time multispectral computer vision system for morpho-thermal analysis of footprint plantar. IEEE Latin America Transactions, 2015, 13, 2680-2686.	1.6	2
26	Interfaz cerebro-computador multimodal para procesos de neurorrehabilitaciÃ³n de miembros superiores en pacientes con lesiones de mÃ©dula espinal: una revisiÃ³n. Revista De Ingenieria Biomedica, 2018, 12, .	0.1	2
27	EvaluaciÃ³n del aporte de la covarianza de las seÃ±ales electroencefalogrÃ¡ficas a las interfaces cerebro-computador de imaginaciÃ³n motora para pacientes con lesiones de mÃ©dula espinal. Tecno LÃ³gicas, 2019, 22, 213-231.	0.3	2
28	Modelo discreto 3d para mejoramiento del contraste tÃ©rmico y estimaciÃ³n de profundidad de defectos en lÃ¡minas de CFRP.. Ingenieria Y Competitividad, 2014, 16, 143-153.	0.1	2
29	Locally Adapted Gain Control for Reliable Foreground Detection. Lecture Notes in Computer Science, 2015, , 812-823.	1.3	2
30	Background thermal compensation by filtering (BTCF) for infrared thermography evaluation. , 2014, , .		1
31	Can the application of certain music information retrieval methods contribute to the machine learning classification of electrocardiographic signals?. Heliyon, 2021, 7, e06257.	3.2	1
32	A model for differential estimation of 3D thermal propagation by finite difference. Sistemas Y TelemÃ¡tica, 2012, 10, 9.	0.1	1
33	SelecciÃ³n de personal mediante redes neuronales artificiales. Revista De MatemÃ¡tica: TeorÃa Y Aplicaciones, 2007, 14, 7-20.	0.1	1
34	Semiautomatic determination of morphological parameters of footprint plantar by digital image processing. Sistemas Y TelemÃ¡tica, 2013, 11, 9.	0.1	1
35	Images processing and flow measurement applied to the thermographic analysis of heat-losses in boilers' isolation. , 2007, , .		0
36	Classical and neural models for binocular stereoscopic reconstruction. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Identifying facial gestures to emulate a mouse: Control application in a web browser. , 2016, , .		0
38	Sistema de reconocimiento de voz para controlar la aplicaciÃ³n whatsapp orientado a personas con limitaciones motrices. Revista Lumen Gentium, 2021, 4, 101-115.	0.0	0
39	Dataset of microscope images of prefrontal cortex from wistar rat tissue after an induced stroke for image registration and stitching. Data in Brief, 2021, 36, 107066.	1.0	0
40	Interfaz humano-computador basada en gestos faciales y orientada a la aplicaciÃ³n WhatsApp para personas con limitaciÃ³n motriz de miembros superiores. Tecno LÃ³gicas, 2021, 24, e1722.	0.3	0
41	IMITACION DE GESTOS POR BRAZOS ROBOTICOS: UNA PROPUESTA PARA EVALUAR SU CALIDAD.. Dyna (Spain), 2010, 85, 413-420.	0.2	0
42	Algorithm For Early Threat Detection By Suspicious Behavior Representation. IEEE Latin America Transactions, 2020, 18, 825-832.	1.6	0
43	Spherical Non-Perceptual Color Space RTP: Identifying Computer Graphics. Computacion Y Sistemas, 2020, 24, .	0.3	0
44	IntroducciÃ³n a la ClasificaciÃ³n de NeuroseÃ±ales utilizando TÃ©cnicas ClÃ¡sicas y Modernas de Machine Learning en Google Colaboratory [Not available in English]. , 2021, , .		0