Pedro M C Vieira

List of Publications by Year
in descending order

63 papers	**764** citations	**13** h-index

687363

552781

26 g-index	

71 all docs	**71** docs citations	**71** times ranked	**975** citing authors

#	Article	IF	Citations
1	Quantified Explainability: Convolutional Neural Network Focus Assessment in Arrhythmia Detection. BioMedInformatics, 2022, 2, 124-138.	2.0	3
2	Bulk Density of Shrub Types and Tree Crowns to Use with Forest Inventories in the Iberian Peninsula. Forests, 2022, 13, 555.	2.1	4
3	Real-Time Integration of Segmentation Techniques for Reduction of False Positive Rates in Fire Plume Detection Systems during Forest Fires. Remote Sensing, 2022, 14, 2701.	4.0	6
4	Are lesion features reproducible between 18F-FDG PET/CT images when acquired on analog or digital PET/CT scanners?. European Radiology, 2021, 31, 3071-3079.	4.5	9
5	Towards the Development and Validation of a Smartphone-Based Pupillometer forÂNeuro-Ophthalmological Diseases Screening. Communications in Computer and Information Science, 2021, , 39-52.	0.5	1
6	Comparative Analysis of Short-range Wireless Technologies for m-Health: Newborn Monitoring Case Study. , 2021, , .		0
7	Continuous wave terahertz imaging for NDT: Fundamentals and experimental validation. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108904.	5.0	20
8	Atmospheric Trends of CO and CH4 from Extreme Wildfires in Portugal Using Sentinel-5P TROPOMI Level-2 Data. Fire, 2021, 4, 25.	2.8	23
9	Evaluation of Three Iterative Algorithms for Phase Modulation Regarding Their Application in Concentrating Light Inside Biological Tissues for Laser Induced Photothermal Therapy. Photonics, 2021, 8, 355.	2.0	1
10	A Deep Learning Based Object Identification System for Forest Fire Detection. Fire, 2021, 4, 75.	2.8	38
11	TomoSim: A Tomographic Simulator for Differential Optical Absorption Spectroscopy. Drones, 2021, 5, 3.	4.9	1
12	Development of a Gas Sensor for Eucalyptol Supervision: A Supporting Tool for Extreme Wildfire Management. , 2021, 5, .		0
13	Probing deep tissues with laser-induced thermotherapy using near-infrared light. Lasers in Medical Science, 2020, 35, 43-49.	2.1	3
14	Semi-automatic Tool to Identify Heterogeneity Zones in LGE-CMR and Incorporate the Result into a 3D Model of the Left Ventricle. Lecture Notes in Computer Science, 2020, , 238-246.	1.3	0
15	Left Ventricle Computational Model based on Patients Three-dimensional MRI. , 2020, , .		1
16	Development of a Smartphone-based Pupillometer for Neuro-ophthalmological Diseases Screening. , 2020, , .		3
17	Bee2Fire: A Deep Learning Powered Forest Fire Detection System. , 2020, , .		6
18	A Macro View Model of a Bilirubin Monitoring System for Newborns. , 2020, , .		0

#	Article	IF	Citations
19	Optical design of a variable angle irradiation system for skin cancer laser phototherapy. EPJ Web of Conferences, 2020, 238, 12010.	0.3	1
20	A New Compact Optical System Proposal and Image Quality Comparison Against Other Affordable Non-mydriatic Fundus Cameras. Communications in Computer and Information Science, 2019, , 26-48.	0.5	2
21	VisuaLeague: Player performance analysis using spatial-temporal data. Multimedia Tools and Applications, 2019, 78, 33069-33090.	3.9	17
22	Light Hazard Measurement on an Ophthalmic Instrument. , 2019, , .		1
23	Development and clinical application of Vertebral Metrics: using a stereo vision system to assess the spine. Medical and Biological Engineering and Computing, 2018, 56, 1435-1446.	2.8	3
24	Serious games for upper limb rehabilitation: a systematic review. Disability and Rehabilitation: Assistive Technology, 2018, 13, 95-100.	2.2	29
25	Analysing Player Performance with Animated Maps. , 2018, , .		7
26	Optical Design of a Compact Image Acquisition Device for Mobile Diabetic Retinopathy Screening. , 2018, , .		4
27	The influence of wearing a wallet in your sitting posture â€" A quantitative study using an intelligent chair. , 2017, , .		1
28	Animated maps for analysis of personal performance in games. , 2017, , .		2
29	Forest Fire Finder â€" DOAS application to long-range forest fire detection. Atmospheric Measurement Techniques, 2017, 10, 2299-2311.	3.1	13
30	Bioproduction of gold nanoparticles for photothermal therapy. Therapeutic Delivery, 2016, 7, 287-304.	2.2	34
31	Low Cost Inertial Measurement Unit for Motion Capture in Biomedical Applications. IFIP Advances in Information and Communication Technology, 2016, , 151-158.	0.7	2
32	Hybrid nanoparticles for photodynamic and targeted cancer therapy: Cytotoxicity studies. Toxicology Letters, 2015, 238, S204.	0.8	0
33	Optimization of sitting posture classification based on user identification. , 2015, , .		8
34	System for Posture Evaluation and Correction - Development of a Second Prototype for an Intelligent Chair. , 2015, , .		6
35	Sitting Posture Detection using Fuzzy Logic - Development of a Neuro-fuzzy Algorithm to Classify Postural Transitions in a Sitting Posture. , 2015, , .		6
36	Real-Time Fuzzy Monitoring of Sitting Posture: Development of a New Prototype and a New Posture Classification Algorithm to Detect Postural Transitions. Communications in Computer and Information Science, 2015, , 424-439.	0.5	1

#	Article	IF	Citations
37	Intelligent Chair Sensor. International Journal of System Dynamics Applications, 2014, 3, 65-80.	0.3	4
38	DNA damage induced by carbon ions (C^{3+}) beam accessed by independent component analysis of infrared spectra. International Journal of Radiation Biology, 2014, 90, 344-350.	1.8	4
39	New Application: Adaptation of Toys for Children with Multiple Disabilities. Procedia Technology, 2014, 17, 351-358.	1.1	4
40	Singular Spectrum Analysis of Pupillometry Data. Identification of the Sympathetic and Parasympathetic Activity. Procedia Technology, 2014, 17, 273-280.	1.1	3
41	Monte Carlo simulation of laser beams interaction with the human eye using Geant4. BioMedical Engineering OnLine, 2014, 13, 58.	2.7	9
42	Vertebral Metrics: Scapula Evaluation. Procedia Technology, 2014, 17, 256-264.	1.1	0
43	Wavefront shaping using a deformable mirror for focusing inside optical tissue phantoms. , 2014, , .		2
44	Intelligent Chair Sensor â€" Classification and Correction of Sitting Posture. IFMBE Proceedings, 2014, , 1489-1492.	0.3	10
45	Development of an optical simulator of the human eye. , 2013, , .		0
46	Optical simulation of laser beam phase-shaping focusing optimization in biological tissues. Proceedings of SPIE, 2013, , .	0.8	1
47	Intelligent Chair Sensor. Communications in Computer and Information Science, 2013, , 182-191.	0.5	8
48	Pupillometry: Development of Equipment for Studies of Autonomic Nervous System. International Federation for Information Processing, 2012, , 553-562.	0.4	4
49	Variability and Repeatability Tests of ARMD Assessment Using the AD3RI Tool. International Federation for Information Processing, 2012, , 583-590.	0.4	0
50	Wavelet analysis of the autonomic outflow of the pupil's variation in normal subjects, given stimuli. , 2011, , .		0
51	Golden glazes analysis by PIGE and PIXE techniques. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3060-3062.	1.4	2
52	Automated drusen detection in retinal images using analytical modelling algorithms. BioMedical Engineering OnLine, 2011, 10, 59.	2.7	54
53	The increase of sustainability in cylinder manufacturing. Clean Technologies and Environmental Policy, 2010, 12, 83-86.	4.1	2
54	Polymeric scaffolds for enhanced stability of melanin incorporated in liposomes. Journal of Colloid and Interface Science, 2010, 350, 268-274.	9.4	24

#	Article	IF	Citations
55	Development and Validation of Online Monitoring Techniques for Composite Overwrapped Pressure Vessels. , 2010, , .		1
56	Advances in Image Processing Techniques for Drusens Detection and Quantification in Fundus Images. IFIP Advances in Information and Communication Technology, 2010, , 299-307.	0.7	0
57	True colour imaging of the fundus using a scanning laser ophthalmoscope. Physiological Measurement, 2002, 23, 1-10.	2.1	185
58	Clinical Investigation of a True Color Scanning Laser Ophthalmoscope. JAMA Ophthalmology, 2001, 119, 819.	2.4	22
59	Tomographic reconstruction of the retina using a confocal scanning laser ophthalmoscope. Physiological Measurement, 1999, 20, 1-19.	2.1	111
60	Laser imaging of the retina. British Journal of Ophthalmology, 1999, 83, 1241-1245.	3.9	8
61	Quantifying changes in retinal circulation: the generation of parametric images from fluorescein angiograms. Physiological Measurement, 1998, 19, 165-180.	2.1	21
62	In vivo cell tracking by scanning laser ophthalmoscopy: quantification of leukocyte kinetics. Investigative Ophthalmology and Visual Science, 1998, 39, 1879-87.	3.3	25
63	<title>Digital image processing of fundus images using scanning laser ophthalmoscopic images</title>. , 1996, , .		0