Joo A M Santos

List of Publications by Citations

46 papers	417 citations	10 h-index	18 g-index
53 ext. papers	587 ext. citations	2.7 avg, IF	3.78 L-index

#	Paper	IF	Citations
46	Cross-Validation for Imbalanced Datasets: Avoiding Overoptimistic and Overfitting Approaches [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2018**, 13, 59-76	5.6	115
45	Using deep learning techniques in medical imaging: a systematic review of applications on CT and PET. *Artificial Intelligence Review*, **2020**, 53, 4093-4160	9.7	35
44	. *IEEE Access*, **2019**, 7, 11651-11667	3.5	22
43	The role of dipolar interactions in magnetic nanoparticles: Ferromagnetic resonance in discontinuous magnetic multilayers. *Journal of Applied Physics*, **2007**, 101, 103907	2.5	20
42	Peculiar magnetic and electrical properties near structural percolation in metal-insulator granular layers. *Journal of Applied Physics*, **2004**, 96, 3861-3864	2.5	18
41	Low-field magnetization study of CoFe□Al2O3 multilayers. *Journal of Magnetism and Magnetic Materials*, **2003**, 266, 57-61	2.8	13
40	An artificial neural networks approach for assessment treatment response in oncological patients using PET/CT images. *BMC Medical Imaging*, **2017**, 17, 13	2.9	12
39	Influence of Data Distribution in Missing Data Imputation. *Lecture Notes in Computer Science*, **2017**, 285-294	0.3	12
38	Image descriptors in radiology images: a systematic review. *Artificial Intelligence Review*, **2017**, 47, 531-559	9.7	11
37	Preliminary assessment of the dose to the interventional radiologist in fluoro-CT-guided procedures. *Radiation Protection Dosimetry*, **2011**, 144, 448-52	0.9	11
36	Syringe shape and positioning relative to efficiency volume inside dose calibrators and its role in nuclear medicine quality assurance programs. *Applied Radiation and Isotopes*, **2009**, 67, 1104-9	1.7	10
35	Evidence of surface anisotropy in magnetic nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2006**, 300, e331-e334	2.8	10
34	Bi-Rads Classification of Breast Cancer: A New Pre-Processing Pipeline for Deep Models Training **2018**,		10
33	Evaluation of Oversampling Data Balancing Techniques in the Context of Ordinal Classification **2018**,		10
32	How distance metrics influence missing data imputation with k-nearest neighbours. *Pattern Recognition Letters*, **2020**, 136, 111-119	4.7	8
31	Computer Vision in Esophageal Cancer: A Literature Review. *IEEE Access*, **2019**, 7, 103080-103094	3.5	8
30	Study of nuclear medicine practices in Portugal from an internal dosimetry perspective. *Radiation Protection Dosimetry*, **2012**, 149, 438-43	0.9	8

29	Structural imperfection, phase transitions, and the properties of magnetoresistive ceramic and films of La0.66Mn1.23V0.11(c)O2.842V0.16(a). *Low Temperature Physics*, **2004**, 30, 299-304	0.7	7
28	Time-dependent transport effects in CoFe/Al2O3 discontinuous multilayers. *Journal of Applied Physics*, **2000**, 87, 6328-6330	2.5	7
27	Optimization of skin dose using in-vivo MOSFET dose measurements in bolus/non-bolus fraction ratio: A VMAT and a 3DCRT study. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 63-70	2.3	7
26	The use of needle holders in CTF guided biopsies as a dose reduction tool. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 250-258	2.3	6
25	Characterization of geometric uncertainties of a dose calibrator during measurement of 90Y activity. *Journal of Nuclear Medicine Technology*, **2011**, 39, 125-30	1.1	5
24	Magnetic phase behavior for Gd-rich GdV. *Journal of Applied Physics*, **2003**, 93, 8349-8351	2.5	5
23	Innovative methodology for intercomparison of radionuclide calibrators using short half-life in situ prepared radioactive sources. *Medical Physics*, **2014**, 41, 072507	4.4	4
22	Single-acquisition method for simultaneous determination of extrinsic gamma-camera sensitivity and spatial resolution. *Applied Radiation and Isotopes*, **2008**, 66, 44-9	1.7	4
21	Gafchromic XR-QA2 film as a complementary dosimeter for hand-monitoring in CTF-guided biopsies. *Journal of Applied Clinical Medical Physics*, **2016**, 17, 316-327	2.3	4
20	An iterative oversampling approach for ordinal classification **2019**,		3
19	Dose to the interventional radiologist in CTF-guided procedures. *Radiation and Environmental Biophysics*, **2019**, 58, 373-384	2	3
18	CHARACTERIZATION OF AN ACTIVE DOSEMETER ACCORDING TO IEC 61526:2010. *Radiation Protection Dosimetry*, **2016**, 170, 127-31	0.9	3
17	Primo software as a tool for Monte Carlo simulations of intensity modulated radiotherapy: a feasibility study. *Radiation Oncology*, **2018**, 13, 91	4.2	3
16	Exploring the Effects of Data Distribution in Missing Data Imputation. *Lecture Notes in Computer Science*, **2018**, 251-263	0.9	3
15	Interpretability vs. Complexity: The Friction in Deep Neural Networks **2020**,		3
14	On the joint-effect of class imbalance and overlap: a critical review. *Artificial Intelligence Review*,1	9.7	3
13	Scintillating fiber optic dosimeters for breast and prostate brachytherapy **2017**,		2
12	The effect of megavoltage radiation on polymeric materials to be used in biomedical devices. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6779-84	1.3	2

11	Ethical issues related to professional exposure of pregnant women in the medical field: monitoring and limiting effective dose. *Radiation Protection Dosimetry*, **2011**, 144, 525-9	0.9	2
10	Classification of oesophagic early-stage cancers: deep learning versus traditional learning approaches **2020**,		1
9	Going Back to Basics on Volumetric Segmentation of the Lungs in CT: A Fully Image Processing Based Technique. *Lecture Notes in Computer Science*, **2019**, 322-334	0.9	1
8	Automatic Generation of Lymphoma Post-Treatment PETs using Conditional-GANs **2019**,		1
7	Characterization of Extrafocal Dose Influence on the Out-of-Field Dose Distribution by Monte Carlo Simulations and Dose Measurements. *Health Physics*, **2019**, 117, 489-503	2.3	1
6	Registration of CT with PET: A Comparison of Intensity-Based Approaches. *Lecture Notes in Computer Science*, **2018**, 134-149	0.9	1
5	Analysing the Footprint of Classifiers in Overlapped and Imbalanced Contexts. *Lecture Notes in Computer Science*, **2018**, 200-212	0.9	1
4	Monitoring Tumor Lung Irradiation With Megavoltage Patient-Scattered Radiation: A Full System Simulation Study. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2017**, 1, 452-459	4.2	0
3	Configuration of Volumetric Arc Radiotherapy Simulations Using PRIMO Software: A Feasibility Study. *IFMBE Proceedings*, **2019**, 499-503	0.2	
2	Assessing the Impact of Distance Functions on K-Nearest Neighbours Imputation of Biomedical Datasets. *Lecture Notes in Computer Science*, **2020**, 486-496	0.9	
1	The impact of heterogeneous distance functions on missing data imputation and classification performance. *Engineering Applications of Artificial Intelligence*, **2022**, 111, 104791	7.2	