Eduardo Costa da Silva

List of Publications by Year
in descending order

35 papers	226 citations	1307594 7 h-index	1058476 14 g-index
35 all docs	35 docs citations	35 times ranked	147 citing authors

#	Article	IF	Citations
1	Local Interpretable Model-Agnostic Explanations for Classification of Lymph Node Metastases. Sensors, 2019, 19, 2969.	3.8	84
2	High sensitivity giant magnetoimpedance (GMI) magnetic transducer: magnitude versus phase sensing. Measurement Science and Technology, 2011, 22, 035204.	2.6	26
3	Explainable Artificial Intelligence for Bias Detection in COVID CT-Scan Classifiers. Sensors, 2021, 21, 5657.	3.8	21
4	High sensitivity pressure transducer based on the phase characteristics of GMI magnetic sensors. Measurement Science and Technology, 2018, 29, 035106.	2.6	11
5	Magnetic field transducers based on the phase characteristics of GMI sensors and aimed at biomedical applications. IFMBE Proceedings, 2009, , 652-656.	0.3	9
6	Point matching: A new electronic method for homogenizing the phase characteristics of giant magnetoimpedance sensors. Review of Scientific Instruments, 2014, 85, 084708.	1.3	9
7	An enhanced electronic topology aimed at improving the phase sensitivity of GMI sensors. Measurement Science and Technology, 2014, 25, 115010.	2.6	9
8	Electronic approach for enhancing impedance phase sensitivity of GMI magnetic sensors. Electronics Letters, 2013, 49, 396-397.	1.0	7
9	Sharpening Local Interpretable Model-Agnostic Explanations forÂHistopathology: Improved Understandability and Reliability. Lecture Notes in Computer Science, 2021, , 540-549.	1.3	7
10	Biomedical comparison of magnetometers for non-ferromagnetic metallic foreign body detection. Journal of Physics: Conference Series, 2018, 1044, 012013.	0.4	5
11	Progress Toward a Hundredfold Enhancement in the Impedance Phase Sensitivity of GMI Magnetic Sensors aiming at Biomagnetic Measurements. IFMBE Proceedings, 2013, , 742-745.	0.3	4
12	Evolved explainable classifications for lymph node metastases. Neural Networks, 2022, 148, 1-12.	5.9	4
13	Modelagem da sensibilidade de amostras GMI por redes neurais. Controle and Automacao, 2012, 23, 636-648.	0.2	3
14	Electronic circuit for excitation of inductive loads with high currents. Electronics Letters, 2015, 51, 1808-1809.	1.0	3
15	Classification of mechanisms underlying cardiac arrhythmias by deep learning. Research on Biomedical Engineering, 2020, 36, 475-487.	2.2	3
16	An electronic approach to homogenize the impedance phase characteristics of heterogeneous GMI sensors. Acta IMEKO (2012), 2012, 1, 70.	0.7	3
17	Sensitivity improvement of GMI magnetic and pressure transducers for biomedical measurements. Revista Brasileira De Engenharia Biomedica, 2011, 27, 79-89.	0.3	3
18	Design, implementation and experimental characterisation of a high sensitivity GMI gradiometer with an interference compensation system. IET Science, Measurement and Technology, 2020, 14, 688-694.	1.6	3

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19	Transdutor de pressÃ£o, baseado nas caracterÃsticas de fase do efeito GMI, destinado a aplicaÃ§Ãµes biomÃ©dicas. Controle and Automacao, 2010, 21, 598-608.	0.2	2
20	Quality by Design approach in the development of a magnetic transducer for biomedical measurements: preliminary results on Design Space configuration. Journal of Physics: Conference Series, 2016, 772, 012016.	0.4	2
21	Design and evaluation of closed-loop GMI magnetometer for biomedical applications. Measurement: Sensors, 2021, 18, 100297.	1.7	2
22	Improving Transfer Learning Performance: An Application in the Classification of Remote Sensing Data. , 2019, , .		2
23	Neuro-genetic system for optimization of GMI samples sensitivity. Neural Networks, 2016, 75, 141-149.	5.9	1
24	Multi-parameter fuzzy design space for QbD approach applied in the development of biomedical devices. Journal of Physics: Conference Series, 2018, 1044, 012051.	0.4	1
25	A Parametric Study of Inductive SWIPT Systems Assisted by Metamaterial Using Virtual Magnetic TL-Based Channel Modeling. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 195-207.	0.7	1
26	Development of a fast and reliable system for the automatic characterization of Giant magnetoimpedance samples. Acta IMEKO (2012), 2013, 2, 21.	0.7	1
27	Automated Evaluation of Dynamic Performance of Impulse Voltage Measurement Systems. Journal of Physics: Conference Series, 2015, 575, 012011.	0.4	0
28	Application of genetic algorithms to the solution of the biomagnetic inverse problem, using data acquired by a 16-Channel SQUID system. , 2016, , .		0
29	Enhanced Neuro-Genetic model aimed at optimizing the sensitivity of GMI sensors, subjected to linearity and span constraints. , 2016, , .		0
30	Development of an automated system based on the concept of evolutionary hardware to determine the optimal operating point of GMI sensors. Journal of Physics: Conference Series, 2018, 1044, 012021.	0.4	0
31	Development of an Alternative Battery Charging for Remotely Piloted Aircraft Location System Based on Photovoltaic Cells. Journal of Physics: Conference Series, 2018, 1065, 202006.	0.4	0
32	High sensitivity GMI gradiometer with an active interference compensation system. , 2018, , .		0
33	Method based on computational intelligence techniques for localization of firearms projectiles inserted into the human body, by high sensitivity magnetic measurements. Journal of Physics: Conference Series, 2018, 1044, 012044.	0.4	0
34	AeroDesign Aircraft Wing Optimization Using Genetic Algorithm. , 2019, , .		0
35	Approximate Explanations for Classification of Histopathology Patches. Communications in Computer and Information Science, 2020, , 517-526.	0.5	0