Rafael Vieira de Sousa

List of Publications by Year
in descending order

19 papers	208 citations	1307594 7 h-index	1058476 14 g-index
19 all docs	19 docs citations	19 times ranked	207 citing authors

#	Article	IF	Citations
1	Development of an instrumented and automated flash sintering setup for enhanced process monitoring and parameter control. Journal of the European Ceramic Society, 2019, 39, 531-538.	5.7	46
2	Flash sintering scaling-up challenges: Influence of the sample size on the microstructure and onset temperature of the flash event. Scripta Materialia, 2020, 186, 1-5.	5.2	28
3	Predictive model based on artificial neural network for assessing beef cattle thermal stress using weather and physiological variables. Computers and Electronics in Agriculture, 2018, 144, 37-43.	7.7	24
4	Pain assessment in horses using automatic facial expression recognition through deep learning-based modeling. PLoS ONE, 2021, 16, e0258672.	2.5	23
5	Fractional PID controller in an active image stabilization system for mitigating vibration effects in agricultural tractors. Computers and Electronics in Agriculture, 2016, 131, 1-9.	7.7	21
6	Development and evaluation of a fuzzy logic classifier for assessing beef cattle thermal stress using weather and physiological variables. Computers and Electronics in Agriculture, 2016, 127, 176-183.	7.7	18
7	Thermal imaging combined with predictive machine learning based model for the development of thermal stress level classifiers. Livestock Science, 2020, 241, 104244.	1.6	15
8	A MEASUREMENT SYSTEM BASED ON LiDAR TECHNOLOGY TO CHARACTERIZE THE CANOPY OF SUGARCANE PLANTS. Engenharia Agricola, 2019, 39, 240-247.	0.7	7
9	Design of CAN-based distributed control systems with optimized configuration. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 420-426.	1.6	7
10	A Row Crop Following Behavior based on Primitive Fuzzy Behaviors for Navigation System of Agricultural Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 91-96.	0.4	5
11	Evaluation of machine learning based models to predict the bulk density in the flash sintering process. Materials Today Communications, 2021, 27, 102220.	1.9	3
12	Predictive Performance of Mobile Visâ€“NIR Spectroscopy for Mapping Key Fertility Attributes in Tropical Soils through Local Models Using PLS and ANN. Automation, 2022, 3, 116-131.	2.3	3
13	A methodology for composing and coordinating primitive fuzzy behaviors to guide mobile agricultural robots. , 2011, , .		2
14	Object oriented C++ library IsoAgLib study and implementation from the remote CAN-Based Distributed Control System. , 2011, , .		2
15	Application of systematic methods in the electromechanical design of an agricultural mobile robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 276-281.	0.4	2
16	ANALYSIS OF NITROGEN DEFICIENCY OF BEAN PLANT USING DIGITAL IMAGES. , 2019, , .		1
17	Deep learning-based model classifies thermal conditions in dairy cows using infrared thermography. Biosystems Engineering, 2022, 221, 154-163.	4.3	1
18	Welfare traits of Bos indicus cattle castrated immunologically and fed beta-adrenergic agonists. Animal Bioscience, 2021, 34, 1552-1558.	2.0	0

#	Article	IF	Citations
19	Programmable logic controller applied to operational functions in agricultural implement based on ISO 11783 standard. Brazilian Journal of Development, 2020, 6, 28511-28522.	0.1	0