Daniela De Venuto

List of Publications by Year
in descending order

75	633	840776	794594
papers	citations	11	19
		h-index	g-index

83	83	83	347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-Frequency Linearization of Reactive Cortical Responses for the Early Detection of Balance Losses. Journal of Sensors, 2019, 2019, 1-14.	1.1	42
2	FPGA-Based Embedded Cyber-Physical Platform to Assess Gait and Postural Stability in Parkinson's Disease. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1167-1179.	2.5	33
3	Designing a Cyber–Physical System for Fall Prevention by Cortico–Muscular Coupling Detection. IEEE Design and Test, 2016, 33, 66-76.	1.2	32
4	0.8µW 12-bit SAR ADC sensors interface for RFID applications. Microelectronics Journal, 2010, 41, 746-751.	2.0	29
5	Spatio-Temporal Optimization of Perishable Goods' Shelf Life by a Pro-Active WSN-Based Architecture. Sensors, 2018, 18, 2126.	3.8	29
6	Title is missing!. Journal of Electronic Testing: Theory and Applications (JETTA), 2001, 17, 243-253.	1.2	28
7	RFID transceiver for wireless powering brain implanted microelectrodes and backscattered neural data collection. Microelectronics Journal, 2014, 45, 1585-1594.	2.0	28
8	Remote Neuro-Cognitive Impairment Sensing based on P300 Spatio-Temporal Monitoring. IEEE Sensors Journal, 2016, , 1-1.	4.7	28
9	Digital Window Comparator DfT Scheme for Mixed-Signal ICs. Journal of Electronic Testing: Theory and Applications (JETTA), 2002, 18, 121-128.	1.2	27
10	Design of an integrated low-noise read-out system for DNA capacitive sensors. Microelectronics Journal, 2009, 40, 1358-1365.	2.0	27
11	Low power 12-bit SAR ADC for autonomous wireless sensors network interface. , 2009, , .		27
12	Ultra low-power 12-bit SAR ADC for RFID applications. , 2010, , .		25
13	Brain-computer interface using P300: a gaming approach for neurocognitive impairment diagnosis. , 2016, , .		24
14	A novel multi-working electrode potentiostat for electrochemical detection of metabolites. , 2010, , .		23
15	Multiplexing pH and temperature in a molecular biosensor. , 2010, , .		23
16	Dr. Frankensteins Dream Made Possible Implanted Electronic Devices. , 2013, , .		22
17	Gait analysis for fall prediction using EMG triggered movement related potentials. , 2015, , .		22
18	Real–time P300–based BCI in mechatronic control by using a multi–dimensional approach. IET Software, 2018, 12, 418-424.	2.1	12

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19	Low Power High-Resolution Smart Temperature Sensor for Autonomous Multi-Sensor System. IEEE Sensors Journal, 2012, 12, 3384-3391.	4.7	11
20	On-line shelf-life prediction in perishable goods chain through the integration of WSN technology with a 1st order kinetic model. , 2015, , .		11
21	A Single-Trial P300 Detector Based on Symbolized EEG and Autoencoded-(1D)CNN to Improve ITR Performance in BCIs. Sensors, 2021, 21, 3961.	3.8	11
22	â€œMedical Assistance in Contextual awarenessâ€•(AMICO): a project for a better cardiopathic patients quality of care. , 2019, , .		8
23	Wireless powering and data communication for neural implantable electrodes. , 2013, , .		7
24	EEG/EMG based Architecture for the Early Detection of Slip-induced Lack of Balance. , 2019, , .		7
25	RGB and 3D-Segmentation Data Combination for the Autonomous Object Manipulation in Personal Care Robotics. , 2021, , .		7
26	Fully Digital Optimized Testing and Calibration Technique for Sigma Delta ADC's. , 2007, , .		6
27	Multisensing Architecture for the Balance Losses During Gait via Physiologic Signals Recognition. IEEE Sensors Journal, 2020, 20, 13959-13968.	4.7	6
28	FD SOI Hall sensor electronics interfaces for energy measurement. Microelectronics Journal, 2006, 37, 1576-1583.	2.0	5
29	pH sensing with temperature compensation in a Molecular Biosensor for drugs detection. , 2011, , .		5
30	Automatic 3D Design for Efficiency Optimization of a Class E Power Amplifier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 201-205.	3.0	5
31	Local Binary Patterning Approach for Movement Related Potentials based Brain Computer Interface. , 2019, , .		5
32	Multisensing System for Parkinsonâ€™s Disease Stage Assessment Based on FPGA-Embedded Serial SVM Classifier. IEEE Design and Test, 2021, 38, 44-51.	1.2	5
33	Novel low-power 12-bit SAR ADC for RFID tags. , 2010, , .		4
34	Data communication and power system for wireless neural recording. , 2013, , .		4
35	High-Specificity Digital Architecture for Real-Time Recognition of Loss of Balance Inducing Fall. Sensors, 2020, 20, 769.	3.8	4
36	Smart Sensors HW/SW Interface based on Brain-actuated Personal Care Robot for Ambient Assisted Living. , 2020, , .		4

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37	Design and characterization of novel read-out systems for a capacitive DNA sensor. Microelectronics Journal, 2006, 37, 1610-1619.	2.0	3
38	Fully digital strategy for fast calibration and test of Î£Î" ADCs. Microelectronics Journal, 2007, 38, 474-481.	2.0	3
39	Low power smart sensor for accurate temperature measurements. , 2011, , .		3
40	Real-time muscle fiber conduction velocity tracker for diabetic neuropathy monitoring. , 2017, , .		3
41	Neuromuscular Disorders Assessment by FPGA-Based SVM Classification of Synchronized EEG/EMG. Lecture Notes in Electrical Engineering, 2019, , 37-44.	0.4	3
42	A Cybersecure P300-Based Brain-to-Computer Interface against Noise-Based and Fake P300 Cyberattacks. Sensors, 2021, 21, 8280.	3.8	3
43	Fault diagnosis and test of DNA sensor arrays by using IFA approach. Microelectronics Journal, 2009, 40, 1293-1299.	2.0	2
44	Guest Editorial Special Issue on Sensors and Interfaces for Mobile Healthcare. IEEE Sensors Journal, 2016, 16, 8185-8185.	4.7	2
45	Design of Digital Window Comparators and their Implementation within Mixed-Signal DfT Schemes. Analog Integrated Circuits and Signal Processing, 2003, 35, 157-168.	1.4	1
46	Testing high resolution Î£Î" ADC's by using the quantizer input as test access. Microelectronics Journal, 2005, 36, 810-819.	2.0	1
47	Design of an integrated low-noise read-out system for DNA capacitive sensors. , 2007, , .		1
48	Fully digital strategy for fast calibration and test of Î£Î" ADC's. Microelectronics Journal, 2007, 38, 140-147.	2.0	1
49	Special Section on the International Symposium for Quality Electronic Design 2008 (ISQED 2008). IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 1-2.	1.7	1
50	Impedance modeling of the intracortical microelectrode for a reliable design of a brain activity recording system. , 2014, , .		1
51	Wireless Brain-Computer Interface for Wheelchair Control by Using Fast Machine Learning and Real-Time Hyper-Dimensional Classification. Lecture Notes in Computer Science, 2018, , 61-74.	1.3	1
52	FPGA Implementation of a Single Step MFCV Estimator Based on EMG in Diabetic Neuropathy. Journal of Sensors, 2018, 2018, 1-10.	1.1	1
53	Foreword Embedded Sensor Systems. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1133-1134.	2.5	1
54	Field Programmable Gate Array-Embedded Platform for Dynamic Muscle Fiber Conduction Velocity Monitoring. Sensors, 2019, 19, 4594.	3.8	1

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55	Semi-Autonomous Personal Care Robots Interface driven by EEG Signals Digitization. , 2020, , .		1
56	Automatic Perishable Goods Shelf Life Optimization in No-Refrigerated Warehouses by Using a WSN-Based Architecture. Lecture Notes in Electrical Engineering, 2019, , 287-294.	0.4	1
57	Novel Synchronous Brain Computer Interface Based on 2-D EEG Local Binary Patterning. Advances in Intelligent Systems and Computing, 2020, , 192-210.	0.6	1
58	Low-Complexity Unidimensional CNN based Brain Speller for Embedded Platforms. , 2021, , .		1
59	Automatic Window Repositioning Technique for Digital Window Comparator Used Within Mixed-Signal Design-for Testability Schemes. Analog Integrated Circuits and Signal Processing, 2005, 42, 301-311.	1.4	0
60	Inductive Fault Analysis for Test and Diagnosis of DNA Sensor Arrays. , 2007, , .		0
61	Fast PWM-Based Test for High Resolution Î£Î” ADCs. Journal of Electronic Testing: Theory and Applications (JETTA), 2007, 23, 539-548.	1.2	0
62	PWM-based test stimuli generation for BIST of high resolution ΣΔ ADCs. , 2008, , .		0
63	High Resolution Read-Out Circuit for DNA Label-Free Detection System. , 2008, , .		0
64	ISQED 2010 fellow award recipient. , 2010, , .		0
65	High resolution read-out circuit for DNA label-free detection system. International Journal of Biomedical Engineering and Technology, 2010, 4, 211.	0.2	0
66	Special issue on the Third IEEE International Workshop on Advances in Sensors and Interfaces 2009 (IWASI 2009). Microelectronics Journal, 2010, 41, 695-696.	2.0	0
67	Guest Editorial Special Issue of IEEE Sensors on the 4th IEEE International Workshop on Advances in Sensors and Interfaces 2011 (IWASI 2011). IEEE Sensors Journal, 2012, 12, 3299-3300.	4.7	0
68	Low power sensor for temperature compensation in molecular biosensing. , 2013, , .		0
69	Design and characterization of a 65nm CMOS wireless RFID reader for ECoG tag. , 2017, , .		0
70	FPGA-Embedded Serial SVM Classifier for Neuromuscular Disorders Assessment. , 2018, , .		0
71	State space model-oriented design for efficiency improvement of Class E power amplifier. , 2018, , .		0
72	Digital Architecture for MUAPs Propagation Speed Estimator triggered by Foot Plant Switch. , 2020, , .		0

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73	Cortical Activity Digitization by Symbolization in Brain-Computer Interface Context. , 2020, , .		0
74	Brain-Actuated Pick-Up and Delivery Service for Personal Care Robots: Implementation and Case Study. Lecture Notes in Electrical Engineering, 2021, , 111-121.	0.4	0
75	Adding Object Manipulation Capabilities to Social Robots by using 3D and RGB Cameras Data. , 2021, , .		0