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	Multisensing System for Parkinson's Disease Stage Assessment Based on FPGA-Embedded Serial SVM Classifier. IEEE Design and Test, 2021, 38, 44-51.	1.2	5
2	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
3	RGB and 3D-Segmentation Data Combination for the Autonomous Object Manipulation in Personal Care Robotics. , 2021, , .		7
4	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
5	Adding Object Manipulation Capabilities to Social Robots by using 3D and RGB Cameras Data. , 2021, , .		0
6	Low-Complexity Unidimensional CNN based Brain Speller for Embedded Platforms. , 2021, , .		1
7	A Cybersecure P300-Based Brain-to-Computer Interface against Noise-Based and Fake P300 Cyberattacks. Sensors, 2021, 21, 8280.	3.8	3
8	Digital Architecture for MUAPs Propagation Speed Estimator triggered by Foot Plant Switch. , 2020, , .		0
9	Multisensing Architecture for the Balance Losses During Gait via Physiologic Signals Recognition. IEEE Sensors Journal, 2020, 20, 13959-13968.	4.7	6
10	Cortical Activity Digitization by Symbolization in Brain-Computer Interface Context. , 2020, , .		0
11	Semi-Autonomous Personal Care Robots Interface driven by EEG Signals Digitization. , 2020, , .		1
12	High-Specificity Digital Architecture for Real-Time Recognition of Loss of Balance Inducing Fall. Sensors, 2020, 20, 769.	3.8	4
13	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
14	Smart Sensors HW/SW Interface based on Brain-actuated Personal Care Robot for Ambient Assisted Living. , 2020, , .		4
15	"Medical Assistance in Contextual awareness"(AMICO): a project for a better cardiopathic patients quality of care. , 2019, , .		8
16	Neuromuscular Disorders Assessment by FPGA-Based SVM Classification of Synchronized EEG/EMG. Lecture Notes in Electrical Engineering, 2019, , 37-44.	0.4	3
17	Field Programmable Gate Array-Embedded Platform for Dynamic Muscle Fiber Conduction Velocity Monitoring. Sensors, 2019, 19, 4594.	3.8	1
18	Local Binary Patterning Approach for Movement Related Potentials based Brain Computer Interface. , 2019, , .		5

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19	EEG/EMG based Architecture for the Early Detection of Slip-induced Lack of Balance. , 2019, , .		7
20	Time-Frequency Linearization of Reactive Cortical Responses for the Early Detection of Balance Losses. Journal of Sensors, 2019, 2019, 1-14.	1.1	42
21	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
22	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
23	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
24	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
25	FPGA Implementation of a Single Step MFCV Estimator Based on EMG in Diabetic Neuropathy. Journal of Sensors, 2018, 2018, 1-10.	1.1	1
26	Real-time P300-based BCI in mechatronic control by using a multi-dimensional approach. IET Software, 2018, 12, 418-424.	2.1	12
27	Spatio-Temporal Optimization of Perishable Goods' Shelf Life by a Pro-Active WSN-Based Architecture. Sensors, 2018, 18, 2126.	3.8	29
28	FPGA-Embedded Serial SVM Classifier for Neuromuscular Disorders Assessment. , 2018, , .		0
29	State space model-oriented design for efficiency improvement of Class E power amplifier. , 2018, , .		0
30	Foreword Embedded Sensor Systems. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1133-1134.	2.5	1
31	Design and characterization of a 65nm CMOS wireless RFID reader for ECoG tag. , 2017, , .		0
32	Real-time muscle fiber conduction velocity tracker for diabetic neuropathy monitoring. , 2017, , .		3
33	Guest Editorial Special Issue on Sensors and Interfaces for Mobile Healthcare. IEEE Sensors Journal, 2016, 16, 8185-8185.	4.7	2
34	Remote Neuro-Cognitive Impairment Sensing based on P300 Spatio-Temporal Monitoring. IEEE Sensors Journal, 2016, , 1-1.	4.7	28
35	Brain-computer interface using P300: a gaming approach for neurocognitive impairment diagnosis. , 2016, , .		24
36	Designing a Cyber–Physical System for Fall Prevention by Cortico–Muscular Coupling Detection. IEEE Design and Test, 2016, 33, 66-76.	1.2	32

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37	Gait analysis for fall prediction using EMG triggered movement related potentials. , 2015, , .		22
38	On-line shelf-life prediction in perishable goods chain through the integration of WSN technology with a 1st order kinetic model. , 2015, , .		11
39	RFID transceiver for wireless powering brain implanted microelectrodes and backscattered neural data collection. Microelectronics Journal, 2014, 45, 1585-1594.	2.0	28
40	Impedance modeling of the intracortical microelectrode for a reliable design of a brain activity recording system. , 2014, , .		1
41	Wireless powering and data communication for neural implantable electrodes. , 2013, , .		7
42	Dr. Frankensteins Dream Made Possible Implanted Electronic Devices. , 2013, , .		22
43	Data communication and power system for wireless neural recording. , 2013, , .		4
44	Low power sensor for temperature compensation in molecular biosensing. , 2013, , .		0
45	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
46	Low Power High-Resolution Smart Temperature Sensor for Autonomous Multi-Sensor System. IEEE Sensors Journal, 2012, 12, 3384-3391.	4.7	11
47	pH sensing with temperature compensation in a Molecular Biosensor for drugs detection. , 2011, , .		5
48	Low power smart sensor for accurate temperature measurements. , 2011, , .		3
49	ISQED 2010 fellow award recipient. , 2010, , .		0
50	High resolution read-out circuit for DNA label-free detection system. International Journal of Biomedical Engineering and Technology, 2010, 4, 211.	0.2	0
51	0.8Î¼W 12-bit SAR ADC sensors interface for RFID applications. Microelectronics Journal, 2010, 41, 746-751.	2.0	29
52	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
53	A novel multi-working electrode potentiostat for electrochemical detection of metabolites. , 2010, , .		23
54	Ultra low-power 12-bit SAR ADC for RFID applications. , 2010, , .		25

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55	Novel low-power 12-bit SAR ADC for RFID tags. , 2010, , .		4
56	Multiplexing pH and temperature in a molecular biosensor. , 2010, , .		23
57	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
58	Fault diagnosis and test of DNA sensor arrays by using IFA approach. Microelectronics Journal, 2009, 40, 1293-1299.	2.0	2
59	Design of an integrated low-noise read-out system for DNA capacitive sensors. Microelectronics Journal, 2009, 40, 1358-1365.	2.0	27
60	Low power 12-bit SAR ADC for autonomous wireless sensors network interface. , 2009, , .		27
61	PWM-based test stimuli generation for BIST of high resolution ΣΔ ADCs. , 2008, , .		0
62	High Resolution Read-Out Circuit for DNA Label-Free Detection System. , 2008, , .		0
63	Inductive Fault Analysis for Test and Diagnosis of DNA Sensor Arrays. , 2007, , .		0
64	Fully Digital Optimized Testing and Calibration Technique for Sigma Delta ADC's. , 2007, , .		6
65	Design of an integrated low-noise read-out system for DNA capacitive sensors. , 2007, , .		1
66	Fully digital strategy for fast calibration and test of ΣΔ ADC's. Microelectronics Journal, 2007, 38, 140-147.	2.0	1
67	Fully digital strategy for fast calibration and test of ΣΔ ADCs. Microelectronics Journal, 2007, 38, 474-481.	2.0	3
68	Fast PWM-Based Test for High Resolution ΣΔ ADCs. Journal of Electronic Testing: Theory and Applications (JETTA), 2007, 23, 539-548.	1.2	0
69	FD SOI Hall sensor electronics interfaces for energy measurement. Microelectronics Journal, 2006, 37, 1576-1583.	2.0	5
70	Design and characterization of novel read-out systems for a capacitive DNA sensor. Microelectronics Journal, 2006, 37, 1610-1619.	2.0	3
71	Testing high resolution ΣΔ ADC's by using the quantizer input as test access. Microelectronics Journal, 2005, 36, 810-819.	2.0	1
72	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

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73	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
74	Digital Window Comparator DfT Scheme for Mixed-Signal ICs. Journal of Electronic Testing: Theory and Applications (JETTA), 2002, 18, 121-128.	1.2	27
75	Title is missing!. Journal of Electronic Testing: Theory and Applications (JETTA), 2001, 17, 243-253.	1.2	28