

Diego Cabello

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

696
citations

14
h-index

24
g-index

97
ext. papers

831
ext. citations

3.7
avg, IF

3.32
L-index

#	Paper	IF	Citations
73	An 11 mA Capacitor-Less LDO with 3.08 nA Quiescent Current and SSF-Based Adaptive Biasing. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	0
72	On-Chip Solar Energy Harvester and PMU With Cold Start-Up and Regulated Output Voltage for Biomedical Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 1103-1114	3.9	7
71	Ultralow power voltage reference circuit for implantable devices in standard CMOS technology. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 991-1005	2	1
70	Corrections to Wireless Sensor Network With Perpetual Motes for Terrestrial Snail Activity Monitoring. <i>IEEE Sensors Journal</i> , 2019 , 19, 6553-6553	4	
69	Micro-Energy Harvesting System Including a PMU and a Solar Cell on the Same Substrate With Cold Startup From 2.38 nW and Input Power Range up to 10 μ W Using Continuous MPPT. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5105-5116	7.2	14
68	In-pixel analog memories for a pixel-based background subtraction algorithm on CMOS vision sensors. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 1631	2	2
67	Pulsed time-of-flight pixel with on-chip 20 μ lux background light suppression in standard CMOS technology. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 987-1005	2	
66	Wireless Sensor Network With Perpetual Motes for Terrestrial Snail Activity Monitoring. <i>IEEE Sensors Journal</i> , 2017 , 17, 5008-5015	4	13
65	Effect of temporal and spatial noise on the performance of hardware oriented background extraction algorithms 2017 ,		1
64	Low-Power CMOS Vision Sensor for Gaussian Pyramid Extraction. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 483-495	5.5	14
63	Dynamic Model of Switched-Capacitor DCDC Converters in the Slow-Switching Limit Including Charge Reusing. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5293-5311	7.2	11
62	Dynamic joint model of capacitive charge pumps and on-chip photovoltaic cells for CMOS micro-energy harvesting. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1874-1894	2	5
61	Design for maximum power transfer efficiency of thermoelectric generators using mixed mode simulations 2016 ,		1
60	Image Feature Extraction Acceleration. <i>Studies in Computational Intelligence</i> , 2016 , 109-132	0.8	1
59	Live demonstration: Wireless sensor network for snail pest detection 2016 ,		1
58	Four-transistor pinned photodiodes in standard CMOS technologies for time-of-flight sensors. <i>Semiconductor Science and Technology</i> , 2015 , 30, 045002	1.8	2
57	Distance measurement error in time-of-flight sensors due to shot noise. <i>Sensors</i> , 2015 , 15, 4624-42	3.8	16

56	Capacitance-based wireless sensor mote for snail pest detection 2015 ,			2
55	The dickson charge pump as voltage booster for light energy harvesting on CMOS vision chips 2014 ,			2
54	Simplification and hardware implementation of the feature descriptor vector calculation in the SIFT algorithm 2014 ,			2
53	Gaussian pyramid extraction with a CMOS vision sensor 2014 ,			1
52	Dark current in standard CMOS pinned photodiodes for Time-of-Flight sensors 2014 ,			2
51	Wireless sensor mote for snail pest detection 2014 ,			6
50	A 26.5 nJ/px 2.64 Mpx/s CMOS vision sensor for Gaussian pyramid extraction 2014 ,			3
49	Split and shift methodology on cellular processor arrays: area saving versus time penalty. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 258-295			2
48	. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2012 , 2, 723-736	5.2		15
47	2011 ,			8
46	FPGA computation of the 3D heat equation. <i>Computational Geosciences</i> , 2010 , 14, 649-664	2.7		
45	Non-destructive soil inspection using an efficient 3D softwareHardware heat equation solver. <i>Inverse Problems in Science and Engineering</i> , 2009 , 17, 755-775	1.3		
44	A study of CMOS radiation tolerant transistors using green functions 2009 ,			1
43	Efficient softwareHardware 3D heat equation solver with applications on the non-destructive evaluation of minefields. <i>Computers and Geosciences</i> , 2009 , 35, 2239-2249	4.5		1
42	A dc I_{D} model for short-channel polygonal enclosed-layout transistors. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 37, 163-177	2		2
41	Analytical model of short-channel gate enclosed transistors using Green functions. <i>Solid-State Electronics</i> , 2009 , 53, 514-519	1.7		1
40	A 2D model for radiation-hard CMOS annular transistors. <i>Semiconductor Science and Technology</i> , 2009 , 24, 125009	1.8		3
39	FPGA-based hardware accelerator of the heat equation with applications on infrared thermography 2008 ,			2

38	DT-CNN emulator: 3D heat equation solver with applications on the non-destructive soil inspection 2008,		1
37	Template-oriented hardware design based on shape analysis of 2D CNN operators in CNN template libraries and applications 2008,		2
36	Bottom collection of photodiode-based CMOS APS 2008,		2
35	Soft-Hard 3D FD-TD Solver for Non Destructive Evaluation 2007,		3
34	Verification of Split&Shift techniques for CNN hardware reduction 2007,		1
33	CNN Implementation of Spin Filters for Electronic Speckle Pattern Interferometry Applications 2007,		1
32	Area and Time Efficient Cellular Non-linear Networks 2007,		2
31	Improved Analytical I-V model for polygonal-shape enclosed layout transistors 2007,		3
30	A binary-based on-chip CNN solution for pixel-level snakes. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 383-407	2	8
29	FPGA Implementation of 3-D Thermal Model Simulator 2006,		2
28	On the Reduction of the Number of Coefficient Circuits in a DTCNN Cell 2006,		3
27	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004 , 51, 997-1013		18
26	Improved thermal analysis of buried landmines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004 , 42, 1965-1975	8.1	15
25	Cellular neural networks and active contours: a tool for image segmentation. <i>Image and Vision Computing</i> , 2003 , 21, 189-204	3.7	33
24	Discriminant snakes for 3D reconstruction of anatomical organs. <i>Medical Image Analysis</i> , 2003 , 7, 293-310	5.4	12
23	Robustness oriented design tool for multilayer DTCNN applications. <i>International Journal of Circuit Theory and Applications</i> , 2002 , 30, 195-210	2	4
22	A snake for CT image segmentation integrating region and edge information. <i>Image and Vision Computing</i> , 2001 , 19, 461-475	3.7	41
21	Biomedical active segmentation guided by edge saliency. <i>Pattern Recognition Letters</i> , 2000 , 21, 559-572	4.7	12

20	Automatic segmentation of lung fields on chest radiographic images. <i>Journal of Biomedical Informatics</i> , 1999 , 32, 283-303		3
19	Genetic algorithm based training for multilayer discrete-time cellular neural networks. <i>Lecture Notes in Computer Science</i> , 1999 , 467-476	0.9	1
18	A Markov random field model for bony tissue classification. <i>Computerized Medical Imaging and Graphics</i> , 1998 , 22, 169-78	7.6	1
17	Discrete-time CNN for image segmentation by active contours. <i>Pattern Recognition Letters</i> , 1998 , 19, 721-734	4.7	25
16	Computer-aided diagnosis: a neural-network-based approach to lung nodule detection. <i>IEEE Transactions on Medical Imaging</i> , 1998 , 17, 872-80	11.7	127
15	Computer-aided diagnoses: automatic detection of lung nodules. <i>Medical Physics</i> , 1998 , 25, 1998-2006	4.4	33
14	A snake for model-based segmentation of biomedical images. <i>Pattern Recognition Letters</i> , 1997 , 18, 1529-1538	16	
13	The Markov random fields in functional neighbors as a texture model: applications in texture classification 1996 ,		2
12	Computer-aided lung nodule detection in chest radiography. <i>Lecture Notes in Computer Science</i> , 1995 , 331-338	0.9	7
11	Fuzzy K-nearest neighbor classifiers for ventricular arrhythmia detection. <i>International Journal of Bio-medical Computing</i> , 1991 , 27, 77-93		24
10	ON KNOWLEDGE-BASED MEDICAL IMAGE UNDERSTANDING. <i>Cybernetics and Systems</i> , 1990 , 21, 277-289	1.9	2
9	Algorithmic sequential decision-making in the frequency domain for life threatening ventricular arrhythmias and imitative artefacts: a diagnostic system. <i>Journal of Biomedical Engineering</i> , 1989 , 11, 320-8		118
8	1988 ,		4
7	A computational frame to study social behaviour in animals. <i>International Journal of Bio-medical Computing</i> , 1986 , 19, 201-18		1
6	Performance analysis of high-speed MOS transistors with different layout styles		8
5	A one-quadrant discrete-time cellular neural network CMOS chip for pixel-level snakes		3
4	A one-quadrant discrete-time cellular neural network architecture for pixel-level snakes: B/W processing		3
3	CNN-based 3D thermal modeling of the soil for antipersonnel mine detection		4

2	Antipersonnel mine detection on infrared images	1
1	Design and training of multilayer discrete time cellular neural networks for antipersonnel mine detection using genetic algorithms	5