

# Diego Cabello

## List of Publications by Citations

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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	Computer-aided diagnosis: a neural-network-based approach to lung nodule detection. <i>IEEE Transactions on Medical Imaging</i> , <b>1998</b> , 17, 872-80	11.7	127
72	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> , <b>1989</b> , 11, 320-8		118
71	A snake for CT image segmentation integrating region and edge information. <i>Image and Vision Computing</i> , <b>2001</b> , 19, 461-475	3.7	41
70	Cellular neural networks and active contours: a tool for image segmentation. <i>Image and Vision Computing</i> , <b>2003</b> , 21, 189-204	3.7	33
69	Computer-aided diagnoses: automatic detection of lung nodules. <i>Medical Physics</i> , <b>1998</b> , 25, 1998-2006	4.4	33
68	Discrete-time CNN for image segmentation by active contours. <i>Pattern Recognition Letters</i> , <b>1998</b> , 19, 721-734	4.7	25
67	Fuzzy K-nearest neighbor classifiers for ventricular arrhythmia detection. <i>International Journal of Bio-medical Computing</i> , <b>1991</b> , 27, 77-93		24
66	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2004</b> , 51, 997-1013		18
65	Distance measurement error in time-of-flight sensors due to shot noise. <i>Sensors</i> , <b>2015</b> , 15, 4624-42	3.8	16
64	A snake for model-based segmentation of biomedical images. <i>Pattern Recognition Letters</i> , <b>1997</b> , 18, 1529-1538	4.16	16
63	. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2012</b> , 2, 723-736	5.2	15
62	Improved thermal analysis of buried landmines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2004</b> , 42, 1965-1975	8.1	15
61	Low-Power CMOS Vision Sensor for Gaussian Pyramid Extraction. <i>IEEE Journal of Solid-State Circuits</i> , <b>2017</b> , 52, 483-495	5.5	14
60	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 $\mu$ W Using Continuous MPPT. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 5105-5116	7.2	14
59	Wireless Sensor Network With Perpetual Motes for Terrestrial Snail Activity Monitoring. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5008-5015	4	13
58	Discriminant snakes for 3D reconstruction of anatomical organs. <i>Medical Image Analysis</i> , <b>2003</b> , 7, 293-310	5.4	12
57	Biomedical active segmentation guided by edge saliency. <i>Pattern Recognition Letters</i> , <b>2000</b> , 21, 559-572	4.7	12

56	Dynamic Model of Switched-Capacitor DCDC Converters in the Slow-Switching Limit Including Charge Reusing. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 5293-5311	7.2	11
55	<b>2011</b> ,		8
54	A binary-based on-chip CNN solution for pixel-level snakes. <i>International Journal of Circuit Theory and Applications</i> , <b>2006</b> , 34, 383-407	2	8
53	Performance analysis of high-speed MOS transistors with different layout styles		8
52	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> , <b>2020</b> , 67, 1103-1114 <sup>3.9</sup>		7
51	Computer-aided lung nodule detection in chest radiography. <i>Lecture Notes in Computer Science</i> , <b>1995</b> , 331-338	0.9	7
50	Wireless sensor mote for snail pest detection <b>2014</b> ,		6
49	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> , <b>2016</b> , 44, 1874-1894	2	5
48	Design and training of multilayer discrete time cellular neural networks for antipersonnel mine detection using genetic algorithms		5
47	Robustness oriented design tool for multilayer DTCNN applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2002</b> , 30, 195-210	2	4
46	CNN-based 3D thermal modeling of the soil for antipersonnel mine detection		4
45	<b>1988</b> ,		4
44	A 26.5 nJ/px 2.64 Mpx/s CMOS vision sensor for Gaussian pyramid extraction <b>2014</b> ,		3
43	A 2D model for radiation-hard CMOS annular transistors. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 125009	1.8	3
42	Soft-Hard 3D FD-TD Solver for Non Destructive Evaluation <b>2007</b> ,		3
41	Improved Analytical I-V model for polygonal-shape enclosed layout transistors <b>2007</b> ,		3
40	On the Reduction of the Number of Coefficient Circuits in a DTCNN Cell <b>2006</b> ,		3
39	A one-quadrant discrete-time cellular neural network CMOS chip for pixel-level snakes		3

38	A one-quadrant discrete-time cellular neural network architecture for pixel-level snakes: B/W processing		3
37	Automatic segmentation of lung fields on chest radiographic images. <i>Journal of Biomedical Informatics</i> , <b>1999</b> , 32, 283-303		3
36	Four-transistor pinned photodiodes in standard CMOS technologies for time-of-flight sensors. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 045002	1.8	2
35	Capacitance-based wireless sensor mote for snail pest detection <b>2015</b> ,		2
34	In-pixel analog memories for a pixel-based background subtraction algorithm on CMOS vision sensors. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 1631	2	2
33	The dickson charge pump as voltage booster for light energy harvesting on CMOS vision chips <b>2014</b> ,		2
32	Simplification and hardware implementation of the feature descriptor vector calculation in the SIFT algorithm <b>2014</b> ,		2
31	Dark current in standard CMOS pinned photodiodes for Time-of-Flight sensors <b>2014</b> ,		2
30	A dc $I_{D}$ model for short-channel polygonal enclosed-layout transistors. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 37, 163-177	2	2
29	FPGA-based hardware accelerator of the heat equation with applications on infrared thermography <b>2008</b> ,		2
28	Template-oriented hardware design based on shape analysis of 2D CNN operators in CNN template libraries and applications <b>2008</b> ,		2
27	Bottom collection of photodiode-based CMOS APS <b>2008</b> ,		2
26	Area and Time Efficient Cellular Non-linear Networks <b>2007</b> ,		2
25	FPGA Implementation of 3-D Thermal Model Simulator <b>2006</b> ,		2
24	The Markov random fields in functional neighbors as a texture model: applications in texture classification <b>1996</b> ,		2
23	ON KNOWLEDGE-BASED MEDICAL IMAGE UNDERSTANDING. <i>Cybernetics and Systems</i> , <b>1990</b> , 21, 277-289.	1.9	2
22	Design for maximum power transfer efficiency of thermoelectric generators using mixed mode simulations <b>2016</b> ,		1
21	Image Feature Extraction Acceleration. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 109-132	0.8	1

20	Ultralow power voltage reference circuit for implantable devices in standard CMOS technology. <i>International Journal of Circuit Theory and Applications</i> , <b>2019</b> , 47, 991-1005	2	1
19	Gaussian pyramid extraction with a CMOS vision sensor <b>2014</b> ,		1
18	Effect of temporal and spatial noise on the performance of hardware oriented background extraction algorithms <b>2017</b> ,		1
17	A study of CMOS radiation tolerant transistors using green functions <b>2009</b> ,		1
16	Efficient softwareHardware 3D heat equation solver with applications on the non-destructive evaluation of minefields. <i>Computers and Geosciences</i> , <b>2009</b> , 35, 2239-2249	4.5	1
15	Analytical model of short-channel gate enclosed transistors using Green functions. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 514-519	1.7	1
14	A Markov random field model for bony tissue classification. <i>Computerized Medical Imaging and Graphics</i> , <b>1998</b> , 22, 169-78	7.6	1
13	DT-CNN emulator: 3D heat equation solver with applications on the non-destructive soil inspection <b>2008</b> ,		1
12	Verification of Split&Shift techniques for CNN hardware reduction <b>2007</b> ,		1
11	CNN Implementation of Spin Filters for Electronic Speckle Pattern Interferometry Applications <b>2007</b> ,		1
10	Antipersonnel mine detection on infrared images		1
9	Genetic algorithm based training for multilayer discrete-time cellular neural networks. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 467-476	0.9	1
8	A computational frame to study social behaviour in animals. <i>International Journal of Bio-medical Computing</i> , <b>1986</b> , 19, 201-18		1
7	Live demonstration: Wireless sensor network for snail pest detection <b>2016</b> ,		1
6	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> , <b>2021</b> , 1-1	3.5	0
5	Split and shift methodology on cellular processor arrays: area saving versus time penalty. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 258-295	2	
4	Non-destructive soil inspection using an efficient 3D softwareHardware heat equation solver. <i>Inverse Problems in Science and Engineering</i> , <b>2009</b> , 17, 755-775	1.3	
3	FPGA computation of the 3D heat equation. <i>Computational Geosciences</i> , <b>2010</b> , 14, 649-664	2.7	

- 2 Corrections to Wireless Sensor Network With Perpetual Motes for Terrestrial Snail Activity Monitoring. *IEEE Sensors Journal*, **2019**, 19, 6553-6553 4
- 1 Pulsed time-of-flight pixel with on-chip 20klux background light suppression in standard CMOS technology. *International Journal of Circuit Theory and Applications*, **2018**, 46, 987-1005 2