Ricard Delgado-Gonzalo

List of Publications by Year
in descending order

47 papers	998 citations	687220 13 h-index	794469 19 g-index
50 all docs	50 docs citations	50 times ranked	1306 citing authors

#	Article	IF	Citations
1	KeVlar-Tz: A Secure Cache for Arm TrustZone. Lecture Notes in Computer Science, 2021, , 109-124.	1.0	2
2	Lung Nodule Malignancy Prediction in Sequential CT Scans: Summary of ISBI 2018 Challenge. IEEE Transactions on Medical Imaging, 2021, 40, 3748-3761.	5.4	13
3	Ultra-low-power Physical Activity Classifier for Wearables: From Generic MCUs to ASICs. , 2021, 2021, 6978-6981.		0
4	Convolutional-Recurrent Neural Networks on Low-Power Wearable Platforms for Cardiac Arrhythmia Detection. , 2020, , .		19
5	MQT-TZ: Hardening IoT Brokers Using ARM TrustZone : (Practical Experience Report). , 2020, , .		5
6	Embedded Deep Learning for Sleep Staging. , 2019, , .		2
7	Using Trusted Execution Environments for Secure Stream Processing of Medical Data. Lecture Notes in Computer Science, 2019, , 91-107.	1.0	9
8	Secure Stream Processing for Medical Data. , 2019, 2019, 3450-3453.		4
9	Pulse Wave Analysis Techniques. , 2019, , 107-137.		14
10	Classification of Cardiac Arrhythmias from Single Lead ECG with a Convolutional Recurrent Neural Network. , 2019, , .		8
11	Detection of beat-to-beat intervals from wrist photoplethysmography in patients with sinus rhythm and atrial fibrillation after surgery. , 2018, , .		8
12	Respiratory and cardiac monitoring at night using a wrist wearable optical system. , 2018, 2018, 2861-2864.		11
13	Learning a physical activity classifier for a low-power embedded wrist-located device. , 2018, , .		2
14	Optical wrist-worn device for sleep monitoring. IFMBE Proceedings, 2018, , 615-618.	0.2	15
15	FlyLimbTracker: An active contour based approach for leg segment tracking in unmarked, freely behaving Drosophila. PLoS ONE, 2017, 12, e0173433.	1.1	35
16	Towards 24/7 continuous heart rate monitoring. , 2016, 2016, 186-189.		6
17	USER-friendly image-based segmentation and analysis of chromosomes. , 2016, , .		7
18	Real-time monitoring of swimming performance. , 2016, 2016, 4743-4746.		12

#	Article	IF	Citations
19	A family of smooth and interpolatory basis functions for parametric curve and surface representation. Applied Mathematics and Computation, 2016, 272, 53-63.	1.4	66
20	Clinical validation of LTMS-S: A wearable system for vital signs monitoring. , 2015, 2015, 3125-8.		16
21	Evaluation of accuracy and reliability of PulseOn optical heart rate monitoring device. , 2015, 2015, 430-3.		39
22	Accurate walking and running speed estimation using wrist inertial data. , 2015, 2015, 8083-6.		12
23	Physical activity profiling: Activity-specific step counting and energy expenditure models using 3D wrist acceleration. , 2015, 2015, 8091-4.		10
24	Evaluation of the beat-to-beat detection accuracy of PulseOn wearable optical heart rate monitor. , 2015, 2015, 8099-102.		71
25	Snakes on a Plane: A perfect snap for bioimage analysis. IEEE Signal Processing Magazine, 2015, 32, 41-48.	4.6	63
26	Efficient Shape Priors for Spline-Based Snakes. IEEE Transactions on Image Processing, 2015, 24, 3915-3926.	6.0	15
27	Trigonometric Interpolation Kernel to Construct Deformable Shapes for User-Interactive Applications. IEEE Signal Processing Letters, 2015, 22, 2097-2101.	2.1	65
28	Snakes with tangent-based control and energies for bioimage analysis. , 2014, , .		2
29	Atlas-free brain segmentation in 3D proton-density-like MRI images. , 2014, , .		5
30	Exponential Hermite splines for the analysis of biomedical images. , 2014, , .		22
31	Anillin Regulates Cell-Cell Junction Integrity by Organizing Junctional Accumulation of Rho-GTP and Actomyosin. Current Biology, 2014, 24, 1263-1270.	1.8	98
32	Human Energy Expenditure Models: Beyond State-of-the-Art Commercialized Embedded Algorithms. Lecture Notes in Computer Science, 2014, , 3-14.	1.0	5
33	Spline-based framework for interactive segmentation in biomedical imaging. Irbm, 2013, 34, 235-243.	3.7	18
34	Spline-Based Deforming Ellipsoids for Interactive 3D Bioimage Segmentation. IEEE Transactions on Image Processing, 2013, 22, 3926-3940.	6.0	29
35	A chemostat array enables the spatio-temporal analysis of the yeast proteome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15842-15847.	3.3	123
36	Fast parametric snakes for 3D microscopy. , 2012, , .		7

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37	Exponential splines and minimal-support bases for curve representation. Computer Aided Geometric Design, 2012, 29, 109-128.	0.5	22
38	Snakes With an Ellipse-Reproducing Property. IEEE Transactions on Image Processing, 2012, 21, 1258-1271.	6.0	51
39	The Ovuscule. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 382-393.	9.7	43
40	A new hybrid Bayesian-variational particle filter with application to mitotic cell tracking. , 2011, , .		10
41	Variational enhancement and denoising of flow field images. , 2011, , .		10
42	Multi-target tracking of packed yeast cells. , 2010, , .		6
43	Fractal modelling and analysis of flow-field images. , 2010, , .		1
44	Fractional Laplacian pyramids. , 2009, , .		1
45	Mesh model 2D reconstruction operator for SPECT. Proceedings of SPIE, 2008, , .	0.8	1
46	Progress in mesh based spatio-temporal reconstruction. , 2008, , .		2
47	Mesh model based projection operator for emission tomography. , 2007, , .		6