George Azzopardi

List of Publications by Year
in descending order

70 papers	**1,905** citations	471509 **17** h-index	276875 **41** g-index
74 all docs	**74** docs citations	**74** times ranked	**1534** citing authors

#	Article	IF	Citations
1	A framework for feature selection through boosting. Expert Systems With Applications, 2022, 187, 115895.	7.6	65
2	CORF3D contour maps with application to Holstein cattle recognition from RGB and thermal images. Expert Systems With Applications, 2022, 192, 116354.	7.6	13
3	Source Camera Device Identification from Videos. SN Computer Science, 2022, 3, .	3.6	5
4	Camera model identification based on forensic traces extracted from homogeneous patches. Expert Systems With Applications, 2022, 206, 117769.	7.6	11
5	Video Camera Identification from Sensor Pattern Noise with a Constrained ConvNet. , 2021, , .		6
6	Editorial: Autonomous Health Monitoring and Assistance Systems With IoT. Frontiers in Robotics and AI, 2021, 8, 611352.	3.2	0
7	Use of Convolutional Neural Networks for the Detection of u-Serrated Patterns in Direct Immunofluorescence Images to Facilitate the Diagnosis of Epidermolysis Bullosa Acquisita. American Journal of Pathology, 2021, 191, 1520-1525.	3.8	0
8	Injury Prediction in Competitive Runners With Machine Learning. International Journal of Sports Physiology and Performance, 2021, 16, 1522-1531.	2.3	17
9	Fall Detection and Recognition from Egocentric Visual Data: A Case Study. Lecture Notes in Computer Science, 2021, , 431-443.	1.3	2
10	U-COSFIRE filters for vessel tortuosity quantification with application to automated diagnosis of retinopathy of prematurity. Neural Computing and Applications, 2020, 32, 12453-12468.	5.6	9
11	A Framework for Creating Deployable Smart Contracts for Non-fungible Tokens on the Ethereum Blockchain. , 2020, , .		24
12	Assessment and Estimation of Face Detection Performance Based on Deep Learning for Forensic Applications. Sensors, 2020, 20, 4491.	3.8	21
13	Elderly Fall Detection Systems: A Literature Survey. Frontiers in Robotics and AI, 2020, 7, 71.	3.2	149
14	A robust contour detection operator with combined push-pull inhibition and surround suppression. Information Sciences, 2020, 524, 229-240.	6.9	12
15	Detection of illicit accounts over the Ethereum blockchain. Expert Systems With Applications, 2020, 150, 113318.	7.6	127
16	Device-based Image Matching with Similarity Learning by Convolutional Neural Networks that Exploit the Underlying Camera Sensor Pattern Noise. , 2020, , .		3
17	Robust Inhibition-Augmented Operator for Delineation of Curvilinear Structures. IEEE Transactions on Image Processing, 2019, 28, 5852-5866.	9.8	28
18	Alpha-tree segmentation of human anatomical photographic imagery. , 2019, , .		0

#	Article	IF	Citations
19	Age group recognition from face images using a fusion of CNN- and COSFIRE-based features. , 2019, , .		2
20	Identification of possible Î"14C anomalies since 14â€‰ka BP: A computational intelligence approach. Science of the Total Environment, 2019, 663, 162-169.	8.0	2
21	Estimation of Muscle Scores of Live Pigs Using a Kinect Camera. IEEE Access, 2019, 7, 52238-52245.	4.2	18
22	Trainable Filters for the Identification of Anomalies in Cosmogenic Isotope Data. IEEE Access, 2019, 7, 24585-24592.	4.2	2
23	Brain-Inspired Robust Delineation Operator. Lecture Notes in Computer Science, 2019, , 555-565.	1.3	4
24	Detection of u-serrated patterns in direct immunofluorescence images of autoimmune bullous diseases by inhibition-augmented COSFIRE filters. International Journal of Medical Informatics, 2019, 122, 27-36.	3.3	3
25	Automatic Determination of Vertical Cup-to-Disc Ratio in Retinal Fundus Images for Glaucoma Screening. IEEE Access, 2019, 7, 8527-8541.	4.2	23
26	An Explainable AI-Based Computer Aided Detection System for Diabetic Retinopathy Using Retinal Fundus Images. Lecture Notes in Computer Science, 2019, , 457-468.	1.3	4
27	A Computer Vision Pipeline that Uses Thermal and RGB Images for the Recognition of Holstein Cattle. Lecture Notes in Computer Science, 2019, , 108-119.	1.3	5
28	Fusion of Domain-Specific and Trainable Features for Gender Recognition From Face Images. IEEE Access, 2018, 6, 24171-24183.	4.2	33
29	The Blockchain of Things, Beyond Bitcoin: A Systematic Review. , 2018, , .		18
30	Customer Churn Prediction for a Motor Insurance Company. , 2018, , .		8
31	Vectorisation of Sketches with Shadows and Shading using COSFIRE filters. , 2018, , .		0
32	Automatic Ornament Localisation, Recognition and Expression from Music Sheets. , 2018, , .		0
33	Gender recognition from face images using trainable shape and color features. , 2018, , .		4
34	Prediction of slaughter age in pigs and assessment of the predictive value of phenotypic and genetic information using random forest. Journal of Animal Science, 2018, 96, 4935-4943.	0.5	11
35	Identification of milling inserts in situ based on a versatile machine vision system. Journal of Manufacturing Systems, 2017, 45, 48-57.	13.9	12
36	Detection of Curved Lines with B-COSFIRE Filters: A Case Study on Crack Delineation. Lecture Notes in Computer Science, 2017, , 108-120.	1.3	17

#	Article	IF	Citations
37	Machine-vision-based identification of broken inserts in edge profile milling heads. Robotics and Computer-Integrated Manufacturing, 2017, 44, 276-283.	9.9	67
38	Color-blob-based COSFIRE filters for object recognition. Image and Vision Computing, 2017, 57, 165-174.	4.5	30
39	Fast gender recognition in videos using a novel descriptor based on the gradient magnitudes of facial landmarks. , 2017, , .		14
40	A deep learning approach for detecting and correcting highlights in endoscopic images. , 2017, , .		7
41	Inhibition-augmented COSFIRE model of shape-selective neurons. IBM Journal of Research and Development, 2017, 61, 10:1-10:9.	3.1	2
42	Gender Recognition from Face Images Using a Fusion of SVM Classifiers. Lecture Notes in Computer Science, 2016, , 533-538.	1.3	17
43	Increased generalization capability of trainable COSFIRE filters with application to machine vision. , 2016, , .		4
44	Supervised vessel delineation in retinal fundus images with the automatic selection of B-COSFIRE filters. Machine Vision and Applications, 2016, 27, 1137-1149.	2.7	81
45	Gender recognition from face images with trainable COSFIRE filters. , 2016, , .		28
46	Special issue on selected papers from CAIP 2015. Machine Vision and Applications, 2016, 27, 1115-1115.	2.7	0
47	Inhibition-augmented trainable COSFIRE filters for keypoint detection and object recognition. Machine Vision and Applications, 2016, 27, 1197-1211.	2.7	5
48	Cutting Edge Localisation in an Edge Profile Milling Head. Lecture Notes in Computer Science, 2015, , 336-347.	1.3	8
49	Incremental concept learning with few training examples and hierarchical classification. , 2015, , .		1
50	Multiscale Blood Vessel Delineation Using B-COSFIRE Filters. Lecture Notes in Computer Science, 2015, , 300-312.	1.3	14
51	Interactive detection of incrementally learned concepts in images with ranking and semantic query interpretation. , 2015, , .		4
52	Computer Analysis of Images and Patterns. Lecture Notes in Computer Science, 2015, , .	1.3	6
53	Trainable COSFIRE filters for vessel delineation with application to retinal images. Medical Image Analysis, 2015, 19, 46-57.	11.6	581
54	Recognition of Architectural and Electrical Symbols by COSFIRE Filters with Inhibition. Lecture Notes in Computer Science, 2015, , 348-358.	1.3	7

#	Article	IF	Citations
55	Filter-Based Approach for Ornamentation Detection and Recognition in Singing Folk Music. Lecture Notes in Computer Science, 2015, , 558-569.	1.3	3
56	Ventral-stream-like shape representation: from pixel intensity values to trainable object-selective COSFIRE models. Frontiers in Computational Neuroscience, 2014, 8, 80.	2.1	19
57	A Push-Pull CORF Model of a Simple Cell with Antiphase Inhibition Improves SNR and Contour Detection. PLoS ONE, 2014, 9, e98424.	2.5	38
58	Parametric Nonlinear Regression Models for Dike Monitoring Systems. Lecture Notes in Computer Science, 2014, , 345-355.	1.3	0
59	COSFIRE: A Brain-Inspired Approach to Visual Pattern Recognition. Lecture Notes in Computer Science, 2014, , 76-87.	1.3	3
60	A Shape Descriptor Based on Trainable COSFIRE Filters for the Recognition of Handwritten Digits. Lecture Notes in Computer Science, 2013, , 9-16.	1.3	11
61	Trainable COSFIRE Filters for Keypoint Detection and Pattern Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 490-503.	13.9	98
62	Automatic detection of vascular bifurcations in segmented retinal images using trainable COSFIRE filters. Pattern Recognition Letters, 2013, 34, 922-933.	4.2	76
63	Detection of retinal vascular bifurcations by rotation-, scale- and reflection-invariant COSFIRE filters. , 2012, , .		0
64	A CORF computational model of a simple cell that relies on LGN input outperforms the Gabor function model. Biological Cybernetics, 2012, 106, 177-189.	1.3	89
65	Contour Detection by CORF Operator. Lecture Notes in Computer Science, 2012, , 395-402.	1.3	4
66	Detection of Retinal Vascular Bifurcations by Rotation- and Scale-Invariant COSFIRE Filters. Lecture Notes in Computer Science, 2012, , 363-371.	1.3	0
67	Detection of Retinal Vascular Bifurcations by Trainable V4-Like Filters. Lecture Notes in Computer Science, 2011, , 451-459.	1.3	19
68	Variance Ranklets: orientationâ€"selective rank features for contrast modulations. , 2009, , .		0
69	Reinforcement of age estimation in forensic tools to detect Child Sexual Exploitation Material. ColecciÃ³n Jornadas Y Congresos, 0, , .	0.0	0
70	Development of a Hardware Benchmark for Forensic Face Detection Applications. ColecciÃ³n Jornadas Y Congresos, 0, , .	0.0	0