Lucia Ballerini

List of Publications by Year
in descending order

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60	1,793	471509	330143
papers	citations	17 h-index	37 g-index

71	71	71	2106
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perivascular spaces in the brain: anatomy, physiology and pathology. Nature Reviews Neurology, 2020, 16, 137-153.	10.1	405
2	A Color and Texture Based Hierarchical K-NN Approach to the Classification of Non-melanoma Skin Lesions. Lecture Notes in Computational Vision and Biomechanics, 2013, , 63-86.	0.5	160
3	Perivascular spaces and their associations with risk factors, clinical disorders and neuroimaging features: A systematic review and meta-analysis. International Journal of Stroke, 2019, 14, 359-371.	5.9	123
4	Perivascular Spaces Segmentation in Brain MRI Using Optimal 3D Filtering. Scientific Reports, 2018, 8, 2132.	3.3	98
5	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 191-204.	2.4	65
6	Towards Standardization of Quantitative Retinal Vascular Parameters: Comparison of SIVA and VAMPIRE Measurements in the Lothian Birth Cohort 1936. Translational Vision Science and Technology, 2018, 7, 12.	2.2	55
7	Accurate and reliable segmentation of the optic disc in digital fundus images. Journal of Medical Imaging, 2014, 1, 024001.	1.5	54
8	An experimental study on the applicability of evolutionary algorithms to craniofacial superimposition in forensic identification. Information Sciences, 2009, 179, 3998-4028.	6.9	51
9	Computational quantification of brain perivascular space morphologies: Associations with vascular risk factors and white matter hyperintensities. A study in the Lothian Birth Cohort 1936. NeuroImage: Clinical, 2020, 25, 102120.	2.7	51
10	Retinal microvasculature and cerebral small vessel disease in the Lothian Birth Cohort 1936 and Mild Stroke Study. Scientific Reports, 2019, 9, 6320.	3.3	49
11	Retinal vessel classification: Sorting arteries and veins. , 2013, 2013, 7396-9.		43
12	A Query-by-Example Content-Based Image Retrieval System of Non-melanoma Skin Lesions. Lecture Notes in Computer Science, 2010, , 31-38.	1.3	40
13	Novice Identification of Melanoma: Not Quite as Straightforward as the ABCDs. Acta Dermato-Venereologica, 2011, 91, 125-130.	1.3	34
14	The use of radial symmetry to localize retinal landmarks. Computerized Medical Imaging and Graphics, 2013, 37, 369-376.	5.8	32
15	Novel VAMPIRE algorithms for quantitative analysis of the retinal vasculature. , 2013, , .		28
16	Application of the Ordered Logit Model to Optimising Frangi Filter Parameters for Segmentation of Perivascular Spaces. Procedia Computer Science, 2016, 90, 61-67.	2.0	28
17	Utility of Non-rule-based Visual Matching as a Strategy to Allow Novices to Achieve Skin Lesion Diagnosis. Acta Dermato-Venereologica, 2011, 91, 279-283.	1.3	24
18	Automatic retinal vessel classification using a Least Square-Support Vector Machine in VAMPIRE. , 2014, 2014, 142-5.		24

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19	Automatic Generation of Synthetic Retinal Fundus Images: Vascular Network. Procedia Computer Science, 2016, 90, 54-60.	2.0	23
20	Novel Genetic Locus Influencing Retinal Venular Tortuosity Is Also Associated With Risk of Coronary Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2542-2552.	2.4	23
21	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. Experimental Gerontology, 2020, 142, 111117.	2.8	23
22	<title>Genetic snakes for medical image segmentation</title>. , 1998, , .		20
23	Perivascular spaces in the centrum semiovale at the beginning of the 8th decade of life: effect on cognition and associations with mineral deposition. Brain Imaging and Behavior, 2020, 14, 1865-1875.	2.1	19
24	Cerebral small vessel disease burden and longitudinal cognitive decline from age 73 to 82: the Lothian Birth Cohort 1936. Translational Psychiatry, 2021, 11, 376.	4.8	19
25	Non-melanoma skin lesion classification using colour image data in a hierarchical K-NN classifier. , 2012, , .		18
26	Rationale and design of a longitudinal study of cerebral small vessel diseases, clinical and imaging outcomes in patients presenting with mild ischaemic stroke: Mild Stroke Study 3. European Stroke Journal, 2021, 6, 81-88.	5.5	17
27	A segmentation technique to determine fat content in NMR images of beef meat. IEEE Transactions on Nuclear Science, 2002, 49, 195-199.	2.0	16
28	Structural, Functional, and Metabolic Brain Differences as a Function of Gender Identity or Sexual Orientation: A Systematic Review of the Human Neuroimaging Literature. Archives of Sexual Behavior, 2021, 50, 3329-3352.	1.9	16
29	Depth Data Improves Skin Lesion Segmentation. Lecture Notes in Computer Science, 2009, 12, 1100-1107.	1.3	14
30	Pore formation in curedâ€“smoked pork determined with image analysisâ€”effects of tumbling and RNâ˜ gene. Meat Science, 2003, 65, 1231-1236.	5.5	11
31	Teaching Dermatology Using 3-Dimensional Virtual Reality. Archives of Dermatology, 2010, 146, 1184-5; author reply 1185-6.	1.4	11
32	Comparison of structural MRI brain measures between 1.5 and 3ÂT: Data from the Lothian Birth Cohort 1936. Human Brain Mapping, 2021, 42, 3905-3921.	3.6	11
33	A New Evolutionary Algorithm for Image Segmentation. Lecture Notes in Computer Science, 2005, , 264-273.	1.3	11
34	Craniofacial Superimposition in Forensic Identification using Genetic Algorithms. , 2007, , .		10
35	Image Segmentation by a Genetic Fuzzy c-Means Algorithm Using Color and Spatial Information. Lecture Notes in Computer Science, 2004, , 260-269.	1.3	9
36	Fuzzy description of skin lesions. , 2010, , .		9

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37	Automatic Generation of Synthetic Retinal Fundus Images: Vascular Network. Lecture Notes in Computer Science, 2016, , 167-176.	1.3	9
38	<title>Color image analysis technique for measuring of fat in meat: an application for the meat industry</title>. , 2001, 4301, 113.		8
39	Retinal microvascular features and cognitive change in the Lothianâ€Birth Cohort 1936. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 500-509.	2.4	8
40	Using orthogonal locality preserving projections to find dominant features for classifying retinal blood vessels. Multimedia Tools and Applications, 2019, 78, 12783-12803.	3.9	8
41	VAMPIRE^{Â®} fundus image analysis algorithms: Validation and diagnostic relevance in hypertensive cats. Veterinary Ophthalmology, 2019, 22, 819-827.	1.0	7
42	Spline-based refinement of vessel contours in fundus retinal images for width estimation. , 2013, , .		6
43	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. Cerebral Circulation - Cognition and Behavior, 2020, 1, 100002.	0.9	6
44	A fractal approach to predict fat content in meat images. , 0, , .		5
45	Comparison of histomorphometrical data obtained with two different image analysis methods. Journal of Materials Science: Materials in Medicine, 2007, 18, 1471-1479.	3.6	5
46	Association between retinal vasculature and muscle mass in older people. Archives of Gerontology and Geriatrics, 2015, 61, 425-428.	3.0	5
47	Modulation of retinal image vasculature analysis to extend utility and provide secondary value from optical coherence tomography imaging. Journal of Medical Imaging, 2016, 3, 020501.	1.5	5
48	Associations between total MRI-visible small vessel disease burden and domain-specific cognitive abilities in a community-dwelling older-age cohort. Neurobiology of Aging, 2021, 105, 25-34.	3.1	5
49	A Framework for Jointly Assessing and Reducing Imaging Artefacts Automatically Using Texture Analysis and Total Variation Optimisation for Improving Perivascular Spaces Quantification in Brain Magnetic Resonance Imaging. Communications in Computer and Information Science, 2020, , 171-183.	0.5	4
50	Automatic 3D Modeling of Skulls by Scatter Search and Heuristic Features. Advances in Soft Computing, 2009, , 149-158.	0.4	4
51	Contribution of white matter hyperintensities to ventricular enlargement in older adults. NeuroImage: Clinical, 2022, 34, 103019.	2.7	4
52	Classification of microscopic images of breast tissue. , 2004, 5370, 960.		3
53	<title>Integration of retinal image sequences</title>. , 1998, 3460, 237.		2
54	Bone segmentation using multiple communicating snakes. , 2003, , .		2

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55	Automatic Feature Extraction from 3D Range Images of Skulls. Lecture Notes in Computer Science, 2008, , 58-69.	1.3	2
56	Retinal Biomarkers Discovery for Cerebral Small Vessel Disease in an Older Population. Communications in Computer and Information Science, 2020, , 400-409.	0.5	2
57	Retinal Biomarker Discovery for Dementia in an Elderly Diabetic Population. Lecture Notes in Computer Science, 2017, , 150-158.	1.3	1
58	<title>Determination of fat content in NMR images of meat</title>. , 2000, 4115, 680.		0
59	Automatic 3D skull reconstruction using invariant features. , 2008, , .		0
60	Image Space Colonization Algorithm. Lecture Notes in Computer Science, 2006, , 356-367.	1.3	0