

Enrico Grisan

List of Publications by Citations

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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.

122
papers

1,973
citations

21
h-index

41
g-index

164
ext. papers

2,444
ext. citations

3.6
avg, IF

4.78
L-index

#	Paper	IF	Citations
122	Detection of optic disc in retinal images by means of a geometrical model of vessel structure. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 1189-95	11.7	284
121	Luminosity and contrast normalization in retinal images. <i>Medical Image Analysis</i> , 2005 , 9, 179-90	15.4	209
120	A novel method for the automatic grading of retinal vessel tortuosity. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 310-9	11.7	141
119	Early origins of adult disease: low birth weight and vascular remodeling. <i>Atherosclerosis</i> , 2014 , 237, 391-9	3.1	111
118	Automatic recognition of corneal nerve structures in images from confocal microscopy 2008 , 49, 4801-7		62
117	A new computerized method for the assessment of skin lesions in localized scleroderma. <i>Rheumatology</i> , 2007 , 46, 856-60	3.9	59
116	A divide et impera strategy for automatic classification of retinal vessels into arteries and veins		59
115	Boosting the Battery Life of Wearables for Health Monitoring Through the Compression of Biosignals. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1647-1662	10.7	50
114	Corneal confocal microscopy reveals trigeminal small sensory fiber neuropathy in amyotrophic lateral sclerosis. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 278	5.3	48
113	Automatic segmentation and disentangling of chromosomes in Q-band prometaphase images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 575-81		40
112	A review of thresholding strategies applied to human chromosome segmentation. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 679-88	6.9	38
111	A Smad3 transgenic reporter reveals TGF-beta control of zebrafish spinal cord development. <i>Developmental Biology</i> , 2014 , 396, 81-93	3.1	36
110	Glucocorticoids promote Von Hippel Lindau degradation and Hif-1 β stabilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9948-9953	11.5	30
109	Prediction of Adverse Glycemic Events From Continuous Glucose Monitoring Signal. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 650-659	7.2	29
108	A new tracking system for the robust extraction of retinal vessel structure. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2004, 1620-3		27
107	Down-regulation of coxsy, the gene associated with NBIA-VI, reduces Bmp signaling, perturbs dorso-ventral patterning and alters neuronal development in zebrafish. <i>Scientific Reports</i> , 2016 , 6, 37660	4.9	26
106	Effects of mud-bath therapy in psoriatic arthritis patients treated with TNF inhibitors. Clinical evaluation and assessment of synovial inflammation by contrast-enhanced ultrasound (CEUS). <i>Joint Bone Spine</i> , 2015 , 82, 104-8	2.9	25

105	Vascular perfusion kinetics by contrast-enhanced ultrasound are related to synovial microvasculature in the joints of psoriatic arthritis. <i>Clinical Rheumatology</i> , 2015 , 34, 1903-12	3.9	25
104	Textureless macula swelling detection with multiple retinal fundus images. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 795-9	5	25
103	Segmentation of candidate dark lesions in fundus images based on local thresholding and pixel density. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6736-9		25
102	A new system for the automatic estimation of endothelial cell density in donor corneas. <i>British Journal of Ophthalmology</i> , 2005 , 89, 306-11	5.5	25
101	Loss of cardiac Wnt/ β -catenin signalling in desmoplakin-deficient AC8 zebrafish models is rescuable by genetic and pharmacological intervention. <i>Cardiovascular Research</i> , 2018 , 114, 1082-1097	9.9	21
100	A modular framework for the automatic classification of chromosomes in Q-band images. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 105, 120-30	6.9	19
99	Developmental programming of cardiovascular risk in intrauterine growth-restricted twin fetuses according to aortic intima thickness. <i>Journal of Ultrasound in Medicine</i> , 2013 , 32, 279-84	2.9	19
98	An improved system for the automatic estimation of the Arteriolar-to-Venular diameter Ratio (AVR) in retinal images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 1911-4	0.9	19
97	Quantitative imaging by pixel-based contrast-enhanced ultrasound reveals a linear relationship between synovial vascular perfusion and the recruitment of pathogenic IL-17A-FIL-23 CD161 CD4 T helper cells in psoriatic arthritis joints. <i>Clinical Rheumatology</i> , 2017 , 36, 391-399	3.9	18
96	Automatic classification of chromosomes in Q-band images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 1911-4	0.9	17
95	An automatic system for the estimation of generalized arteriolar narrowing in retinal images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6464-7		17
94	An objective comparison of detection and segmentation algorithms for artefacts in clinical endoscopy. <i>Scientific Reports</i> , 2020 , 10, 2748	4.9	16
93	The motor cortex of the sheep: laminar organization, projections and diffusion tensor imaging of the intracranial pyramidal and extrapyramidal tracts. <i>Brain Structure and Function</i> , 2019 , 224, 1933-1946 ⁴		15
92	Monitoring Wnt Signaling in Zebrafish Using Fluorescent Biosensors. <i>Methods in Molecular Biology</i> , 2016 , 1481, 81-94	1.4	15
91	The zebrafish orthologue of the human hepatocerebral disease gene plays pleiotropic roles in mitochondria. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	14
90	A novel method for the automatic evaluation of retinal vessel tortuosity		14
89	Fetal Abdominal Aorta: Doppler and Structural Evaluation of Endothelial Function in Intrauterine Growth Restriction and Controls. <i>Ultraschall in Der Medizin</i> , 2019 , 40, 55-63	3.8	14
88	A supervised learning approach for the robust detection of heart beat in plethysmographic data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 5825-8	0.9	13

87	Feeding Entrainment of the Zebrafish Circadian Clock Is Regulated by the Glucocorticoid Receptor. <i>Cells</i> , 2019 , 8,	7.9	13
86	Improved detection of synovial boundaries in ultrasound examination by using a cascade of active-contours. <i>Medical Engineering and Physics</i> , 2013 , 35, 188-94	2.4	13
85	Model-based illumination correction in retinal images		13
84	Treponema pallidum (syphilis) antigen TpF1 induces angiogenesis through the activation of the IL-8 pathway. <i>Scientific Reports</i> , 2016 , 6, 18785	4.9	13
83	Tcf7l2 plays pleiotropic roles in the control of glucose homeostasis, pancreas morphology, vascularization and regeneration. <i>Scientific Reports</i> , 2017 , 7, 9605	4.9	12
82	Contrast-enhanced ultrasound findings in soft-tissue lesions: preliminary results. <i>Journal of Ultrasound</i> , 2013 , 16, 21-7	3.4	11
81	Estimation of prenatal aorta intima-media thickness from ultrasound examination. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6355-71	3.8	11
80	Image-level tortuosity estimation in wide-field retinal images from infants with Retinopathy of Prematurity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4958-61	0.9	11
79	Analysis of corneal images for the recognition of nerve structures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4739-42		11
78	The knockout zebrafish line: a model to study Vici syndrome. <i>Autophagy</i> , 2019 , 15, 1438-1454	10.2	11
77	Grade and location of power Doppler are predictive of damage progression in rheumatoid arthritis patients in clinical remission by anti-tumour necrosis factor α <i>Rheumatology</i> , 2017 , 56, 1320-1325	3.9	10
76	Pixel-based approach to assess contrast-enhanced ultrasound kinetics parameters for differential diagnosis of rheumatoid arthritis. <i>Journal of Medical Imaging</i> , 2015 , 2, 034503	2.6	10
75	Barrett's esophagus digital pathology stage classification through feature enhancement of confocal laser endomicroscopy. <i>Journal of Medical Imaging</i> , 2019 , 6, 014502	2.6	9
74	Automatic analysis of pediatric renal ultrasound using shape, anatomical and image acquisition priors. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 259-66	0.9	9
73	Deep learning for the prediction of treatment response in depression. <i>Journal of Affective Disorders</i> , 2021 , 281, 618-622	6.6	9
72	A possible new approach in the prediction of late gestational hypertension: The role of the fetal aortic intima-media thickness. <i>Medicine (United States)</i> , 2017 , 96, e5515	1.8	8
71	Automatic vessel segmentation in wide-field retina images of infants with retinopathy of prematurity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3954-7	0.9	8
70	Automatic segmentation of chromosomes in Q-band images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5513-6		8

69	Controls the Dopaminergic/Oligodendroglial Fate through Wnt/Eatenin Signaling Regulation. <i>Cells</i> , 2020 , 9,	7.9	7
68	Biomedical signal compression with time- and subject-adaptive dictionary for wearable devices 2016 ,		7
67	Hybrid patch-based and image-wide classification of confocal laser endomicroscopy images in Barrett's esophagus surveillance 2013 ,		7
66	239 Computer Aided Diagnosis of Barrett's Esophagus Using Confocal Laser Endomicroscopy: Preliminary Data. <i>Gastrointestinal Endoscopy</i> , 2012 , 75, AB126	5.2	7
65	Resolving single cells in heavily clustered Nissl-stained images for the analysis of brain cytoarchitecture 2018 ,		6
64	MR and CEUS monitoring of patients with severe rheumatoid arthritis treated with biological agents: a preliminary study. <i>Radiologia Medica</i> , 2014 , 119, 422-31	6.5	6
63	Spline-based refinement of vessel contours in fundus retinal images for width estimation 2013 ,		5
62	Evaluation of repeatability for the automatic estimation of endothelial cell density in donor corneas. <i>British Journal of Ophthalmology</i> , 2007 , 91, 1213-5	5.5	5
61	No wavefront sensor adaptive optics system for compensation of primary aberrations by software analysis of a point source image. 1. Methods. <i>Applied Optics</i> , 2007 , 46, 6434-41	1.7	5
60	An Improved Segmentation of Chromosomes in Q-Band Prometaphase Images Using a Region Based Level Set. <i>IFMBE Proceedings</i> , 2009 , 748-751	0.2	5
59	Retinal Vessel Axis Estimation through a Multi-Directional Graph Search Approach. <i>IFMBE Proceedings</i> , 2009 , 137-140	0.2	5
58	Bayesian Quantification of Contrast-Enhanced Ultrasound Images With Adaptive Inclusion of an Irreversible Component. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1027-1036	11.7	4
57	An Ultrasonographic Multiparametric Carotid Plaque Risk Index Associated with Cerebrovascular Symptomatology: A Study Comparing Color Doppler Imaging and Contrast-Enhanced Ultrasonography. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1022-1028	4.4	4
56	Automatic classification of endoscopic images for premalignant conditions of the esophagus 2016 ,		4
55	Fully-automated identification and segmentation of aortic lumen from fetal ultrasound images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 153-6	0.9	4
54	Toward lightweight biometric signal processing for wearable devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4190-3	0.9	4
53	An improved classification scheme for chromosomes with missing data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5072-5	0.9	4
52	A Markov Random Field Approach to Outline Lesions in Fundus Images. <i>IFMBE Proceedings</i> , 2009 , 472-475.2		4

51	Efficient clofilium tosylate-mediated rescue of POLG-related disease phenotypes in zebrafish. <i>Cell Death and Disease</i> , 2021 , 12, 100	9.8	4
50	Quantification of kidneys from 3D ultrasound in pediatric hydronephrosis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 157-60	0.9	3
49	Semiautomatic detection of villi in confocal endoscopy for the evaluation of celiac disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 8143-6	0.9	3
48	P.10.1 COMPUTER AIDED DIAGNOSIS OF BARRETT'S ESOPHAGUS USING CONFOCAL LASER ENDOMICROSCOPY: PRELIMINARY DATA. <i>Digestive and Liver Disease</i> , 2012 , 44, S147-S148	3.3	3
47	A telerobotic manipulation system for an immerse ultrasonic examination using haptic constraints 2012 ,		3
46	Supervised classification of brain tissues through local multi-scale texture analysis by coupling DIR and FLAIR MR sequences 2012 ,		3
45	Boosting Invariance and Efficiency in Supervised Learning 2007 ,		3
44	3-D retinal surface inference: stereo or monocular fundus camera?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 896-9		3
43	No wavefront sensor adaptive optics system for compensation of primary aberrations by software analysis of a point source image. 2. Tests. <i>Applied Optics</i> , 2007 , 46, 6427-33	1.7	3
42	A lattice estimation approach for the automatic evaluation of corneal endothelium density. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 1700-3		3
41	Defocus Inpainting. <i>Lecture Notes in Computer Science</i> , 2006 , 349-359	0.9	3
40	Fast adaptive axis-based segmentation of retinal vessels through matched filters. <i>IFMBE Proceedings</i> , 2009 , 145-148	0.2	3
39	Multi-aspect testing and ranking inference to quantify dimorphism in the cytoarchitecture of cerebellum of male, female and intersex individuals: a model applied to bovine brains. <i>Brain Structure and Function</i> , 2020 , 225, 2669-2688	4	3
38	The claustrum of the sheep and its connections to the visual cortex. <i>Journal of Anatomy</i> , 2021 , 238, 1-12	2.9	3
37	Superpixel-based classification of gastric chromoendoscopy images 2017 ,		2
36	Does Quantification of Carotid Plaque Surface Irregularities Better Detect Symptomatic Plaques Compared to the Subjective Classification?. <i>Journal of Ultrasound in Medicine</i> , 2019 , 38, 3163-3171	2.9	2
35	Detection and density estimation of goblet cells in confocal endoscopy for the evaluation of celiac disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6248-51	0.9	2
34	Dynamic automated synovial imaging (DASI) for differential diagnosis of rheumatoid arthritis 2014 ,		2

33	A comparison of region-based and pixel-based CEUS kinetics parameters in the assessment of arthritis 2014 ,		2
32	FRI0478 Dynamic automated synovial imaging (DASI) For differentiating between rheumatoid arthritis and other forms of arthritis: automated versus manual interpretation in contrast-enhanced ultrasound. <i>Annals of the Rheumatic Diseases</i> , 2013 , 72, A536.3-A537	2.4	2
31	Detecting the optic disc in retinal images by means of a geometrical model of vessel network		2
30	Quantitative ultrasound for diagnosis and assessment of rheumatoid arthritis. <i>SPIE Newsroom</i> ,		2
29	Automatic Segmentation of Gray Matter Multiple Sclerosis Lesions on DIR Images. <i>IFMBE Proceedings</i> , 2014 , 241-244	0.2	2
28	Automated Estimation of Aortic Intima-Media Thickness from Fetal Ultrasound. <i>Lecture Notes in Computer Science</i> , 2014 , 33-40	0.9	2
27	An Assay System to Evaluate Riboflavin/UV-A Corneal Phototherapy Efficacy in a Porcine Corneal Organ Culture Model. <i>Animals</i> , 2020 , 10,	3.1	1
26	Computer-assisted automated image recognition of celiac disease using confocal endomicroscopy 2014 ,		1
25	Stability of a telerobotic manipulation system with proximityBased haptic feedback 2012 ,		1
24	Detecting false vessel recognitions in retinal fundus analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4449-52		1
23	OP15 A new simplified histology artificial intelligence system for accurate assessment of remission in Ulcerative Colitis. <i>Journal of Crohnts and Colitis</i> , 2022 , 16, i015-i017	1.5	1
22	The primary visual cortex of Cetartiodactyls: organization, cytoarchitectonics and comparison with perissodactyls and primates. <i>Brain Structure and Function</i> , 2021 , 1	4	1
21	Data-Driven Learning to Detect Characteristic Kinetics in Ultrasound Images of Arthritis. <i>Lecture Notes in Computer Science</i> , 2014 , 17-24	0.9	1
20	Single- and Multi-Distribution Dimensionality Reduction Approaches for a Better Data Structure Capturing. <i>IEEE Access</i> , 2020 , 8, 207141-207155	3.5	1
19	Super-Resolution Ultrasound Image Filtering with Machine-Learning to Reduce the Localization Error 2019 ,		1
18	LPHN2 inhibits vascular permeability by differential control of endothelial cell adhesion. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	1
17	Predicting functional impairment trajectories in amyotrophic lateral sclerosis: a probabilistic, multifactorial model of disease progression.. <i>Journal of Neurology</i> , 2022 , 1	5.5	1
16	OP16 The first virtual chromoendoscopy artificial intelligence system to detect endoscopic and histologic remission in Ulcerative Colitis. <i>Journal of Crohnts and Colitis</i> , 2022 , 16, i017-i018	1.5	0

15	OP10 Response to biologics in IBD patients assessed by Computerized image analysis of Probe Based Confocal Laser Endomicroscopy with molecular labeling and gene expression profiling. <i>Journal of Crohnts and Colitis</i> , 2021 , 15, S009-S010	1.5	0
14	Effets du traitement par les bains de boue dans le rhumatisme psoriasique chez les patients traités par anti-TNF. Évaluation clinique et par échographie de contraste de l'inflammation synoviale. <i>Revue Du Rhumatisme (Edition Francaise)</i> , 2015 , 82, 236-240	0.1	
13	Is machine learning prediction of Aβ positivity consistent? An assessment of multiple datasets. <i>Alzheimer's and Dementia</i> , 2020 , 16, e040990	1.2	
12	FRI0065 Presence, Grade and Location of Power Doppler Predict Progression of Radiographic Damage in TNF Blocker Induced Clinical Remission in Rheumatoid Arthritis Patients. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 449.2-449	2.4	
11	AB0953 A Comparison of Region-Based and Pixel-Based CEUS Kinetics Parameters in the Differentiation of Rheumatoid Arthritis and Simil-Rheumatoid Psoriatic Arthritis. <i>Annals of the Rheumatic Diseases</i> , 2014 , 73, 1115.2-1115	2.4	
10	SAT0175 Dynamic Automated Synovial Imaging (DASI) for Differentiating between Rheumatoid Arthritis and Simil-Rheumatoid Psoriatic Arthritis. <i>Annals of the Rheumatic Diseases</i> , 2014 , 73, 653.3-654	2.4	
9	A novel non-rigid registration algorithm for zebrafish larval images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 321-324	0.9	
8	FRI0477 Validity of contrast-enhanced ultrasound (CEUS) in the detection of synovial inflammation in rheumatoid arthritis compared to power doppler in contrast-enhanced mri controlled pilot study. <i>Annals of the Rheumatic Diseases</i> , 2013 , 72, A536.2-A536	2.4	
7	AB0716 Update of disease activity assessment in rheumatoid arthritis: comparison between clinical, ultrasound and mri scores and introduction of volumetric inflammation measure concept. <i>Annals of the Rheumatic Diseases</i> , 2013 , 72, A1006.3-A1006	2.4	
6	Aberration estimation from single point image in a simulated adaptive optics system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 3173-6		
5	An adaptive registration algorithm for zebrafish larval brain images.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 216, 106658	6.9	
4	Temporal Convolution Networks for Real-Time Abdominal Fetal Aorta Analysis with Ultrasound. <i>Lecture Notes in Computer Science</i> , 2018 , 148-157	0.9	
3	Laminar Organization and Projections of the Motor Cortex of the Sheep. <i>FASEB Journal</i> , 2019 , 33, 768.5	0.9	
2	Estimation of Real-Time Red Blood Cell Velocity in Conjunctival Vessels using a Modified Dynamic-Time-Warping Approach. <i>IFMBE Proceedings</i> , 2009 , 480-483	0.2	
1	Real-time diameter of the fetal aorta from ultrasound. <i>Neural Computing and Applications</i> , 2020 , 32, 6735-6744	6.744	