

# Pedro Serranho

## List of Publications by Year in descending order

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52  
papers

848  
citations

623574

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501076

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g-index

55  
all docs

55  
docs citations

55  
times ranked

825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Texture Analysis and Its Applications in Biomedical Imaging: A Survey. IEEE Reviews in Biomedical Engineering, 2022, 15, 222-246.	13.1	23
2	Shedding Light on Early Central Nervous System Changes for Alzheimer's Disease through the Retina: An Animal Study. , 2022, , .		2
3	Swept-source Phase-Stabilized Optical Coherence Tomography Setup for Elastography. , 2022, , .		4
4	On the Numerical Solution of the Inverse Elastography Problem for Time-harmonic Excitation. , 2022, , .		2
5	Longitudinal normative OCT retinal thickness data for wild-type mice, and characterization of changes in the 3xTg-AD mice model of Alzheimer's disease. Aging, 2021, 13, 9433-9454.	1.4	8
6	Sexual dimorphism of the adult human retina assessed by optical coherence tomography. Health and Technology, 2020, 10, 913-924.	2.1	3
7	Characterization of the retinal changes of the 3xTg-AD mouse model of Alzheimer's disease. Health and Technology, 2020, 10, 875-883.	2.1	4
8	Sexual Dimorphism of the Adult Human Retina Assessed by Optical Coherence Tomography. IFMBE Proceedings, 2020, , 1830-1834.	0.2	1
9	Characterization of the Retinal Changes of the 3xTg-AD Mouse Model of Alzheimer's Disease. IFMBE Proceedings, 2020, , 1816-1821.	0.2	0
10	The Method of Fundamental Solutions for the Direct Elastography Problem in the Human Retina. SEMA SIMAI Springer Series, 2020, , 87-101.	0.4	0
11	On the use of quasi-equidistant source points over the sphere surface for the method of fundamental solutions. Journal of Computational and Applied Mathematics, 2019, 359, 55-68.	1.1	5
12	Retinal Biomarkers of Alzheimer's Disease: Insights from Transgenic Mouse Models. Lecture Notes in Computer Science, 2017, , 541-550.	1.0	4
13	Simulation of cellular changes on Optical Coherence Tomography of human retina. , 2015, 2015, 8147-50.		5
14	Convergence of Finite Difference Schemes for Nonlinear Complex Reaction-Diffusion Processes. SIAM Journal on Numerical Analysis, 2015, 53, 228-250.	1.1	8
15	Maxwell's equations based 3D model of light scattering in the retina. , 2015, , .		3
16	Recurrence quantification analysis and support vector machines for golf handicap and low back pain EMG classification. Journal of Electromyography and Kinesiology, 2015, 25, 637-647.	0.7	33
17	Three-dimensional segmentation and reconstruction of the retinal vasculature from spectral-domain optical coherence tomography. Journal of Biomedical Optics, 2015, 20, 016006.	1.4	4
18	Stability of finite difference schemes for nonlinear complex reaction-diffusion processes. IMA Journal of Numerical Analysis, 2015, 35, 1381-1401.	1.5	5

#	ARTICLE	IF	CITATIONS
19	Applied Mathematics in Biomedical Sciences and Engineering 2014. Journal of Applied Mathematics, 2014, 2014, 1-2.	0.4	0
20	Monte Carlo simulation of diabetic macular edema changes on optical coherence tomography data. , 2014, , .		6
21	Ocular fundus reference images from optical coherence tomography. Computerized Medical Imaging and Graphics, 2014, 38, 381-389.	3.5	17
22	Two-dimensional segmentation of the retinal vascular network from optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 126011.	1.4	8
23	Explicit and Semi-implicit Complex-Diffusion Schemes for Optical Coherence Tomography Despeckling. Lecture Notes in Computer Science, 2013, , 282-289.	1.0	0
24	Fast fully-automated multimodal image co-registration (optical coherence tomography, colour) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.6	1
25	Enhanced 3D retinal vascular network reconstruction from high-definition SD-OCT. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
26	Non-invasive discrimination between perfused and occluded vessels by optical coherence tomography. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	1
27	Applied Mathematics in Biomedical Sciences and Engineering. Journal of Applied Mathematics, 2012, 2012, 1-3.	0.4	4
28	3D nonlinear complex-diffusion filter on GPU. , 2012, 2012, 110-3.		1
29	On the relevance of the 3D retinal vascular network from OCT data. Biometrical Letters, 2012, 49, 95-102.	0.4	1
30	Stability of Finite Difference Schemes for Complex Diffusion Processes. SIAM Journal on Numerical Analysis, 2012, 50, 1284-1296.	1.1	23
31	Segmentation processes and pattern recognition in retina and brain imaging. , 2012, , .		0
32	Validation of the automatic identification of eyes with diabetic retinopathy by OCT. , 2012, , .		3
33	Progressive changes in pneumococcal carriage in children attending daycare in Portugal after 6 years of gradual conjugate vaccine introduction show falls in most residual vaccine serotypes but no net replacement or trends in diversity. Vaccine, 2012, 30, 3951-3956.	1.7	23
34	Optical Coherence Tomography: A Concept Review. Biological and Medical Physics Series, 2012, , 139-156.	0.3	9
35	3D Retinal Vascular Network from Optical Coherence Tomography Data. Lecture Notes in Computer Science, 2012, , 339-346.	1.0	2
36	3D blood vessels segmentation from optical coherence tomography. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	4

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37	Optical Coherence Tomography ? Automatic Retina Classification Through Support Vector Machines. European Ophthalmic Review, 2012, 06, 200.	0.3	14
38	Vascular network of the human macula from OCT. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
39	Synthetic OCT data for image processing performance testing. , 2011, , .		12
40	Digital Ocular Fundus Imaging: A Review. Ophthalmologica, 2011, 226, 161-181.	1.0	161
41	Noninvasive Evaluation of Retinal Leakage Using Optical Coherence Tomography. Ophthalmologica, 2011, 226, 29-36.	1.0	18
42	Ocular fundus imaging: From structure to function. , 2011, , .		0
43	Bloodâ€retinal barrier function status from OCT data. Acta Ophthalmologica, 2011, 89, 0-0.	0.6	0
44	Huygensâ€™ principle and iterative methods in inverse obstacle scattering. Advances in Computational Mathematics, 2010, 33, 413-429.	0.8	44
45	Improved adaptive complex diffusion despeckling filter. Optics Express, 2010, 18, 24048.	1.7	140
46	Iterative and range test methods for an inverse source problem for acoustic waves. Inverse Problems, 2009, 25, 055005.	1.0	27
47	A hybrid method for sound-hard obstacle reconstruction. Journal of Computational and Applied Mathematics, 2007, 204, 418-427.	1.1	43
48	A hybrid method for inverse scattering for Sound-soft obstacles in R3. Inverse Problems and Imaging, 2007, 1, 691-712.	0.6	36
49	A hybrid method for inverse scattering for shape and impedance. Inverse Problems, 2006, 22, 663-680.	1.0	49
50	A hybrid method for two-dimensional crack reconstruction. Inverse Problems, 2005, 21, 773-784.	1.0	76
51	On the identification of the flatness of a sound-hard acoustic crack. Mathematics and Computers in Simulation, 2004, 66, 337-353.	2.4	6
52	Retinal Aging in 3Ã— Tg-AD Mice Model of Alzheimer's Disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	4