Philippe Delachartre

List of Publications by Year
in descending order

62 papers	**954** citations	516710 **16** h-index	501196 **28** g-index
65 all docs	**65** docs citations	**65** times ranked	**810** citing authors

#	Article	IF	Citations
1	Characterization of PVA cryogel for intravascular ultrasound elasticity imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1318-1324.	3.0	143
2	Application of texture image analysis for the classification of bovine meat. Food Chemistry, 2000, 69, 437-445.	8.2	71
3	Axial strain imaging of intravascular data: results on polyvinyl alcohol cryogel phantoms and carotid artery. Ultrasound in Medicine and Biology, 2001, 27, 1631-1642.	1.5	70
4	Axial Strain Imaging Using a Local Estimation of the Scaling Factor from RF Ultrasound Signals. Ultrasonic Imaging, 2000, 22, 95-107.	2.6	51
5	Phase-based block matching applied to motion estimation with unconventional beamforming strategies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 945-957.	3.0	46
6	Beamforming Scheme for 2D Displacement Estimation in Ultrasound Imaging. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	44
7	A method for vector displacement estimation with ultrasound imaging and its application for thyroid nodular disease. Medical Image Analysis, 2008, 12, 259-274.	11.6	41
8	PSF dedicated to estimation of displacement vectors for tissue elasticity imaging with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 746-756.	3.0	40
9	Investigation of PVA cryogel Young's modulus stability with time, controlled by a simple reliable technique. Medical Physics, 2009, 36, 656-661.	3.0	37
10	Analytic Estimation of Subsample Spatial Shift Using the Phases of Multidimensional Analytic Signals. IEEE Transactions on Image Processing, 2009, 18, 440-447.	9.8	26
11	Modeling geometric artefacts in intravascular ultrasound imaging. Ultrasound in Medicine and Biology, 1999, 25, 567-575.	1.5	24
12	Effects of muscle texture on ultrasonic measurements. Food Chemistry, 2000, 69, 447-455.	8.2	19
13	Hyperbolic Wavelet-Fisz Denoising for a Model Arising in Ultrasound Imaging. IEEE Transactions on Computational Imaging, 2017, 3, 1-10.	4.4	19
14	Joint segmentation and characterization of the dermis in 50 MHz ultrasound 2D and 3D images of the skin. Computers in Biology and Medicine, 2018, 103, 277-286.	7.0	19
15	Lateral RF image synthesis using a synthetic aperture imaging technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2097-2103.	3.0	18
16	Segmentation of Skin Tumors in High-Frequency 3-D Ultrasound Images. Ultrasound in Medicine and Biology, 2017, 43, 227-238.	1.5	17
17	Simulation based evaluation of cardiac motion estimation methods in tagged-MR Image sequences. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	14
18	Time-frequency representation of multicomponent chirp signals. Signal Processing, 1997, 56, 149-155.	3.7	13

#	ARTICLE	IF	CITATIONS
19	Parametric Deformable Block Matching for Ultrasound Imaging. , 2007, , .		12
20	Automatic Segmentation of the Cerebral Ventricle in Neonates Using Deep Learning with 3D Reconstructed Freehand Ultrasound Imaging. , 2018, , .		12
21	Hyperquaternions: A New Tool for Physics. Advances in Applied Clifford Algebras, 2018, 28, 1.	1.0	12
22	Investigating elastic properties of soft biological tissues. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 86-94.	0.8	11
23	Analysis of motion tracking in echocardiographic image sequences: Influence of system geometry and point-spread function. Ultrasonics, 2010, 50, 373-386.	3.9	11
24	Discrimination between emboli and artifacts for outpatient transcranial Doppler ultrasound data. Medical and Biological Engineering and Computing, 2017, 55, 1787-1797.	2.8	11
25	Lake–bottom recognition using a wideband sonar system and time–frequency analysis. Journal of the Acoustical Society of America, 1995, 98, 552-559.	1.1	10
26	Analytic signal phase-based myocardial motion estimation in tagged MRI sequences by a bilinear model and motion compensation. Medical Image Analysis, 2015, 24, 149-162.	11.6	10
27	Sequential Emboli Detection From Ultrasound Outpatient Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 334-341.	6.3	10
28	Estimation of Time-Scaling Factor for Ultrasound Medical Images Using the Hilbert Transform. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	9
29	A gradient-based optical-flow cardiac motion estimation method for cine and tagged MR images. Medical Image Analysis, 2019, 57, 136-148.	11.6	9
30	Two-dimensional least-squares estimation for motion tracking in ultrasound elastography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2155-8.	0.5	8
31	Ultrasound Image Sequence Registration and its Application for Thyroid Nodular Disease. Journal of Signal Processing Systems, 2009, 55, 127-137.	2.1	8
32	Estimation of cardiac motion in cine-MRI sequences by correlation transform optical flow of monogenic features distance. Physics in Medicine and Biology, 2016, 61, 8640-8663.	3.0	8
33	Direct estimation of the lateral strain field using a double oscillating point spread function with a scaling factor estimator. , 2004, , .		7
34	Blood flow evaluation in high-frequency, 40MHz imaging: A comparative study of four vector velocity estimation methods. Ultrasonics, 2010, 50, 683-690.	3.9	7
35	Motion estimation using the monogenic signal applied to ultrasound elastography. , 2010, 2010, 33-6.		7
36	Multi-Grid Phase Field Skin Tumor Segmentation in 3D Ultrasound Images. IEEE Transactions on Image Processing, 2019, 28, 3678-3687.	9.8	7

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#	Article	IF	Citations
37	Multiple Relaxation Time Lattice Boltzmann Models for Multigrid Phase-Field Segmentation of Tumors in 3D Ultrasound Images. SIAM Journal on Imaging Sciences, 2019, 12, 1324-1346.	2.2	6
38	Segmentation of neonates cerebral ventricles with 2D CNN in 3D US data: suitable training-set size and data augmentation strategies. , 2019, , .		5
39	Semi-automatic data annotation based on feature-space projection and local quality metrics: An application to cerebral emboli characterization. Medical Image Analysis, 2022, 79, 102437.	11.6	5
40	Segmentation of the lateral ventricles in 3D ultrasound images of the brain in neonates. , 2016, , .		4
41	Dual Hyperquaternion Poincaré Groups. Advances in Applied Clifford Algebras, 2021, 31, 1.	1.0	4
42	Static mechanical assessment of elastic Young's modulus of tissue mimicking materials used for medical imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3450-3.	0.5	3
43	A comparative study of four vector velocity estimation methods applied to flow imaging. Physics Procedia, 2010, 3, 225-233.	1.2	3
44	Internal strain estimation for quantification of human heel pad elastic modulus: A phantom study. Ultrasonics, 2013, 53, 439-446.	3.9	3
45	Vessel segmentation in high-frequency 2D/3D ultrasound images. , 2016, , .		3
46	Hyperquaternion Conformal Groups. Advances in Applied Clifford Algebras, 2021, 31, 1.	1.0	3
47	Differential Geometry Revisited by Biquaternion Clifford Algebra. Lecture Notes in Computer Science, 2015, , 216-242.	1.3	3
48	Multi-frame motion estimation for freehand elastography and its application to thyroid tumor imaging. , 2008, , .		2
49	Errata for "Phase-based block matching applied to motion estimation with unconventional beamforming strategies" [May 09 945-957]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1289-1289.	3.0	2
50	Micro-embolic signal characterization based on long time Doppler time-frequency image processing and statistics. , 2014, , .		2
51	Myocardial motion estimation using optical flow with multiple constraint equations. , 2014, , .		2
52	Multigrid level-set segmentation of high-frequency 3D ultrasound images using the Hellinger distance. , 2015, , .		2
53	Estimation de mouvement par décalage de phase et maillage déformable appliquée à des séquences cardiaques d'IRM marquées. Traitement Du Signal, 2011, 28, 643-663.	1.3	2
54	Motion estimation using prebeamformed ultrasound signals. , 2010, , .		1

#	Article	IF	Citations
55	Motion estimation in ultrasound imaging applied to the diagnostic of pelvic floor disorders. , 2011, 2011, 8058-61.		1
56	3-D biquaternionic analytic signal and application to envelope detection in 3-D ultrasound imaging. , 2012, , .		1
57	Time-frequency blood flow parameters estimation for micro-emboli detection. , 2015, , .		1
58	Ultrasound spatiotemporal despeckling via Kronecker wavelet-Fisz thresholding. Signal, Image and Video Processing, 2018, 12, 1125-1132.	2.7	1
59	Semi-supervised annotation of Transcranial Doppler ultrasound micro-embolic data. , 2021, , .		1
60	A 2D least square differentiation filter for tensorial elastography. , 2010, , .		0
61	3D Clifford Analytic Signal for 3D Envelope Detection on Ultrasound Volume. , 2021, , .		0
62	Quantitative Comparison of 3D Freehand Ultrasound and MRI Images of the Neonatal Brain. , 2020, , .		0