

Philippe Delachartre

List of Publications by Year in descending order

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62
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times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-automatic data annotation based on feature-space projection and local quality metrics: An application to cerebral emboli characterization. <i>Medical Image Analysis</i> , 2022, 79, 102437.	11.6	5
2	Dual Hyperquaternion Poincaré Groups. <i>Advances in Applied Clifford Algebras</i> , 2021, 31, 1.	1.0	4
3	Hyperquaternion Conformal Groups. <i>Advances in Applied Clifford Algebras</i> , 2021, 31, 1.	1.0	3
4	Semi-supervised annotation of Transcranial Doppler ultrasound micro-embolic data. , 2021, , .		1
5	3D Clifford Analytic Signal for 3D Envelope Detection on Ultrasound Volume. , 2021, , .		0
6	Quantitative Comparison of 3D Freehand Ultrasound and MRI Images of the Neonatal Brain. , 2020, , .		0
7	Multiple Relaxation Time Lattice Boltzmann Models for Multigrid Phase-Field Segmentation of Tumors in 3D Ultrasound Images. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1324-1346.	2.2	6
8	A gradient-based optical-flow cardiac motion estimation method for cine and tagged MR images. <i>Medical Image Analysis</i> , 2019, 57, 136-148.	11.6	9
9	Multi-Grid Phase Field Skin Tumor Segmentation in 3D Ultrasound Images. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 3678-3687.	9.8	7
10	Segmentation of neonates cerebral ventricles with 2D CNN in 3D US data: suitable training-set size and data augmentation strategies. , 2019, , .		5
11	Sequential Emboli Detection From Ultrasound Outpatient Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 334-341.	6.3	10
12	Ultrasound spatiotemporal despeckling via Kronecker wavelet-Fisz thresholding. <i>Signal, Image and Video Processing</i> , 2018, 12, 1125-1132.	2.7	1
13	Automatic Segmentation of the Cerebral Ventricle in Neonates Using Deep Learning with 3D Reconstructed Freehand Ultrasound Imaging. , 2018, , .		12
14	Joint segmentation and characterization of the dermis in 50â€”MHz ultrasound 2D and 3D images of the skin. <i>Computers in Biology and Medicine</i> , 2018, 103, 277-286.	7.0	19
15	Hyperquaternions: A New Tool for Physics. <i>Advances in Applied Clifford Algebras</i> , 2018, 28, 1.	1.0	12
16	Discrimination between emboli and artifacts for outpatient transcranial Doppler ultrasound data. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1787-1797.	2.8	11
17	Hyperbolic Wavelet-Fisz Denoising for a Model Arising in Ultrasound Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2017, 3, 1-10.	4.4	19
18	Segmentation of Skin Tumors in High-Frequency 3-D Ultrasound Images. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 227-238.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Segmentation of the lateral ventricles in 3D ultrasound images of the brain in neonates. , 2016, , .		4
20	Vessel segmentation in high-frequency 2D/3D ultrasound images. , 2016, , .		3
21	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
22	Time-frequency blood flow parameters estimation for micro-emboli detection. , 2015, , .		1
23	Multigrid level-set segmentation of high-frequency 3D ultrasound images using the Hellinger distance. , 2015, , .		2
24	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
25	Differential Geometry Revisited by Biquaternion Clifford Algebra. Lecture Notes in Computer Science, 2015, , 216-242.	1.3	3
26	Micro-embolic signal characterization based on long time Doppler time-frequency image processing and statistics. , 2014, , .		2
27	Myocardial motion estimation using optical flow with multiple constraint equations. , 2014, , .		2
28	Internal strain estimation for quantification of human heel pad elastic modulus: A phantom study. Ultrasonics, 2013, 53, 439-446.	3.9	3
29	3-D biquaternionic analytic signal and application to envelope detection in 3-D ultrasound imaging. , 2012, , .		1
30	Simulation based evaluation of cardiac motion estimation methods in tagged-MR Image sequences. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	14
31	Motion estimation in ultrasound imaging applied to the diagnostic of pelvic floor disorders. , 2011, 2011, 8058-61.		1
32	Estimation de mouvement par d'ajustement de phase et maillage d'adaptatif appliquée à des séquences cardiaques de MIRM marquées. Traitement Du Signal, 2011, 28, 643-663.	1.3	2
33	A comparative study of four vector velocity estimation methods applied to flow imaging. Physics Procedia, 2010, 3, 225-233.	1.2	3
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	A 2D least square differentiation filter for tensorial elastography. , 2010, , .		0
36	Motion estimation using prebeamformed ultrasound signals. , 2010, , .		1

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37	Analysis of motion tracking in echocardiographic image sequences: Influence of system geometry and point-spread function. Ultrasonics, 2010, 50, 373-386.	3.9	11
38	Motion estimation using the monogenic signal applied to ultrasound elastography. , 2010, 2010, 33-6.		7
39	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
40	Ultrasound Image Sequence Registration and its Application for Thyroid Nodular Disease. Journal of Signal Processing Systems, 2009, 55, 127-137.	2.1	8
41	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
42	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
43	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
44	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
45	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
46	Multi-frame motion estimation for freehand elastography and its application to thyroid tumor imaging. , 2008, , .		2
47	Parametric Deformable Block Matching for Ultrasound Imaging. , 2007, , .		12
48	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
49	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
50	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
51	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
52	Beamforming Scheme for 2D Displacement Estimation in Ultrasound Imaging. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	44
53	Direct estimation of the lateral strain field using a double oscillating point spread function with a scaling factor estimator. , 2004, , .		7
54	Characterization of PVA cryogel for intravascular ultrasound elasticity imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1318-1324.	3.0	143

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55	Investigating elastic properties of soft biological tissues. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 86-94.	0.8	11
56	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
57	Effects of muscle texture on ultrasonic measurements. Food Chemistry, 2000, 69, 447-455.	8.2	19
58	Application of texture image analysis for the classification of bovine meat. Food Chemistry, 2000, 69, 437-445.	8.2	71
59	Axial Strain Imaging Using a Local Estimation of the Scaling Factor from RF Ultrasound Signals. Ultrasonic Imaging, 2000, 22, 95-107.	2.6	51
60	Modeling geometric artefacts in intravascular ultrasound imaging. Ultrasound in Medicine and Biology, 1999, 25, 567-575.	1.5	24
61	Time-frequency representation of multicomponent chirp signals. Signal Processing, 1997, 56, 149-155.	3.7	13
62	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