

François Lauze

List of Publications by Year in descending order

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51
papers

1,037
citations

623188

14
h-index

476904

29
g-index

57
all docs

57
docs citations

57
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	Information-Theoretic Registration with Explicit Reorientation of Diffusion-Weighted Images. Journal of Mathematical Imaging and Vision, 2022, 64, 1-16.	0.8	0
2	Bundle Geodesic Convolutional Neural Network for DWI Segmentation from Single Scan Learning. Lecture Notes in Computer Science, 2021, , 121-132.	1.0	0
3	Segmentation of 2D and 3D Objects with Intrinsically Similarity Invariant Shape Regularisers. Lecture Notes in Computer Science, 2019, , 369-380.	1.0	0
4	Guest Editorial: Scale Space and Variational Methods. Journal of Mathematical Imaging and Vision, 2018, 60, 1367-1368.	0.8	0
5	LED-Based Photometric Stereo: Modeling, Calibration and Numerical Solution. Journal of Mathematical Imaging and Vision, 2018, 60, 313-340.	0.8	50
6	A Non-convex Variational Approach to Photometric Stereo under Inaccurate Lighting. , 2017, , .		42
7	Simultaneous Reconstruction and Segmentation of CT Scans with Shadowed Data. Lecture Notes in Computer Science, 2017, , 308-319.	1.0	7
8	Rotationally invariant clustering of diffusion MRI data using spherical harmonics. , 2016, , .		0
9	Geodesic exponential kernels: When curvature and linearity conflict. , 2015, , .		46
10	Automatic correction of dental artifacts in PET/MRI. Journal of Medical Imaging, 2015, 2, 024009.	0.8	8
11	Dental artifacts in the head and neck region: implications for Dixon-based attenuation correction in PET/MR. EJNMMI Physics, 2015, 2, 8.	1.3	18
12	Solving Uncalibrated Photometric Stereo Using Total Variation. Journal of Mathematical Imaging and Vision, 2015, 52, 87-107.	0.8	23
13	Locally Orderless Registration for Diffusion Weighted Images. Lecture Notes in Computer Science, 2015, , 305-312.	1.0	5
14	Correction of dental artifacts within the anatomical surface in PET/MRI using active shape models and k-nearest-neighbors. Proceedings of SPIE, 2014, , .	0.8	1
15	Geometry and Statistics: Manifolds and Stratified Spaces. Journal of Mathematical Imaging and Vision, 2014, 50, 1.	0.8	1
16	Sparse Multi-Scale Diffeomorphic Registration: The Kernel Bundle Framework. Journal of Mathematical Imaging and Vision, 2013, 46, 292-308.	0.8	36
17	Unscented Kalman Filtering on Riemannian Manifolds. Journal of Mathematical Imaging and Vision, 2013, 46, 103-120.	0.8	65
18	Deep Feature Learning for Knee Cartilage Segmentation Using a Triplanar Convolutional Neural Network. Lecture Notes in Computer Science, 2013, 16, 246-253.	1.0	332

#	ARTICLE	IF	CITATIONS
19	Toward a Theory of Statistical Tree-Shape Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2008-2021.	9.7	39
20	On the bayesian reconstruction method for randomly oriented particles in cryo-EM. , 2013, , .		0
21	Femoral cartilage segmentation in Knee MRI scans using two stage voxel classification. , 2013, 2013, 5469-72.		7
22	Solving the Uncalibrated Photometric Stereo Problem Using Total Variation. Lecture Notes in Computer Science, 2013, , 270-281.	1.0	4
23	Cascaded classifier for large-scale data applied to automatic segmentation of articular cartilage. Proceedings of SPIE, 2012, , .	0.8	3
24	Kernel Bundle EPDiff: Evolution Equations for Multi-scale Diffeomorphic Image Registration. Lecture Notes in Computer Science, 2012, , 677-688.	1.0	7
25	Multi-hypothesis transform domain Wyner-Ziv video coding including optical flow. , 2011, , .		21
26	Exploring the representation capabilities of the HOG descriptor. , 2011, , .		9
27	Video Super-Resolution Using Simultaneous Motion and Intensity Calculations. IEEE Transactions on Image Processing, 2011, 20, 1870-1884.	6.0	24
28	Variational Multi-Valued Velocity Field Estimation for Transparent Sequences. Journal of Mathematical Imaging and Vision, 2011, 40, 285-304.	0.8	2
29	Towards exaggerated image stereotypes. , 2011, , .		1
30	Means in spaces of tree-like shapes. , 2011, , .		20
31	Geometries on Spaces of Treelike Shapes. Lecture Notes in Computer Science, 2011, , 160-173.	1.0	15
32	A Multi-scale Kernel Bundle for LDDMM: Towards Sparse Deformation Description across Space and Scales. Lecture Notes in Computer Science, 2011, 22, 624-635.	1.0	22
33	On Restricting Planar Curve Evolution to Finite Dimensional Implicit Subspaces with Non-Euclidean Metric. Journal of Mathematical Imaging and Vision, 2010, 38, 226-240.	0.8	1
34	Distribution, size, shape, growth potential and extent of abdominal aortic calcified deposits predict mortality in postmenopausal women. BMC Cardiovascular Disorders, 2010, 10, 56.	0.7	11
35	Fundamental Geodesic Deformations in Spaces of Treelike Shapes. , 2010, , .		3
36	The Improbability of Harris Interest Points. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1141-1147.	9.7	31

#	ARTICLE	IF	CITATIONS
37	Temporal Super Resolution Using Variational Methods. Signals and Communication Technology, 2010, , 275-296.	0.4	7
38	Manifold Valued Statistics, Exact Principal Geodesic Analysis and the Effect of Linear Approximations. Lecture Notes in Computer Science, 2010, , 43-56.	1.0	39
39	Bicycle chain shape models. , 2009, , .		7
40	Bicycle chain shape models. , 2009, , .		2
41	On the Rate of Structural Change in Scale Spaces. Lecture Notes in Computer Science, 2009, , 832-843.	1.0	1
42	From Inpainting to Active Contours. International Journal of Computer Vision, 2008, 79, 31-43.	10.9	4
43	A variational method for automatic localization of the most pathological ROI in the knee cartilage. Proceedings of SPIE, 2008, , .	0.8	3
44	Deinterlacing Using Variational Methods. IEEE Transactions on Image Processing, 2008, 17, 2015-2028.	6.0	28
45	A Variational Approach for Multi-valued Velocity Field Estimation in Transparent Sequences. , 2007, , 227-238.		4
46	Toward automated detection and segmentation of aortic calcifications from radiographs. , 2007, , .		3
47	A Family of Principal Component Analyses for Dealing with Outliers. Lecture Notes in Computer Science, 2007, 10, 178-185.	1.0	5
48	A pixelwise inpainting-based refinement scheme for quantizing calcification in the lumbar aorta on 2D lateral x-ray images. , 2006, 6144, 474.		1
49	Quantizing calcification in the lumbar aorta on 2-D lateral x-ray images. , 2005, 5747, 1341.		1
50	From Inpainting to Active Contours. Lecture Notes in Computer Science, 2005, , 97-108.	1.0	1
51	Rang maximal pour \mathbb{P}^n . Manuscripta Mathematica, 1997, 92, 525-543.	0.3	3