

Eric Klassen

List of Publications by Year in descending order

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37
papers

2,014
citations

471509

17
h-index

477307

29
g-index

38
all docs

38
docs citations

38
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	The Square Root Normal Field Distance and Unbalanced Optimal Transport. Applied Mathematics and Optimization, 2022, 85, 1.	1.6	9
2	A diffeomorphism-invariant metric on the space of vector-valued one-forms. Pure and Applied Mathematics Quarterly, 2021, 17, 141-183.	0.4	1
3	Intrinsic Riemannian Metrics on Spaces of Curves: Theory and Computation. , 2021, , 1-35.		1
4	Supervised deep learning of elastic SRV distances on the shape space of curves. , 2021, , .		2
5	Simplifying Transformations for a Family of Elastic Metrics on the Space of Surfaces. , 2020, , .		2
6	Shape Analysis of Surfaces Using General Elastic Metrics. Journal of Mathematical Imaging and Vision, 2020, 62, 1087-1106.	1.3	12
7	Closed surfaces with different shapes that are indistinguishable by the SRNF. Archivum Mathematicum, 2020, , 107-114.	0.3	4
8	Robust Comparison of Kernel Densities on Spherical Domains. Sankhya A, 2019, 81, 144-171.	0.8	6
9	Phase-Amplitude Separation and Modeling of Spherical Trajectories. Journal of Computational and Graphical Statistics, 2018, 27, 85-97.	1.7	16
10	Rate-Invariant Analysis of Covariance Trajectories. Journal of Mathematical Imaging and Vision, 2018, 60, 1306-1323.	1.3	17
11	Statistical shape analysis of simplified neuronal trees. Annals of Applied Statistics, 2018, 12, .	1.1	14
12	Comparing curves in homogeneous spaces. Differential Geometry and Its Applications, 2018, 60, 9-32.	0.5	8
13	The Square Root Velocity Framework for Curves in a Homogeneous Space. , 2017, , .		5
14	Elastic Shape Analysis of Surfaces and Images. , 2016, , 257-277.		4
15	Precise matching of PL curves in \mathbb{R}^N in the square root velocity framework. Geometry Imaging and Computing, 2015, 2, 133-186.	0.8	35
16	Spherical Regression Models Using Projective Linear Transformations. Journal of the American Statistical Association, 2014, 109, 1615-1624.	3.1	21
17	Statistical analysis of trajectories on Riemannian manifolds: Bird migration, hurricane tracking and video surveillance. Annals of Applied Statistics, 2014, 8, .	1.1	89
18	Gaussian Blurring-Invariant Comparison of Signals and Images. IEEE Transactions on Image Processing, 2013, 22, 3145-3157.	9.8	27

#	ARTICLE	IF	CITATIONS
19	RNA global alignment in the joint sequence-structure space using elastic shape analysis. <i>Nucleic Acids Research</i> , 2013, 41, e114-e114.	14.5	14
20	Landmark-Guided Elastic Shape Analysis of Spherically-Parameterized Surfaces. <i>Computer Graphics Forum</i> , 2013, 32, 429-438.	3.0	54
21	Elastic Geodesic Paths in Shape Space of Parameterized Surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012, 34, 1717-1730.	13.9	73
22	Statistical Modeling of Curves Using Shapes and Related Features. <i>Journal of the American Statistical Association</i> , 2012, 107, 1152-1165.	3.1	81
23	Affine-invariant, elastic shape analysis of planar contours. , 2012, , .		14
24	A Gradient-Descent Method for Curve Fitting on Riemannian Manifolds. <i>Foundations of Computational Mathematics</i> , 2012, 12, 49-73.	2.5	57
25	Elastic Shape Matching of Parameterized Surfaces Using Square Root Normal Fields. <i>Lecture Notes in Computer Science</i> , 2012, , 804-817.	1.3	53
26	Shape Analysis of Elastic Curves in Euclidean Spaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011, 33, 1415-1428.	13.9	475
27	Parameterization-Invariant Shape Comparisons of Anatomical Surfaces. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 849-858.	8.9	72
28	Parameterization-Invariant Shape Statistics and Probabilistic Classification of Anatomical Surfaces. <i>Lecture Notes in Computer Science</i> , 2011, 22, 147-158.	1.3	24
29	A novel riemannian framework for shape analysis of 3D objects. , 2010, , .		48
30	An Intrinsic Framework for Analysis of Facial Surfaces. <i>International Journal of Computer Vision</i> , 2009, 82, 80-95.	15.6	77
31	Joint shape and texture analysis of objects boundaries in images using a Riemannian approach. , 2008, , .		2
32	A Novel Representation for Riemannian Analysis of Elastic Curves in R^n . , 2007, 2007, 1-7.		154
33	Removing Shape-Preserving Transformations in Square-Root Elastic (SRE) Framework for Shape Analysis of Curves. <i>Lecture Notes in Computer Science</i> , 2007, 4679, 387-398.	1.3	47
34	Geodesics Between 3D Closed Curves Using Path-Straightening. <i>Lecture Notes in Computer Science</i> , 2006, , 95-106.	1.3	43
35	Analysis of planar shapes using geodesic paths on shape spaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004, 26, 372-383.	13.9	383
36	Splitting the spectral flow and the Alexander matrix. <i>Commentarii Mathematici Helvetici</i> , 1994, 69, 375-416.	0.7	17

#	ARTICLE	IF	CITATIONS
37	Chern-Simons invariants of 3-manifolds decomposed along tori and the circle bundle over the representation space of T . Communications in Mathematical Physics, 1993, 153, 521-557.	2.2	51