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List of Publications by Year in descending order

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43
all docs

43
docs citations

43
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamic interpolation problem: On Riemannian manifolds, Lie groups, and symmetric spaces. Journal of Dynamical and Control Systems, 1995, 1, 177-202.	0.8	161
2	Splines of class C_k on non-euclidean spaces. IMA Journal of Mathematical Control and Information, 1995, 12, 399-410.	1.7	82
3	The De Casteljau Algorithm on Lie Groups and Spheres. Journal of Dynamical and Control Systems, 1999, 5, 397-429.	0.8	78
4	On the geometry of Riemannian cubic polynomials. Differential Geometry and Its Applications, 2001, 15, 107-135.	0.5	50
5	On the Geometry of Rolling and Interpolation Curves on S^n , SO^n , and Grassmann Manifolds. Journal of Dynamical and Control Systems, 2007, 13, 467-502.	0.8	48
6	Higher-order smoothing splines versus least squares problems on Riemannian manifolds. Journal of Dynamical and Control Systems, 2010, 16, 121-148.	0.8	44
7	Geometry and the Dynamic Interpolation Problem. , 1991, , .		41
8	Elastic Curves as Solutions of Riemannian and Sub-Riemannian Control Problems. Mathematics of Control, Signals, and Systems, 2000, 13, 140-155.	2.3	33
9	Geometric mean and geodesic regression on Grassmannians. Linear Algebra and Its Applications, 2015, 466, 83-101.	0.9	29
10	An intrinsic formulation of the problem on rolling manifolds. Journal of Dynamical and Control Systems, 2012, 18, 181-214.	0.8	20
11	A two-step algorithm of smooth spline generation on Riemannian manifolds. Journal of Computational and Applied Mathematics, 2006, 194, 177-191.	2.0	18
12	The Moser-Veselov equation. Linear Algebra and Its Applications, 2003, 360, 237-248.	0.9	17
13	Rolling Stiefel manifolds. International Journal of Systems Science, 2008, 39, 881-887.	5.5	17
14	Exponentials of skew-symmetric matrices and logarithms of orthogonal matrices. Journal of Computational and Applied Mathematics, 2010, 233, 2867-2875.	2.0	17
15	A modified Casteljau algorithm to solve interpolation problems on Stiefel manifolds. Journal of Computational and Applied Mathematics, 2017, 311, 84-99.	2.0	17
16	Theoretical and numerical considerations about Padé approximants for the matrix logarithm. Linear Algebra and Its Applications, 2001, 330, 31-42.	0.9	16
17	On the uniform finite generation of $SO(n, \mathbb{R})$. Systems and Control Letters, 1983, 2, 341-347.	2.3	14
18	Closed forms for the exponential mapping on matrix Lie groups based on Putzer's method. Journal of Mathematical Physics, 1999, 40, 3561-3568.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Computing the square root and logarithm of a real P-orthogonal matrix. Applied Numerical Mathematics, 2003, 46, 173-196.	2.1	12
20	A New Geometric Algorithm to Generate Smooth Interpolating Curves on Riemannian Manifolds. LMS Journal of Computation and Mathematics, 2005, 8, 251-266.	0.9	12
21	Uniform controllable sets of left-invariant vector fields on compact Lie groups. Systems and Control Letters, 1986, 6, 329-335.	2.3	10
22	Riemannian Means as Solutions of Variational Problems. LMS Journal of Computation and Mathematics, 2006, 9, 86-103.	0.9	10
23	PadÃ© and Gregory error estimates for the logarithm of block triangular matrices. Applied Numerical Mathematics, 2006, 56, 253-267.	2.1	10
24	Kinematics for rolling a Lorentzian sphere. , 2011, , .		9
25	Bounds on the Order of Generation of $\{f SO(n,R)\}$ by One-Parameter Subgroups. Rocky Mountain Journal of Mathematics, 1991, 21, .	0.4	9
26	Uniform controllable sets of left-invariant vector fields on noncompact Lie groups. Systems and Control Letters, 1986, 7, 213-216.	2.3	6
27	Pairs of generators for compact real forms of the classical Lie algebras. Linear Algebra and Its Applications, 1989, 121, 123-133.	0.9	6
28	The geometry of hypercomplex matrices. Linear and Multilinear Algebra, 1993, 34, 123-132.	1.0	6
29	Hamiltonian Structure of Generalized Cubic Polynomials. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 13-18.	0.4	6
30	Extremal Curves on Stiefel and Grassmann Manifolds. Journal of Geometric Analysis, 2020, 30, 3948-3978.	1.0	5
31	Sphere Rolling on Sphere: Alternative Approach to Kinematics and Constructive Proof of Controllability. CIM Series in Mathematical Sciences, 2015, , 341-356.	0.4	5
32	Rolling Maps for the Essential Manifold. CIM Series in Mathematical Sciences, 2015, , 399-415.	0.4	4
33	On the generators of semisimple Lie algebras. Linear Algebra and Its Applications, 1989, 119, 51-56.	0.9	3
34	An Exponential Observer for Systems on SE(3) with Implicit Outputs. Springer Proceedings in Mathematics, 2011, , 611-633.	0.5	3
35	Interpolation and polynomial fitting in the SPD manifold. , 2013, , .		3
36	Computing the Inverse Matrix Hyperbolic Sine. Lecture Notes in Computer Science, 2001, , 160-169.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Geometric Splines and Interpolation on S ² : Numerical Experiments. , 2006, , .		2
38	Spin systems and minimal switching decompositions. , 0, , .		1
39	Approximating Sets of Symmetric and Positive-Definite Matrices by Geodesics. Conference Papers in Mathematics, 2013, 2013, 1-7.	0.5	1
40	Controllability and Graphs. , 1991, , 668-675.		1
41	INTERPOLATION PROBLEMS ON RIEMANNIAN MANIFOLDS - A GEOMETRIC APPROACH -. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 822-827.	0.4	0
42	The geometry of rolling maps. , 2009, , .		0
43	Complete Nonholonomy of the Rolling Ellipsoid - A Constructive Proof. Springer Proceedings in Mathematics and Statistics, 2018, , 387-401.	0.2	0