P-A Absil

List of Publications by Year in descending order

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1				257450	2	214800
ı	65		3,477	24		47
ı	papers		citations	h-index		g-index
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		1				
	65		65	65		2033
	all docs		docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Optimization Algorithms on Matrix Manifolds. , 2008, , .		1,058
2	Trust-Region Methods on Riemannian Manifolds. Foundations of Computational Mathematics, 2007, 7, 303-330.	2.5	272
3	Riemannian Geometry of Grassmann Manifolds with a View on Algorithmic Computation. Acta Applicandae Mathematicae, 2004, 80, 199-220.	1.0	241
4	Projection-like Retractions on Matrix Manifolds. SIAM Journal on Optimization, 2012, 22, 135-158.	2.0	161
5	<pre><mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow></mml:msub><model 1267-1273.<="" 2008,="" 21,="" applied="" letters,="" mathematics="" mimo="" of="" pre="" reduction="" systems.=""></model></mml:math></pre>	<td>th>-optimal</td>	th>-optimal
6	Low-Rank Optimization on the Cone of Positive Semidefinite Matrices. SIAM Journal on Optimization, 2010, 20, 2327-2351.	2.0	117
7	Two algorithms for orthogonal nonnegative matrix factorization with application to clustering. Neurocomputing, 2014, 141, 15-25.	5.9	111
8	A Broyden Class of Quasi-Newton Methods for Riemannian Optimization. SIAM Journal on Optimization, 2015, 25, 1660-1685.	2.0	104
9	Global rates of convergence for nonconvex optimization on manifolds. IMA Journal of Numerical Analysis, 2019, 39, 1-33.	2.9	103
10	On the stable equilibrium points of gradient systems. Systems and Control Letters, 2006, 55, 573-577.	2.3	96
11	Best Low Multilinear Rank Approximation of Higher-Order Tensors, Based on the Riemannian Trust-Region Scheme. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 115-135.	1.4	81
12	Low-rank matrix completion via preconditioned optimization on the Grassmann manifold. Linear Algebra and Its Applications, 2015, 475, 200-239.	0.9	58
13	A Gradient-Descent Method for Curve Fitting on Riemannian Manifolds. Foundations of Computational Mathematics, 2012, 12, 49-73.	2.5	57
14	Differential-geometric Newton method for the best rank-(R 1 , R 2 , R 3) approximation of tensors. Numerical Algorithms, 2009, 51 , $179-194$.	1.9	47
15	On the largest principal angle between random subspaces. Linear Algebra and Its Applications, 2006, 414, 288-294.	0.9	45
16	A Riemannian symmetric rank-one trust-region method. Mathematical Programming, 2015, 150, 179-216.	2.4	45
17	Jacobi Algorithm for the Best Low Multilinear Rank Approximation of Symmetric Tensors. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 651-672.	1.4	38
18	Robust Low-Rank Matrix Completion by Riemannian Optimization. SIAM Journal of Scientific Computing, 2016, 38, S440-S460.	2.8	34

#	Article	IF	Citations
19	Quotient Geometry with Simple Geodesics for the Manifold of Fixed-Rank Positive-Semidefinite Matrices. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 171-198.	1.4	33
20	Joint Diagonalization on the Oblique Manifold for Independent Component Analysis. , 0, , .		32
21	\$mathcal{H}_2\$-Optimal Model Reduction with Higher-Order Poles. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 2738-2753.	1.4	32
22	A Riemannian BFGS Method Without Differentiated Retraction for Nonconvex Optimization Problems. SIAM Journal on Optimization, 2018, 28, 470-495.	2.0	32
23	Low-rank retractions: a survey and new results. Computational Optimization and Applications, 2015, 62, 5-29.	1.6	31
24	A truncated-CG style method for symmetric generalized eigenvalue problems. Journal of Computational and Applied Mathematics, 2006, 189, 274-285.	2.0	29
25	An implicit trust-region method on Riemannian manifolds. IMA Journal of Numerical Analysis, 2008, 28, 665-689.	2.9	27
26	A Riemannian subgradient algorithm for economic dispatch with valve-point effect. Journal of Computational and Applied Mathematics, 2014, 255, 848-866.	2.0	26
27	A discrete regression method on manifolds and its application to data on SO(n). IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2284-2289.	0.4	25
28	Newton-KKT interior-point methods for indefinite quadratic programming. Computational Optimization and Applications, 2007, 36, 5-41.	1.6	23
29	Intrinsic representation of tangent vectors and vector transports on matrix manifolds. Numerische Mathematik, 2017, 136, 523-543.	1.9	22
30	ROPTLIB. ACM Transactions on Mathematical Software, 2018, 44, 1-21.	2.9	22
31	Data Fitting on Manifolds with Composite BÃ $@$ zier-Like Curves and Blended Cubic Splines. Journal of Mathematical Imaging and Vision, 2019, 61, 645-671.	1.3	22
32	A Geometric Newton Method for Oja's Vector Field. Neural Computation, 2009, 21, 1415-1433.	2.2	21
33	Robust estimation of rotations from relative measurements by maximum likelihood., 2013,,.		21
34	Accelerated Line-search and Trust-region Methods. SIAM Journal on Numerical Analysis, 2009, 47, 997-1018.	2.3	19
35	Differentiable Piecewise-Bézier Surfaces on Riemannian Manifolds. SIAM Journal on Imaging Sciences, 2016, 9, 1788-1828.	2.2	19
36	Riemannian BFGS Algorithm with Applications. , 2010, , 183-192.		19

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37	Spherical Mesh Adaptive Direct Search for Separating Quasi-Uncorrelated Sources by Range-Based Independent Component Analysis. Neural Computation, 2013, 25, 2486-2522.	2.2	18
38	Two Newton methods on the manifold of fixed-rank matrices endowed with Riemannian quotient geometries. Computational Statistics, 2014, 29, 569-590.	1.5	17
39	A Collection of Nonsmooth Riemannian Optimization Problems. International Series of Numerical Mathematics, 2019, , 1-15.	1.1	17
40	Riemannian Optimization on the Symplectic Stiefel Manifold. SIAM Journal on Optimization, 2021, 31, 1546-1575.	2.0	17
41	On the Best Low Multilinear Rank Approximation of Higher-order Tensors*. , 2010, , 145-164.		16
42	A Riemannian Limited-Memory BFGS Algorithm for Computing the Matrix Geometric Mean. Procedia Computer Science, 2016, 80, 2147-2157.	2.0	16
43	A Riemannian rank-adaptive method for low-rank matrix completion. Computational Optimization and Applications, 2022, 81, 67-90.	1.6	15
44	Optimization On Manifolds: Methods and Applications. , 2010, , 125-144.		14
45	Continuous dynamical systems that realize discrete optimization on the hypercube. Systems and Control Letters, 2004, 52, 297-304.	2.3	10
46	Tucker compression and local optima. Chemometrics and Intelligent Laboratory Systems, 2011, 106, 57-64.	3.5	10
47	A Riemannian BFGS Method for Nonconvex Optimization Problems. Lecture Notes in Computational Science and Engineering, 2016, , 627-634.	0.3	10
48	Curvature of the Manifold of Fixed-Rank Positive-Semidefinite Matrices Endowed with the Buresâ€"Wasserstein Metric. Lecture Notes in Computer Science, 2019, , 739-748.	1.3	8
49	A convex formulation for informed source separation in the single channel setting. Neurocomputing, 2014, 141, 26-36.	5.9	7
50	Computing Symplectic Eigenpairs of Symmetric Positive-Definite Matrices via Trace Minimization and Riemannian Optimization. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 1732-1757.	1.4	7
51	Two-sided Grassmann–Rayleigh quotient iteration. Numerische Mathematik, 2010, 114, 549-571.	1.9	6
52	Matrix geometric means based on shuffled inductive sequences. Linear Algebra and Its Applications, 2018, 542, 334-359.	0.9	6
53	Global Solution of Economic Dispatch with Valve Point Effects and Transmission Constraints. Electric Power Systems Research, 2020, 189, 106786.	3.6	5
54	Variable Projection Applied to Block Term Decomposition of Higher-Order Tensors. Lecture Notes in Computer Science, 2018, , 139-148.	1.3	5

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55	Computing the matrix geometric mean: Riemannian versus Euclidean conditioning, implementation techniques, and a Riemannian BFGS method. Numerical Linear Algebra With Applications, 2020, 27, e2321.	1.6	4
56	Riemannian gradient descent methods for graph-regularized matrix completion. Linear Algebra and Its Applications, 2021, 623, 193-235.	0.9	4
57	A Riemannian Dennis-Moré Condition. , 2012, , 281-293.		4
58	New relations between norms of system transfer functions. Systems and Control Letters, 2011, 60, 151-155.	2.3	2
59	A Riemannian approach for computing geodesies in elastic shape analysis. , 2015, , .		2
60	MILP-Based Algorithm for the Global Solution of Dynamic Economic Dispatch Problems with Valve-Point Effects. , 2019, , .		2
61	Solving non-convex economic dispatch with valve-point effects and losses with guaranteed accuracy. International Journal of Electrical Power and Energy Systems, 2022, 134, 107143.	5.5	2
62	On the Quality of First-Order Approximation of Functions with HÃ \P lder Continuous Gradient. Journal of Optimization Theory and Applications, 2020, 185, 17-33.	1.5	1
63	Geometry of the Symplectic Stiefel Manifold Endowed with the Euclidean Metric. Lecture Notes in Computer Science, 2021, , 789-796.	1.3	1
64	Fast Method to Fit a $\mbox{mathcal } \{C\}^1$ Piecewise-Bézier Function to Manifold-Valued Data Points: HowÂSuboptimal is the Curve Obtained on theÂSphere $\mbox{mathbb } \{S\}^2$. Lecture Notes in Computer Science, 2017, , 595-603.	1.3	0
65	Low-rank multi-parametric covariance identification. BIT Numerical Mathematics, 0, , 1.	2.0	O