

Nick Vannieuwenhoven

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

552
citations

933447

10
h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

384
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Truncation Strategy for the Higher-Order Singular Value Decomposition. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A1027-A1052.	2.8	153
2	An Algorithm For Generic and Low-Rank Specific Identifiability of Complex Tensors. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014, 35, 1265-1287.	1.4	143
3	Effective Criteria for Specific Identifiability of Tensors and Forms. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2017, 38, 656-681.	1.4	45
4	On generic identifiability of symmetric tensors of subgeneric rank. <i>Transactions of the American Mathematical Society</i> , 2017, 369, 4021-4042.	0.9	44
5	The Condition Number of Join Decompositions. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018, 39, 287-309.	1.4	24
6	Computing the Gradient in Optimization Algorithms for the CP Decomposition in Constant Memory through Tensor Blocking. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, C415-C438.	2.8	21
7	A Riemannian Trust Region Method for the Canonical Tensor Rank Approximation Problem. <i>SIAM Journal on Optimization</i> , 2018, 28, 2435-2465.	2.0	20
8	Condition numbers for the tensor rank decomposition. <i>Linear Algebra and Its Applications</i> , 2017, 535, 35-86.	0.9	19
9	Pencil-Based Algorithms for Tensor Rank Decomposition are not Stable. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019, 40, 739-773.	1.4	17
10	On Generic Nonexistence of the Schmidt–Eckart–Young Decomposition for Complex Tensors. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014, 35, 886-903.	1.4	15
11	IMF: An Incomplete Multifrontal LU -Factorization for Element-Structured Sparse Linear Systems. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A270-A293.	2.8	10
12	Most secant varieties of tangential varieties to Veronese varieties are nondefective. <i>Transactions of the American Mathematical Society</i> , 2018, 370, 393-420.	0.9	10
13	Convergence analysis of Riemannian Gauss–Newton methods and its connection with the geometric condition number. <i>Applied Mathematics Letters</i> , 2018, 78, 42-50.	2.7	10
14	Identifiability beyond Kruskal’s bound for symmetric tensors of degree 4. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2018, 29, 465-485.	0.6	7
15	The Condition Number of Riemannian Approximation Problems. <i>SIAM Journal on Optimization</i> , 2021, 31, 1049-1077.	2.0	7
16	A randomized algorithm for testing nonsingularity of structured matrices with an application to asserting nondefectivity of Segre varieties. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 289-324.	2.9	3
17	On the average condition number of tensor rank decompositions. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 1908-1936.	2.9	3
18	All secant varieties of the Chow variety are nondefective for cubics and quaternary forms. <i>Transactions of the American Mathematical Society</i> , 2021, 374, 4815-4838.	0.9	1

#	ARTICLE	IF	CITATIONS
19	An Element-by-Element Multilevel Block ILU Preconditioner Using GLAS. , 2010, , .		0
20	Analyzing Soccer Playersâ€™ Skill Ratings Over Time Using Tensor-Based Methods. Communications in Computer and Information Science, 2020, , 225-234.	0.5	0
21	The Average Condition Number of Most Tensor Rank Decomposition Problems is Infinite. Foundations of Computational Mathematics, 2023, 23, 433-491.	2.5	0
22	Tensor completion using geodesics on Segre manifolds. Numerical Linear Algebra With Applications, 2022, 29, .	1.6	0
23	Almost all subgeneric third-order Chow decompositions are identifiable. Annali Di Matematica Pura Ed Applicata, 0, , .	1.0	0