

Eric Schost

List of Publications by Year in descending order

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71
papers

972
citations

430874

18
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526287

27
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times ranked

245
citing authors

#	ARTICLE	IF	CITATIONS
1	Drinfeld modules with complex multiplication, Hasse invariants and factoring polynomials over finite fields. <i>Journal of Symbolic Computation</i> , 2021, 105, 199-213.	0.8	2
2	Solving determinantal systems using homotopy techniques. <i>Journal of Symbolic Computation</i> , 2021, 104, 754-804.	0.8	6
3	Subquadratic-Time Algorithms for Normal Bases. <i>Computational Complexity</i> , 2021, 30, 1.	0.3	1
4	Algorithms for Linearly Recurrent Sequences of Truncated Polynomials. , 2021, , .		1
5	Sparse Multiplication of Multivariate Linear Differential Operators. , 2021, , .		1
6	Homotopy techniques for solving sparse column support determinantal polynomial systems. <i>Journal of Complexity</i> , 2021, 66, 101557.	1.3	4
7	Block-Krylov techniques in the context of sparse-FGLM algorithms. <i>Journal of Symbolic Computation</i> , 2020, 98, 163-191.	0.8	3
8	Computing syzygies in finite dimension using fast linear algebra. <i>Journal of Complexity</i> , 2020, 60, 101502.	1.3	7
9	Algebraic construction of quasi-split algebraic tori. <i>Journal of Algebra and Its Applications</i> , 2020, 19, 2050206.	0.4	1
10	On the bit complexity of finding points in connected components of a smooth real hypersurface. , 2020, , .		2
11	Change of Basis for m-primary Ideals in One and Two Variables. , 2019, , .		2
12	Computing the Characteristic Polynomial of a Finite Rank Two Drinfeld Module. , 2019, , .		2
13	Quadratic-Time Algorithms for Normal Elements. , 2019, , .		1
14	Implementations of Efficient Univariate Polynomial Matrix Algorithms and Application to Bivariate Resultants. , 2019, , .		5
15	Bit complexity for multi-homogeneous polynomial system solving – Application to polynomial minimization. <i>Journal of Symbolic Computation</i> , 2018, 87, 176-206.	0.8	17
16	On semiring complexity of Schur polynomials. <i>Computational Complexity</i> , 2018, 27, 595-616.	0.3	1
17	Computing minimal interpolation bases. <i>Journal of Symbolic Computation</i> , 2017, 83, 272-314.	0.8	23
18	Algorithms for Zero-Dimensional Ideals Using Linear Recurrent Sequences. <i>Lecture Notes in Computer Science</i> , 2017, , 313-328.	1.3	1

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19	Sparse Rational Univariate Representation. , 2017, , .		4
20	A Nearly Optimal Algorithm for Deciding Connectivity Queries in Smooth and Bounded Real Algebraic Sets. Journal of the ACM, 2017, 63, 1-37.	2.2	24
21	Computation of the Similarity Class of the p-Curvature. , 2016, , .		4
22	A Fast Algorithm for Computing the Truncated Resultant. , 2016, , .		6
23	Fast Computation of Minimal Interpolation Bases in Popov Form for Arbitrary Shifts. , 2016, , .		14
24	A softly optimal Monte Carlo algorithm for solving bivariate polynomial systems over the integers. Journal of Complexity, 2016, 34, 78-128.	1.3	10
25	Explicit isogenies in quadratic time in any characteristic. LMS Journal of Computation and Mathematics, 2016, 19, 267-282.	0.9	4
26	Faster Algorithms for Multivariate Interpolation With Multiplicities and Simultaneous Polynomial Approximations. IEEE Transactions on Information Theory, 2015, 61, 2370-2387.	2.4	22
27	Algorithms for Finite Field Arithmetic. , 2015, , .		0
28	A Fast Algorithm for Computing the P-curvature. , 2015, , .		9
29	Computing in degree 2^k -extensions of finite fields of odd characteristic. Designs, Codes, and Cryptography, 2015, 74, 559-569.	1.6	5
30	A fast algorithm for computing the characteristic polynomial of the p-curvature. , 2014, , .		10
31	Fast arithmetic for the algebraic closure of finite fields. , 2014, , .		4
32	Modular Composition Modulo Triangular Sets and Applications. Computational Complexity, 2013, 22, 463-516.	0.3	13
33	On the complexity of computing with zero-dimensional triangular sets. Journal of Symbolic Computation, 2013, 50, 110-138.	0.8	21
34	Multi-point evaluation in higher dimensions. Applicable Algebra in Engineering, Communications and Computing, 2013, 24, 37-52.	0.5	11
35	On the complexity of computing certain resultants. ACM Communications in Computer Algebra, 2013, 46, 108-109.	0.4	0
36	Taking roots over high extensions of finite fields. Mathematics of Computation, 2013, 83, 435-446.	2.1	10

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37	Algorithms for the universal decomposition algebra. , 2012, , .		2
38	Genus 2 point counting over prime fields. Journal of Symbolic Computation, 2012, 47, 368-400.	0.8	50
39	Fast arithmetics in Artin's Schreier towers over finite fields. Journal of Symbolic Computation, 2012, 47, 771-792.	0.8	9
40	Bit-size estimates for triangular sets in positive dimension. Journal of Complexity, 2012, 28, 109-135.	1.3	5
41	Inversion Modulo Zero-Dimensional Regular Chains. Lecture Notes in Computer Science, 2012, , 224-235.	1.3	1
42	Homotopy techniques for multiplication modulo triangular sets. Journal of Symbolic Computation, 2011, 46, 1378-1402.	0.8	8
43	A Baby Steps/Giant Steps Probabilistic Algorithm for Computing Roadmaps in Smooth Bounded Real Hypersurface. Discrete and Computational Geometry, 2011, 45, 181-220.	0.6	22
44	Optimization techniques for small matrix multiplication. Theoretical Computer Science, 2011, 412, 2219-2236.	0.9	22
45	The modpn library: Bringing fast polynomial arithmetic into Maple. Journal of Symbolic Computation, 2011, 46, 841-858.	0.8	20
46	Complexity and Performance Results for Non FFT-Based Univariate Polynomial Multiplication. , 2011, , .		1
47	Almost linear time operations with triangular sets. ACM Communications in Computer Algebra, 2011, 44, 103-104.	0.4	0
48	On the geometry of polar varieties. Applicable Algebra in Engineering, Communications and Computing, 2010, 21, 33-83.	0.5	43
49	Fast conversion algorithms for orthogonal polynomials. Linear Algebra and Its Applications, 2010, 432, 249-258.	0.9	6
50	The modpn library. ACM Communications in Computer Algebra, 2009, 42, 172-174.	0.4	3
51	Interpolation of polynomials given by straight-line programs. Theoretical Computer Science, 2009, 410, 2659-2662.	0.9	39
52	A simple and fast algorithm for computing exponentials of power series. Information Processing Letters, 2009, 109, 754-756.	0.6	6
53	Fast arithmetic for triangular sets: From theory to practice. Journal of Symbolic Computation, 2009, 44, 891-907.	0.8	20
54	Evaluation properties of invariant polynomials. Journal of Symbolic Computation, 2009, 44, 1592-1604.	0.8	0

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55	Change of order for regular chains in positive dimension. Theoretical Computer Science, 2008, 392, 37-65.	0.9	15
56	Solving structured linear systems with large displacement rank. Theoretical Computer Science, 2008, 407, 155-181.	0.9	26
57	High-Performance Symbolic Computation in a Hybrid Compiled-Interpreted Programming Environment. , 2008, , .		1
58	Power series composition and change of basis. , 2008, , .		8
59	Differential equations for algebraic functions. , 2007, , .		38
60	Linear Recurrences with Polynomial Coefficients and Application to Integer Factorization and Cartier-Manin Operator. SIAM Journal on Computing, 2007, 36, 1777-1806.	1.0	65
61	EVALUATION PROPERTIES OF SYMMETRIC POLYNOMIALS. International Journal of Algebra and Computation, 2006, 16, 505-523.	0.5	6
62	Fast computation of special resultants. Journal of Symbolic Computation, 2006, 41, 1-29.	0.8	42
63	Polynomial evaluation and interpolation on special sets of points. Journal of Complexity, 2005, 21, 420-446.	1.3	60
64	Multivariate power series multiplication. , 2005, , .		5
65	On the complexities of multipoint evaluation and interpolation. Theoretical Computer Science, 2004, 329, 223-235.	0.9	6
66	Linear Recurrences with Polynomial Coefficients and Computation of the Cartier-Manin Operator on Hyperelliptic Curves. Lecture Notes in Computer Science, 2004, , 40-58.	1.3	11
67	Construction of Secure Random Curves of Genus 2 over Prime Fields. Lecture Notes in Computer Science, 2004, , 239-256.	1.3	27
68	Computing Parametric Geometric Resolutions. Applicable Algebra in Engineering, Communications and Computing, 2003, 13, 349-393.	0.5	62
69	Fast Algorithms for Zero-Dimensional Polynomial Systems using Duality. Applicable Algebra in Engineering, Communications and Computing, 2003, 14, 239-272.	0.5	14
70	Complexity results for triangular sets. Journal of Symbolic Computation, 2003, 36, 555-594.	0.8	23
71	Polar varieties and computation of one point in each connected component of a smooth real algebraic set. , 2003, , .		55