Stéphane Gaubert

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Multi-stage Stochastic Alternating Current Optimal Power Flow with Storage: Bounding the Relaxation Gap. Electric Power Systems Research, 2022, 206, 107774.	2.1	2
2	Multiply Accelerated Value Iteration for NonSymmetric Affine Fixed Point Problems and Application to Markov Decision Processes. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 199-232.	0.7	0
3	No self-concordant barrier interior point method is strongly polynomial. , 2022, , .		4
4	What Tropical Geometry Tells Us about the Complexity of Linear Programming. SIAM Review, 2021, 63, 123-164.	4.2	22
5	Spectral Inequalities for Nonnegative Tensors and Their Tropical Analogues. Vietnam Journal of Mathematics, 2020, 48, 893-928.	0.4	1
6	A Privacy-Preserving Method to Optimize Distributed Resource Allocation. SIAM Journal on Optimization, 2020, 30, 2303-2336.	1.2	4
7	Tropical planar networks. Linear Algebra and Its Applications, 2020, 595, 123-144.	0.4	0
8	Tropical Spectrahedra. Discrete and Computational Geometry, 2020, 63, 507-548.	0.4	24
9	A convergent hierarchy of non-linear eigenproblems to compute the joint spectral radius of nonnegative matrices. Mathematical Control and Related Fields, 2020, 10, 573-590.	0.6	6
10	A Convex Programming Approach to Solve Posynomial Systems. Lecture Notes in Computer Science, 2020, , 241-250.	1.0	0
11	Analysis and Implementation of an Hourly Billing Mechanism for Demand Response Management. IEEE Transactions on Smart Grid, 2019, 10, 4265-4278.	6.2	34
12	The Operator Approach to Entropy Games. Theory of Computing Systems, 2019, 63, 1089-1130.	0.7	6
13	Solving Ergodic Markov Decision Processes and Perfect Information Zero-sum Stochastic Games by Variance Reduced Deflated Value Iteration. , 2019, , .		1
14	The tropical analogue of the Helton–Nie conjecture is true. Journal of Symbolic Computation, 2019, 91, 129-148.	0.5	1
15	Matrix versions of the Hellinger distance. Letters in Mathematical Physics, 2019, 109, 1777-1804.	0.5	28
16	Tropical compound matrix identities. Linear Algebra and Its Applications, 2018, 551, 162-206.	0.4	1
17	Log-Barrier Interior Point Methods Are Not Strongly Polynomial. SIAM Journal on Applied Algebra and Geometry, 2018, 2, 140-178.	0.9	45
18	Algèbre de groupe en caractéristique 1 et distances invariantes sur un groupe fini. Mathematische Zeitschrift, 2018, 289, 695-709.	0.4	0

STéPHANE GAUBERT

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19	Generic uniqueness of the bias vector of finite zero-sum stochastic games with perfect information. Journal of Mathematical Analysis and Applications, 2018, 457, 1038-1064.	0.5	1
20	Solving generic nonarchimedean semidefinite programs using stochastic game algorithms. Journal of Symbolic Computation, 2018, 85, 25-54.	0.5	23
21	Stationary solutions of discrete and continuous Petri nets with priorities. Performance Evaluation, 2017, 113, 1-12.	0.9	6
22	Log-majorization of the moduli of the eigenvalues of a matrix polynomial by tropical roots. Linear Algebra and Its Applications, 2017, 528, 394-435.	0.4	7
23	Checking strict positivity of Kraus maps is NP-hard. Information Processing Letters, 2017, 118, 35-43.	0.4	2
24	Tropical Kraus maps for optimal control of switched systems. , 2017, , .		0
25	Uniqueness of the fixed point of nonexpansive semidifferentiable maps. Transactions of the American Mathematical Society, 2016, 368, 1271-1320.	0.5	6
26	Solving Generic Nonarchimedean Semidefinite Programs Using Stochastic Game Algorithms. , 2016, , .		2
27	Maximizing concave piecewise affine functions on the unitary group. Optimization Letters, 2016, 10, 655-665.	0.9	2
28	Non-archimedean valuations of eigenvalues of matrix polynomials. Linear Algebra and Its Applications, 2016, 498, 592-627.	0.4	6
29	A Scalable Algebraic Method to Infer Quadratic Invariants of Switched Systems. Transactions on Embedded Computing Systems, 2016, 15, 1-20.	2.1	2
30	Tropicalizing the Simplex Algorithm. SIAM Journal on Discrete Mathematics, 2015, 29, 751-795.	0.4	47
31	Certification of real inequalities: templates and sums of squares. Mathematical Programming, 2015, 151, 477-506.	1.6	1
32	Dobrushin's Ergodicity Coefficient for Markov Operators on Cones. Integral Equations and Operator Theory, 2015, 81, 127-150.	0.4	15
33	Definable Zero-Sum Stochastic Games. Mathematics of Operations Research, 2015, 40, 171-191.	0.8	21
34	Discrete limit and monotonicity properties of the Floquet eigenvalue in an age structured cell division cycle model. Journal of Mathematical Biology, 2015, 71, 1663-1703.	0.8	4
35	Ergodicity conditions for zero-sum games. Discrete and Continuous Dynamical Systems, 2015, 35, 3901-3931.	0.5	8
36	Tropical Fourier–Motzkin elimination, with an application to real-time verification. International Journal of Algebra and Computation, 2014, 24, 569-607.	0.4	12

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37	Combinatorial Simplex Algorithms Can Solve Mean Payoff Games. SIAM Journal on Optimization, 2014, 24, 2096-2117.	1.2	26
38	The contraction rate in Thompson's part metric of order-preserving flows on a cone – Application to generalized Riccati equations. Journal of Differential Equations, 2014, 256, 2902-2948.	1.1	11
39	Computing the smallest fixed point of order-preserving nonexpansive mappings arising in positive stochastic games and static analysis of programs. Journal of Mathematical Analysis and Applications, 2014, 410, 227-240.	0.5	19
40	Tropical bounds for eigenvalues of matrices. Linear Algebra and Its Applications, 2014, 446, 281-303.	0.4	7
41	Computing the Vertices of Tropical Polyhedra Using Directed Hypergraphs. Discrete and Computational Geometry, 2013, 49, 247-279.	0.4	41
42	Submodular spectral functions of principal submatrices of a hermitian matrix, extensions and applications. Linear Algebra and Its Applications, 2013, 438, 3872-3884.	0.4	7
43	Perron–Frobenius theorem for nonnegative multilinear forms and extensions. Linear Algebra and Its Applications, 2013, 438, 738-749.	0.4	232
44	The level set method for the two-sided max-plus eigenproblem. Discrete Event Dynamic Systems: Theory and Applications, 2013, 23, 105-134.	0.6	12
45	Max-Plus Algebra. Discrete Mathematics and Its Applications, 2013, , 571-592.	0.1	4
46	Certification of Bounds of Non-linear Functions: The Templates Method. Lecture Notes in Computer Science, 2013, , 51-65.	1.0	3
47	Certification of inequalities involving transcendental functions: Combining SDP and max-plus approximation. , 2013, , .		4
48	TROPICAL POLYHEDRA ARE EQUIVALENT TO MEAN PAYOFF GAMES. International Journal of Algebra and Computation, 2012, 22, 1250001.	0.4	88
49	A maximin characterisation of the escape rate of non-expansive mappings in metrically convex spaces. Mathematical Proceedings of the Cambridge Philosophical Society, 2012, 152, 341-363.	0.3	28
50	Abstract interpretation meets convex optimization. Journal of Symbolic Computation, 2012, 47, 1416-1446.	0.5	20
51	Tropical linear-fractional programming and parametric mean payoff games. Journal of Symbolic Computation, 2012, 47, 1447-1478.	0.5	49
52	Min-Max Spaces and Complexity Reduction in Min-Max Expansions. Applied Mathematics and Optimization, 2012, 65, 315-348.	0.8	9
53	Coupling policy iteration with semi-definite relaxation to compute accurate numerical invariants in static analysis. Logical Methods in Computer Science, 2012, 8, .	0.4	14
54	Curse of dimensionality reduction in max-plus based approximation methods: Theoretical estimates and improved pruning algorithms. , 2011, , .		27

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55	The HrpN Effector of <i>Erwinia amylovora</i> , Which Is Involved in Type III Translocation, Contributes Directly or Indirectly to Callose Elicitation on Apple Leaves. Molecular Plant-Microbe Interactions, 2011, 24, 577-584.	1.4	33
56	Best approximation in max-plus semimodules. Linear Algebra and Its Applications, 2011, 435, 3261-3296.	0.4	44
57	Minimal half-spaces and external representation of tropical polyhedra. Journal of Algebraic Combinatorics, 2011, 33, 325-348.	0.4	43
58	The set of realizations of a max-plus linear sequence is semi-polyhedral. Journal of Computer and System Sciences, 2011, 77, 820-833.	0.9	1
59	Stability and convergence in discrete convex monotone dynamical systems. Journal of Fixed Point Theory and Applications, 2011, 9, 295-325.	0.6	4
60	Tropical polar cones, hypergraph transversals, and mean payoff games. Linear Algebra and Its Applications, 2011, 435, 1549-1574.	0.4	26
61	Circadian rhythm and cell population growth. Mathematical and Computer Modelling, 2011, 53, 1558-1567.	2.0	23
62	The number of extreme points of tropical polyhedra. Journal of Combinatorial Theory - Series A, 2011, 118, 162-189.	0.5	34
63	Carathéodory, Helly and the Others in the Max-Plus World. Discrete and Computational Geometry, 2010, 43, 648-662.	0.4	29
64	Submodularity and Randomized rounding techniques for Optimal Experimental Design. Electronic Notes in Discrete Mathematics, 2010, 36, 679-686.	0.4	16
65	Sperner Oiks. Electronic Notes in Discrete Mathematics, 2010, 36, 1273-1280.	0.4	4
66	Scarf Oiks. Electronic Notes in Discrete Mathematics, 2010, 36, 1281-1288.	0.4	1
67	Duality Between Invariant Spaces for Max-Plus Linear Discrete Event Systems. SIAM Journal on Control and Optimization, 2010, 48, 5606-5628.	1.1	33
68	The tropical analogue of polar cones. Linear Algebra and Its Applications, 2009, 431, 608-625.	0.4	19
69	Max-plus Algebraic Tools for Discrete Event Systems, Static Analysis, and Zero-Sum Games. Lecture Notes in Computer Science, 2009, , 7-11.	1.0	Ο
70	Cyclic projectors and separation theorems in idempotent convex geometry. Journal of Mathematical Sciences, 2008, 155, 815-829.	0.1	16
71	The Max-Plus Finite Element Method for Solving Deterministic Optimal Control Problems: Basic Properties and Convergence Analysis. SIAM Journal on Control and Optimization, 2008, 47, 817-848.	1.1	63
72	Evaluation of potential risks associated with recombination in transgenic plants expressing viral sequences. Journal of General Virology, 2008, 89, 327-335.	1.3	23

STéPHANE GAUBERT

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73	Curse-of-complexity attenuation in the curse-of-dimensionality-free method for HJB PDEs. , 2008, , .		32
74	Inferring Min and Max Invariants Using Max-Plus Polyhedra. Lecture Notes in Computer Science, 2008, , 189-204.	1.0	36
75	An inequality for the Perron and Floquet eigenvalues of monotone differential systems and age structured equations. Comptes Rendus Mathematique, 2007, 345, 549-554.	0.1	19
76	The Minkowski theorem for max-plus convex sets. Linear Algebra and Its Applications, 2007, 421, 356-369.	0.4	59
77	A policy iteration algorithm for zero-sum stochastic games with mean payoff. Comptes Rendus Mathematique, 2006, 343, 377-382.	0.1	10
78	How to solve large scale deterministic games with mean payoff by policy iteration. , 2006, , .		21
79	REACHABILITY PROBLEMS FOR PRODUCTS OF MATRICES IN SEMIRINGS. International Journal of Algebra and Computation, 2006, 16, 603-627.	0.4	18
80	lteration of order preserving subhomogeneous maps on a cone. Mathematical Proceedings of the Cambridge Philosophical Society, 2006, 140, 157.	0.3	23
81	Max-Plus Convex Geometry. Lecture Notes in Computer Science, 2006, , 192-206.	1.0	21
82	A novel strategy for creating recombinant infectious RNA virus genomes. Journal of Virological Methods, 2004, 121, 247-257.	1.0	21
83	Duality and separation theorems in idempotent semimodules. Linear Algebra and Its Applications, 2004, 379, 395-422.	0.4	175
84	The Perron-Frobenius theorem for homogeneous, monotone functions. Transactions of the American Mathematical Society, 2004, 356, 4931-4950.	0.5	101
85	Transient expression in mammalian cells of transgenes transcribed from theCauliflower mosaic virus35S promoter. Environmental Biosafety Research, 2004, 3, 91-97.	1.1	25
86	Spectral theorem for convex monotone homogeneous maps, and ergodic control. Nonlinear Analysis: Theory, Methods & Applications, 2003, 52, 637-679.	0.6	41
87	Generic Asymptotics of Eigenvalues Using Min-Plus Algebra. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 789-794.	0.4	6
88	A Spectral Theorem for Convex Monotone Homogeneous Maps. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 867-872.	0.4	4
89	A constructive fixed point theorem for min-max functions. Dynamical Systems, 1999, 14, 407-433.	0.7	71
90	Max-plus algebra and system theory: Where we are and where to go now. Annual Reviews in Control, 1999, 23, 207-219.	4.4	114

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91	Petri Net Languages and Infinite Subsets of Nm. Journal of Computer and System Sciences, 1999, 59, 373-391.	0.9	24
92	Asymptotics of the Perron eigenvalue and eigenvector using max-algebra. Comptes Rendus Mathematique, 1998, 327, 927-932.	0.5	13
93	Minimal (max,+) Realization of Convex Sequences. SIAM Journal on Control and Optimization, 1998, 36, 137-147.	1.1	41
94	Numerical Computation of Spectral Elements in Max-Plus Algebra â~†. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 667-674.	0.4	88
95	On the burnside problem for semigroups of matrices in the (max,+) algebra. Semigroup Forum, 1996, 52, 271-292.	0.3	23