## StÃ@phane Gaubert

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/3725758/publications.pdf
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Perronâe"Frobenius theorem for nonnegative multilinear forms and extensions. Linear Algebra and ItsInternational Federation of Automatic Control, 1998, 31, 667-674.

19 The number of extreme points of tropical polyhedra. Journal of Combinatorial Theory - Series A, 2011,
$118,162-189$.

Analysis and Implementation of an Hourly Billing Mechanism for Demand Response Management. IEEE Transactions on Smart Grid, 2019, 10, 4265-4278.

Duality Between Invariant Spaces for Max-Plus Linear Discrete Event Systems. SIAM Journal on Control and Optimization, 2010, 48, 5606-5628.

The HrpN Effector of <i>Erwinia amylovora</i>, Which Is Involved in Type III Translocation,
22 Contributes Directly or Indirectly to Callose Elicitation on Apple Leaves. Molecular Plant-Microbe
1.4 Interactions, 2011, 24, 577-584.

23 Curse-of-complexity attenuation in the curse-of-dimensionality-free method for HJB PDEs. , 2008, , .
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24 CarathÃ®odory, Helly and the Others in the Max-Plus World. Discrete and Computational Geometry,
2010, 43, 648-662.
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## 25 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.
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26 Matrix versions of the Hellinger distance. Letters in Mathematical Physics, 2019, 109, 1777-1804.
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27 Curse of dimensionality reduction in max-plus based approximation methods: Theoretical estimates and improved pruning algorithms. , 2011, , .

Tropical polar cones, hypergraph transversals, and mean payoff games. Linear Algebra and Its

Tropical polar cones, hypergraph transversals, and mean payoff games. Linear Algebra and Its  Applications, 2011, 435, 1549-1574.  Applications, 2011, 435, 1549-1574.
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Combinatorial Simplex Algorithms Can Solve Mean Payoff Games. SIAM Journal on Optimization, 2014,
29 24, 2096-2117.
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Transient expression in mammalian cells of transgenes transcribed from theCauliflower mosaic virus35S promoter. Environmental Biosafety Research, 2004, 3, 91-97. 30Petri Net Languages and Infinite Subsets of Nm. Journal of Computer and System Sciences, 1999, 59,373-391.
32 Tropical Spectrahedra. Discrete and Computational Geometry, 2020, 63, 507-548.0.424
33 On the burnside problem for semigroups of matrices in the (max,+) algebra. Semigroup Forum, 1996, 52, 271-292.
Iteration of order preserving subhomogeneous maps on a cone. Mathematical Proceedings of the Cambridge Philosophical Society, 2006, 140, 157.Evaluation of potential risks associated with recombination in transgenic plants expressing viralsequences. Journal of General Virology, 2008, 89, 327-335.1.323

Solving generic nonarchimedean semidefinite programs using stochastic game algorithms. Journal of
Symbolic Computation, 2018, 85, 25-54.

What Tropical Geometry Tells Us about the Complexity of Linear Programming. SIAM Review, 2021, 63, 123-164.
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A novel strategy for creating recombinant infectious RNA virus genomes. Journal of Virological
$39 \quad \begin{aligned} & \text { A novel strategy for creating rec } \\ & \text { Methods, 2004, 121, 247-257. }\end{aligned}$
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40 How to solve large scale deterministic games with mean payoff by policy iteration. , 2006, , .
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41 Definable Zero-Sum Stochastic Games. Mathematics of Operations Research, 2015, 40, 171-191.
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42 Max-Plus Convex Geometry. Lecture Notes in Computer Science, 2006, , 192-206.
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Abstract interpretation meets convex optimization. Journal of Symbolic Computation, 2012, 47,
1416-1446.

An inequality for the Perron and Floquet eigenvalues of monotone differential systems and age
structured equations. Comptes Rendus Mathematique, 2007, 345, 549-554.
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The tropical analogue of polar cones. Linear Algebra and Its Applications, 2009, 431, 608-625.
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Computing the smallest fixed point of order-preserving nonexpansive mappings arising in positive
46 stochastic games and static analysis of programs. Journal of Mathematical Analysis and Applications, 2014, 410, 227-240.

REACHABILITY PROBLEMS FOR PRODUCTS OF MATRICES IN SEMIRINGS. International Journal of Algebra
and Computation, 2006, 16, 603-627.
Cyclic projectors and separation theorems in idempotent convex geometry. Journal of Mathematical Sciences, 2008, 155, 815-829.
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Submodularity and Randomized rounding techniques for Optimal Experimental Design. Electronic
Notes in Discrete Mathematics, 2010, 36, 679-686.

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Coupling policy iteration with semi-definite relaxation to compute accurate numerical invariants in
static analysis. Logical Methods in Computer Science, 2012, 8, .

Asymptotics of the Perron eigenvalue and eigenvector using max-algebra. Comptes Rendus Mathematique, 1998, 327, 927-932.

The level set method for the two-sided max-plus eigenproblem. Discrete Event Dynamic Systems: Theory and Applications, 2013, 23, 105-134.

Tropical Fourierâ€"Motzkin elimination, with an application to real-time verification. International Journal of Algebra and Computation, 2014, 24, 569-607.

55 The contraction rate in Thompson's part metric of order-preserving flows on a cone â€ "Application to
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Ergodicity conditions for zero-sum games. Discrete and Continuous Dynamical Systems, 2015, 35, 3901-3931.

Submodular spectral functions of principal submatrices of a hermitian matrix, extensions and applications. Linear Algebra and Its Applications, 2013, 438, 3872-3884.
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Algebra and Its Applications, 2017, 528, 394-435.
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62 Generic Asymptotics of Eigenvalues Using Min-Plus Algebra. IFAC Postprint Volumes IPPV | International Federation of Automatic Control, 2001, 34, 789-794.
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63 Uniqueness of the fixed point of nonexpansive semidifferentiable maps. Transactions of the American
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Non-archimedean valuations of eigenvalues of matrix polynomials. Linear Algebra and Its Applications, 2016, 498, 592-627.
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Stationary solutions of discrete and continuous Petri nets with priorities. Performance Evaluation, 2017, 113, 1-12.
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66 The Operator Approach to Entropy Games. Theory of Computing Systems, 2019, 63, 1089-1130.
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Sperner Oiks. Electronic Notes in Discrete Mathematics, 2010, 36, 1273-1280.
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Stability and convergence in discrete convex monotone dynamical systems. Journal of Fixed Point Theory and Applications, 2011, 9, 295-325.
A Privacy-Preserving Method to Optimize Distributed Resource Allocation. SIAM Journal on
Optimization, 2020, 30, 2303-2336.

Certification of inequalities involving transcendental functions: Combining SDP and max-plus

Maximizing concave piecewise affine functions on the unitary group. Optimization Letters, 2016, 10, 655-665.
81 Multi-stage Stochastic Alternating Current Optimal Power Flow with Storage: Bounding the
83 The set of realizations of a max-plus linear sequence is semi-polyhedral. Journal of Computer and System Sciences, 2011, 77, 820-833.
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85 Tropical compound matrix identities. Linear Algebra and Its Applications, 2018, 551, 162-206.

