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| 1. Record Nr. | UNINA9910480532703321 |
| Titolo | Tropical and idempotent mathematics and applications : International Workshop on Tropical and Idempotent Mathematics, August 26-31, 2012, Independent University, Moscow, Russia / / G. L. Litvinov, S. N. Sergeev, editors |
| Pubbl/distr/stampa | Providence, Rhode Island : , : American Mathematical Society, , 2014 ©2014 |
| ISBN | 1-4704-1684-0 |
| Descrizione fisica | 1 online resource (300 p.) |
| Collana | Contemporary Mathematics, , 1098-3627 ; ; 616 |
| Disciplina | 516.3/5 |
| Soggetti | Tropical geometry Geometry, Algebraic Idempotents Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | <p>""Preface""; ""In Memory of Grigory Litvinov""; ""Tropical Cramer determinants revisited""; ""1. Introduction""; ""2. Semirings with a symmetry and a modulus""; ""3. Combinatorial properties of semirings""; ""4. Elimination in semirings and Cramer theorem""; ""5. Existence of solutions of tropical linear systems""; ""6. Homogeneous systems: the generalized Gondran-Minoux theorem""; ""7. Systems of balances and intersections of signed hyperplanes""; ""8. Computing all Cramer Permanents: tropical Jacobi versus transportation approach""; ""9. Computing determinants""; ""Acknowledgment""</p> <p>""References""""An approximation of Hopf-Lax type formula via idempotent analysis""; ""1. Introduction""; ""2. Basic notions of idempotent analysis""; ""3. Approximation formulas to solutions of Hamilton-Jacobi equations""; ""References""; ""Ideals of MV-semirings and MV-algebras""; ""1. Introduction""; ""2. Preliminaries""; ""3. Ideals, congruences and quotients""; ""4. The frame of radical ideals of an MV-semiring""; ""5. The frame of radical ideals of an MV-algebra""; ""6. The frames of open sets of $\text{Spec}()$ and of $\text{Spec}()$""; ""7. The frame of</p> |

open sets of $\backslash \text{Max}(\)$ "; ""References""

""2. Optimal solution""""3. Approximate solution""; ""4. Conclusions"";

""References""; ""Algebraic structures of tropical mathematics""; ""1.

Introduction""; ""2. Algebraic background""; ""3. The layered structure"";

""4. Matrices and linear algebra""; ""5. Identities of semirings, especially

matrices""; ""References""; ""Parametric dequantization, tropical

reduction of hyperfields and steady states of AC electrical networks"";

""1. Introduction""; ""2. Real tropical polynomials over a semifield""; ""3.

Parametric limits of polynomials with various conditions on their
coefficients""

""4. Complex tropical polynomials over hyperfield and tropical
reduction""""5. The power balance equations in AC network""; ""6.

Tropical reduction of the power balance equations, Foster coefficients
and minimal spanning trees""; ""7. Concluding remarks"";

""References""; ""A constrained tropical optimization problem: Complete
solution and application example""; ""1. Introduction""; ""2. Preliminary

definitions and results""; ""3. Linear inequalities""; ""4. An optimization

problem""; ""5. Applications to optimal scheduling"";

""Acknowledgments""; ""References""

""On the mathematical foundations of classical thermodynamics""
