

1. Record Nr.	UNISA996418254803316
Titolo	Combinatorial Structures in Algebra and Geometry [[electronic resource] ] : NSA 26, Constana, Romania, August 26–September 1, 2018 // edited by Dumitru I. Stamate, Tomasz Szemberg
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-52111-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 182 p. 40 illus., 6 illus. in color.)
Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1009 ; ; 331
Disciplina	511.6
Soggetti	Commutative algebra Commutative rings Algebraic geometry Combinatorics Graph theory Algebra Field theory (Physics) Commutative Rings and Algebras Algebraic Geometry Graph Theory Field Theory and Polynomials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nearly normally torsionfree ideals (Andrei-Ciobanu) -- Gröbner-nice pairs of ideals (Stamate) -- Veneroni maps (Tutaj-Gasińska et al.) -- On the symbolic powers of binomial edge ideals (Herzog et al.) -- Multigraded Betti numbers of some path ideals (Erey) -- Depth of an initial ideal (Tsuchiya et al.) -- Asymptotic behavior of symmetric ideals: A brief survey (Römer et al.) -- On piecewise-linear homeomorphisms between distributive and anti-blocking polyhedra (Sanyal et al.) -- The Bass-Quillen Conjecture and Swan's question (Popescu) -- Licci level Stanley-Reisner ideals with height three and with type two (Yoshida et al.) -- Homological and combinatorial properties of powers of cover ideals of graphs (Fakhari) -- Fermat-type

arrangements (Szpond).

---

Sommario/riassunto

This proceedings volume presents selected, peer-reviewed contributions from the 26th National School on Algebra, which was held in Constana, Romania, on August 26-September 1, 2018. The works cover three fields of mathematics: algebra, geometry and discrete mathematics, discussing the latest developments in the theory of monomial ideals, algebras of graphs and local positivity of line bundles. Whereas interactions between algebra and geometry go back at least to Hilbert, the ties to combinatorics are much more recent and are subject of immense interest at the forefront of contemporary mathematics research. Transplanting methods between different branches of mathematics has proved very fruitful in the past – for example, the application of fixed point theorems in topology to solving nonlinear differential equations in analysis. Similarly, combinatorial structures, e.g., Newton-Okounkov bodies, have led to significant advances in our understanding of the asymptotic properties of line bundles in geometry and multiplier ideals in algebra. This book is intended for advanced graduate students, young scientists and established researchers with an interest in the overlaps between different fields of mathematics. A volume for the 24th edition of this conference was previously published with Springer under the title "Multigraded Algebra and Applications" (ISBN 978-3-319-90493-1).

---