1. Record Nr. UNINA9910821354103321

Titolo	Computational algebraic and analytic geometry : AMS special sessions on computational algebraic and analytic geometry for low-dimensional varieties, January 8, 2007, New Orleans, LA, January 6, 2009, Washington, DC, January 6, 2011, New Orleans, LA / / Mika Seppala, Emil Volcheck, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2012] ©2012
ISBN	0-8218-8989-3
Descrizione fisica	1 online resource (242 p.)
Collana	Contemporary mathematics, ; 572 , 0271-4132
Classificazione	14HXX30FXX68WXX
Disciplina	512/.5
Soggetti	Curves, Algebraic - Data processing Riemann surfaces
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.
Nota di contenuto	Preface -- Large hyperbolic polygons and hyperelliptic Riemann surfaces -- 1. Hyperbolic Polygons -- 2. Closing large polygons -- 3. Groups from Polygons -- 4. Reduction Algorithms on Polygons -- References -- On isolated strata of pentagonal Riemann surfaces in the branch locus of moduli spaces -- 1. Introduction -- 2. Riemann surfaces and Fuchsian groups -- 3. Disconnectedness by pentagonal Riemann surfaces -- References -- Finite group actions of large order on compact bordered surfaces -- 1. Introduction -- 2. Preliminaries -- 1. Introduction -- 2. Border bases for homogeneous ideals -- 3. Curves given by points -- 4. Curves in X given by approximate points -- 5. Degree bounds for ideal generators -- Acknowledgments -- References -- Non-genera of curves with automorphisms in characteristic -- 1. Introduction -- 2. Non-genera for -actions -- 3. -ranks -- References -- Numerical Schottky uniformizations of certain cyclic L-gonal curves -- 1. Introduction -- 2. Preliminaries -- 3. Basic facts on Whittaker groups -- 4. Basic objects -- 5. The generalized Myrberg's algorithm -- 6. Application to algebraic curves -- Acknowledgements -- References -- Generalized lantern relations and planar line arrangements -- 1. Introduction -- 2. Real line

arrangements and relations on Dehn twists -- 3. Applications -- References -- Effective -adic cohomology for cyclic cubic threefolds -- 1. Zeta functions: generalities -- 2. Algebraic de Rham cohomology -- 3. de Rham cohomology and -adic cohomology -- 4. The direct method for cyclic cubic threefolds -- 5. Picard-Fuchs-Manin connections -- 6. The deformation method for cyclic cubic threefolds -- Appendix A. Notes and further reading -- References -- Generating sets of affine groups of low genus -- 1. Introduction -- 2. The Algorithm -- 3. Genus Zero Systems and the Guralnick-Thompson Conjecture -- References -- Classification of algebraic ODEs with respect to rational solvability -- 1. Introduction -- 2. Preliminaries -- 3. A group of affine linear transformations -- 4. Solvable AODEs and their associated systems -- 5. Parametrizable ODEs with special geometric shapes -- 6. Conclusion -- References.