1. Record Nr. UNINA9910821761703321

Titolo	Affine algebraic geometry : proceedings of the conference, Osaka, Japan, 3-6 March 2011 / / editors, Kayo Masuda, Kwansei Gakuin University, Japan, Hideo Kojima, Niigata University, Japan, Takashi Kishimoto, Saitama University, Japan
Pubbl/distr/stampa	Singapore, : World Scientific Pub. Co., 2013 New Jersey : , : World Scientific, , [2013] 2013
ISBN	981-4436-70-4
Descrizione fisica	1 online resource (xx, 330 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	516.352
Soggetti	Geometry, Algebraic Geometry, Affine
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; Dedication; Bibliography of Masayoshi Miyanishi; CONTENTS; Acyclic curves and group actions on affine toric surfaces; Introduction; 1. Preliminaries; 1.1. Simply connected plane affine curves; 1.2. The automorphism group of the affine plane; 2. Subgroups of de Jonqueres group and stabilizers of plane curves; 2.1. Subgroups of the de Jonqueres group; 2.2. Stabilizers of acyclic plane curves; 3. Acyclic curves on affine toric surfaces; 3.1. Acyclic curves in the smooth locus; 3.2. Acyclic curves through the singular point; 3.3. Acyclic curves as orbit closures 3.4. Reducible acyclic curves on affine toric surfaces4. Automorphism groups of affine toric surfaces; 4.1. Free amalgamated product structure; 4.2. Algebraic groups actions on affine toric surfaces; 5. Acyclic curves and automorphism groups of non-toric quotient surfaces; References; Hirzebruch surfaces and compactifications of C2; 1. Introduction; 2. A proof of Theorem 1.2; 3. A proof of Theorem 1.3; 4. Abhyankar-Moh-Suzuki's theorem; References; Cyclic multiple planes, branched covers of Sn and a result of D. L. Goldsmith; 1. Introduction; 2. Preliminaries; 3. Proof of the Theorem

4. Branched covers of Sn5. Goldsmith's result; References; A1*-fibrations on affine threefolds; Introduction; 1. Preliminaries; 2. A1*-fibration; 3. Homology threefolds with A1-fibrations; 4. Contractible affine threefolds with A1 *-fibrations; References; Acknowledgements; Miyanishi's characterization of singularities appearing on A1-fibrations does not hold in higher dimensions; 1. Introduction; 2. Preliminaries; 3. Proof of Theorem 1.2; 3.1.; 3.2.; 3.2.1.; 3.3.; 3.4.; 3.5.; 3.5.1.; 3.5.2.; 3.6.; 3.6.1.; 3.6.2.; Acknowledgements; References
A Galois counterexample to Hilbert's Fourteenth Problem in dimension three with rational coefficients1. Introduction; 2. Invariant field; 3. Kuroda's construction; 4. Proof of Theorem 1.2; Acknowledgments; References; Open algebraic surfaces of logarithmic Kodaira dimension one; 0. Introduction; 1. Preliminary results; 2. Structure of open algebraic surfaces of = 1; 3. Logarithmic plurigenera of normal affine surfaces of k = 1; Acknowledgements; References; Some properties of C* in C2; 0. Introduction; 1. Preliminaries; 2. Basic inequality
3. Separation of branches I: The branches are tangent at infinity4. Separation of branches II: The branches separate on the first blowing up; References; Acknowledgements; Abhyankar-Sathaye Embedding Conjecture for a geometric case; 1. Introduction; 2. Preliminaries; 3. Proof of Theorem 1.1; Acknowledgments; References; Some subgroups of the Cremona groups; 1. Introduction; 2. Flattening, linearizability, tori; 3. Subgroups of the rational de Jonquieres groups; 4. Affine subspaces as cross-sections; References; The gonality of singular plane curves II; 1. Introduction; 2. Preliminaries
3. Proof of Theorem 1

Sommario/riassunto

The present volume grew out of an international conference on affine algebraic geometry held in Osaka, Japan during 3-6 March 2011 and is dedicated to Professor Masayoshi Miyanishi on the occasion of his 70th birthday. It contains 16 refereed articles in the areas of affine algebraic geometry, commutative algebra and related fields, which have been the working fields of Professor Miyanishi for almost 50 years. Readers will be able to find recent trends in these areas too. The topics contain both algebraic and analytic, as well as both affine and projective, problems. All the results treated in