1. Record Nr. UNINA9910815369603321

Titolo	Quadratic forms : algebra, arithmetic, and geometry / / Ricardo Baeza [and three others], editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2009] ©2009
ISBN	0-8218-8172-8 0-8218-4648-5
Descrizione fisica	1 online resource (424 p.)
Collana	Contemporary mathematics, ; 493 , 0271-4132
Disciplina	512.7/4
Soggetti	Forms, Quadratic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Algebraic and Arithmetic Theory of Quadratic Forms, December 13-19, 2007, Frutillar, Chile." "This volume presents a collection of articles that are based on talks delivered at the International Conference on the Algebraic and Arithmetic Theory of Quadratic Forms held in Frutillar, Chile in December 2007"--P. [4] of cover.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents -- Preface -- List of Participants -- H1(X, I?) of conics and Witt kernels in characteristic 2 -- Pythagoras numbers and quadratic field extensions -- On perfection relations in lattices -- Linear independence of local densities of quadratic forms and its application to the theory of Siegel modular forms -- Representation of reduced special groups in algebras of continuous functions -- Solubility of Fermat equations -- Multiplicative properties of integral binary quadratic forms -- Effective structure theorems for symplectic spaces via height -- Orthogonal involutions on algebras of degree 16 and the Killing form of E8 (with an appendix by Kirill Zainoulline) -- The first Zariski co-homology group of the Witt sheaf over a split simply connected simple algebraic group -- On families of testing formulae for a pp-formula -- Siegel modular forms of small weight and the Witt-operator -- On isotropy of quadratic pairs -- Specialization of forms in the presence of characteristic 2: first steps -- Representation of integers by special positive definite integral quadratic forms -- Hyper-isotropy of bilinear forms in characteristic 2 -- A historical view

of the Pythagoras numbers of fields -- The extensions of R-places and application -- Essential dimension -- On the Pfister number of quadratic forms -- Martin Kneser's work on quadratic forms and algebraic groups -- Enumerating perfect forms -- Reduction mod-l of Theta Series of Level-ln -- On a reciprocity theorem of Gauss -- A bound of the number of reduced Arakelov divisors of a number field.