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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4547
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Soggetti	Coding theory Information theory Cryptography Data encryption (Computer science) Computer science—Mathematics Discrete mathematics Algorithms Coding and Information Theory Cryptology Discrete Mathematics in Computer Science Symbolic and Algebraic Manipulation
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Structures in Finite Fields -- Explicit Factorizations of Cyclotomic and Dickson Polynomials over Finite Fields -- Some Notes on d-Form Functions with Difference-Balanced Property -- A Note on Modular Forms on Finite Upper Half Planes -- Efficient Implementation and Architectures -- A Coprocessor for the Final Exponentiation of the ? T Pairing in Characteristic Three -- VLSI Implementation of a Functional Unit to Accelerate ECC and AES on 32-Bit Processors -- Efficient Multiplication Using Type 2 Optimal Normal Bases -- Efficient Finite Field Arithmetic -- Effects of Optimizations for Software Implementations of Small Binary Field Arithmetic -- Software Implementation of Arithmetic in -- Complexity Reduction of Constant

Matrix Computations over the Binary Field -- Towards Optimal Toom-Cook Multiplication for Univariate and Multivariate Polynomials in Characteristic 2 and 0 -- Classification and Construction of Mappings over Finite Fields -- A Construction of Differentially 4-Uniform Functions from Commutative Semifields of Characteristic 2 -- Complete Mapping Polynomials over Finite Field  $F_{16}$  -- On the Classification of 4 Bit S-Boxes -- The Simplest Method for Constructing APN Polynomials EA-Inequivalent to Power Functions -- Curve Algebra -- New Point Addition Formulae for ECC Applications -- Explicit Formulas for Real Hyperelliptic Curves of Genus 2 in Affine Representation -- The Quadratic Extension Extractor for (Hyper)Elliptic Curves in Odd Characteristic -- Cryptography -- On Kabatianskii-Krouk-Smeets Signatures -- Self-certified Signatures Based on Discrete Logarithms -- Attacking the Filter Generator over  $GF(2^m)$  -- Codes -- Cyclic Additive and Quantum Stabilizer Codes -- Determining the Number of One-Weight Cyclic Codes When Length and Dimension Are Given -- Error Correcting Codes from Quasi-Hadamard Matrices -- Fast Computations of Gröbner Bases and Blind Recognitions of Convolutional Codes -- Discrete Structures -- A Twin for Euler's  $\phi$  Function in  $\mathbb{Z}/(p^d)$  -- Discrete Phase-Space Structures and Mutually Unbiased Bases -- Some Novel Results of p-Adic Component of Primitive Sequences over  $\mathbb{Z}/(p^d)$ .

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