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	Nota di contenuto	Invited Papers -- Chaining Multiplications in Finite Fields with Chudnovsky-type Algorithms and Tensor Rank of the k-multiplication -- On Some Algebraic Ways to Calculate Zeros of the Riemann Zeta Function -- Shuffle product of regular languages: results and open problems -- Contributed Papers -- Ordering the Boolean Cube Vectors by their Weights and with Minimal Change -- Designated-Verifier Linkable Ring Signatures with unconditional anonymity -- Finding Points on Elliptic Curves with Coppersmith's Method -- Weighted propositional configuration logic over De Morgan algebras -- Weighted

Two-way Transducers -- A formal algebraic approach for the quantitative modeling of connectors in architectures -- Watson-Crick Powers of a Word -- A Normal Form for Matrix Multiplication Schemes -- Bideterministic Weighted Automata -- How to decide Functionality of Compositions of Top-Down Tree Transducers -- Computation of solutions to certain nonlinear systems of fuzzy relation inequations -- When Variable-Length Codes Meet the Field of Error Detection.

Sommario/riassunto	This book constitutes the proceedings of the 9th International Conference on Algebraic Informatics, CAI 2022, held as virtual event, in October 27–29, 2022. The 2 abstracts, 3 full papers of invited speakers, and 12 contributed papers presented in this volume were carefully reviewed and selected from 17 submissions. The papers contain original and unpublished research; the topics of them lie in automata theory, cryptography, coding theory, DNA computation, computer algebra, and theory of software architectures.