



Applied Algebra, Algebraic Algorithms and Error-Correcting Codes: 15th International Symposium, Aaecc-15, Toulouse, France, May 12-16, 2003, Proceedings

By -

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0.6in. The AAEC symposium was started in June 1983 by Alain Poli (Toulouse), who, together with Roger Desq, Daniel Lazard, and Paul Camion, organized the first conference. The meaning of the acronym AAEC changed from Applied -gebra and Error Correcting Codes to Applied Algebra, Algebraic Algorithms, and Error Correcting Codes. One reason for this was the increasing importance of complexity, particularly for decoding algorithms. During the AAEC-12 symposium the conference committee decided to enforce the theory and practice of the coding side as well as the cryptographic aspects. Algebra was conserved, as in the past, but was slightly more oriented to algebraic geometry codes, finite fields, complexity, polynomials, and graphs. For AAEC-15 the main subjects covered were: Block codes. Algebra and codes: rings, fields, AG codes. Cryptography. Sequences. Algorithms, decoding algorithms. Algebra: constructions in algebra, Galois groups, differential algebra, polynomials. The talks of the six invited speakers characterized the aims of AAEC-15: P. Sole (Public Key Cryptosystems Based on Rings). S. Lin (Combinatorics Low Density Parity Check Codes). J. Stern (Cryptography and the Methodology of Provable Security). D. Costello (Graph-Based Convolutional LDPC Codes). I. Shparlinsky (Dynamical Systems Generated by Rational Functions). A. Lauder (Algorithms for Multivariate...

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