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Computational Complexity Of Bilinear Forms

Computational Complexity of Bilinear Forms Algebraic Coding Theory and Applications to Digital Communication Systems

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Introduction --Computational Complexity of Bilinear Forms and Relation to Algebraic Coding Theory: Bilinear Forms and Linear Codes. Efficient Algorithms for the Aperiodic Convolution of Sequences. A New Class of Linear Codes.

Computational Complexity of Bilinear Forms : Algebraic ...

Computational complexity of bilinear forms : algebraic coding theory and applications of digital communication systems / Hari Krishna Berlin : Springer-Verlag, 1987 xvi, 166 p.. (@Lecture notes in control and information sciences) 0-387-17661-6 (ABES)02018364X: Material Type: Document: Document Type: Computer File: All Authors / Contributors ...

Computational complexity of bilinear forms : algebraic ...

Computational complexity of bilinear forms : algebraic coding theory and applications to digital communication systems.

Computational complexity of bilinear forms : algebraic ...

The asymptotic behaviour of the multiplicative complexity of bilinear forms from one special class over the polynomial rings is described, and in particular it is shown that there is no finite upper bound for the difference between the multiplicative complexity of a bilinear form from this class and the rank of this form.

Multiplicative complexity of a bilinear form over a ...

Computational Mathematic Bilinear Form Multiplicative Complexity These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves. This is a preview of subscription content, log in to check access.

Some bilinear forms whose multiplicative complexity ...

compute the set of bilinear forms $f_k(x,y) = x^T A_k y$, $k = 1 : p$ with the minimum number of nonscalar multiplications with no use of commutativity (noncommutative bilinear complexity) A nonscalar multiplication is a multiplication of the kind $s = (\sum_{i=1}^m \alpha_i x_i)(\sum_{j=1}^n \beta_j y_j)$, $\alpha_i, \beta_j \in F$ Remark: The set of bilinear forms is uniquely determined by the tensor $A = (a_{i,j,k})$.

The role of tensor rank in the complexity analysis of ...

Computational complexity is an important issue when implementing the algorithm in real-time application. In feed forward ANC structure, three stages of signal processing computation are performed. These stages of computation are (1) generating the control signal, (2) filtering the reference signal through the estimated secondary path, (3) ...

Comparison of Performance and Computational Complexity of ...

The computational complexity of the Chow form Gabriela Jeronimo 1, Teresa Krick , Juan Sabia and Mart´ın Sombra1,2 Abstract. We present a bounded probability algorithm for the computation of the Chow forms of the equidimensional components of an algebraic variety. In particular, this gives an alternative procedure for the

The computational complexity of the Chow form

Computational complexity theory focuses on classifying computational problems according to their inherent difficulty, and relating these classes to each other. A computational problem is a task solved by a computer. A computation problem is solvable by mechanical application of mathematical steps, such as an algorithm.. A problem is regarded as inherently difficult if its solution requires ...

Computational complexity theory - Wikipedia

On the Maximal Multiplicative Complexity of a Family of Bilinear Forms M. D. Atkinson and N. M. Stephens Department of Computing Mathematics University College Cardiff, U. K. Submitted by F. Robert ABSTRACT The number of nonscalar multiplications required to evaluate a general family of bilinear forms is investigated.

On the maximal multiplicative complexity of a family of ...

It is well known that the serial (nonscalar) complexity of the bilinear form computational problem is equal to the rank of the associated tensor. In this work we show that in the VLSI model it is possible to derive a lower bound to AT^2 for the bilinear form computational problem, which is connected to some properties of the associated tensor.

Area-time tradeoffs for bilinear forms computations in ...

Computational complexity of bilinear forms : algebraic coding theory and applications to digital communication systems

Computational complexity of bilinear forms : algebraic ...

The paper considers the complexity of bilinear forms in a noncommutative ring. The dual of a computation is defined and applied to matrix multiplication and other bilinear forms. It is shown that the dual of an optimal computation gives an optimal computation for a dual problem.

Duality Applied to the Complexity of Matrix Multiplication ...

Computational complexity of bilinear forms. Berlin ; New York : Springer-Verlag, 1987 (OCOLC)571588730 Online version: Krishna, Hari, 1960-Computational complexity of bilinear forms. Berlin ; New York : Springer-Verlag, 1987 (OCOLC)610212505: Document Type: Book: All Authors / Contributors: Hari Krishna

Computational complexity of bilinear forms : algebraic ...

The complexity of the computation of a pair of bilinear forms is characterized. A new, close to linear, estimate is obtained for the complexity of computing a product ... [Show full abstract] of ...

MULTIPLICATIVE CO~PLEXITY OF A PAIR OF BILINEAR FORMS AND ...

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