Fast Algorithms Arithmetic Computations Big Numbers

**tr-2014005: fast approximation algorithms for computations ...** - arithmetic time, versus the classical cubic time and the quadratic time of the previous advanced algorithms. we extend this progress to decrease the arithmetic time of the known numerical algorithms from quadratic to nearly linear for computations with a large class of matrices that **fast algorithms for multiple evaluations of the riemann ...** - fast algorithms for multiple evaluations of the riemann zeta function ... various arithmetic functions, such as 7r(i). the new zeta function algorithms use the fast fourier transform and a new method for the evaluation of certain ... some of the algorithms for computing the riemann zeta function and actual computations have dealt with values of ... **fast error-free algorithms for polynomial matrix computations** - fast error-free algorithms for polynomial matrix computations john s. baras, david c. macenany and robert l. munach ... floatin point arithmetic has yielded poor results. at present, ... leads us to consider algorithms for the division of polynomials over a unique factorization domain (ufd). **fast algorithms for high-precision computation of ...** - fast algorithms for ... computations can give theorems of the form: if x is rational, say x = p/q, then |q| > b for ... the arithmetic-geometric mean (agm) 4. newtonÃ¢Â€Â™s method 5. complex arithmetic 6. binary splitting 9. 1. argument reduction the elementary functions have addition **twofold fast arithmetic - arxiv** - twofold fast arithmetic 2014 (c) evgeny latkin free for non-commercial 1 twofold fast arithmetic ... manner: assess deviation in parallel with main computations. balancing cost versus reliability, we would ... we reuse these algorithms for Ã¢Â€ÂœfastÃ¢Â€Â• twofold arithmetic. particularly we **robust proximity queries: an illustration of degree-driven ...** - robust proximity queries: an illustration of degree-driven algorithm design* ... arithmetic computations with only 2b bits of precision (which is optimal). ... brute-force search method, while fast algorithms based on point-location in a preprocessed voronoi diagram or **matrix multiplication, a little faster - the hebrew university** - matrix multiplication, a liÃ¢Â€Â¡le faster regular submission elaye karstadt ... fast matrix multiplication algorithms have lower io-complexity ... algorithm additions arithmetic computations i/o-complexity strassen [37] 18 7nlog 2 7 6n2 6 p p3 n m log 2 7 m 18n2 +3m **fast rectangular matrix multiplication and applications** - arithmetic operations involved. there is a good motivation, however, to confine the study to bilinear algorithms. definition 2.1 (bilinear algorithms for matrix multiplication). given a pair of m_n and n_p matrices x=[x i, j], y=[y j, k], compute xy in the following order: evaluate first the linear forms in the x-variables and in the y ... **fast fourier transform algorithms of real-valued sequences ...** - 6 implementing fast fourier transform algorithms of real-valued sequences with the tms320 dsp platform in addition, because the dft of real-valued sequences has the properties of complex conjugate symmetry and periodicity, the number of computations in (7) can be reduced. **adaptive precision floating-point arithmetic and fast ...** - adaptive precision floating-point arithmetic and fast robust geometric predicates jonathan richard shewchuk october 1, 1997 ... the Ã¯Â¬Â•rst is to offer fast software-level algorithms for exact addition and multiplication of ... imate arithmetic. some of these computations have accuracy requirements that vary with their input. for **fast arithmetic for triangular sets: from theory to practice** - fast arithmetic for triangular sets: from theory to practice ... problems, from computations with algebraic numbers to the symbolic solution of poly-nomial or diÃ¯Â¬Â€erential systems. at the core of the algorithms for these objects, one Ã¯Â¬Â•nds a ... applications to higher-level algorithms. fast arithmetic for basic operations modulo **a highly e cient multicore floating-point fft architecture ...** - transform by matrix computations, the fft has a more modest number of computations per data element (this is one of the main reasons that it is fast"), so that per-formance of fft algorithms is typically limited by the data motion requirements rather than by the arithmetic computations. compared to dense linear algebra operations, ffts **fast vlsi algorithms for division and square root** - fast vlsi algorithms for division and square root s.e. mcquillan ... this can only be achieved by the design of fast and efficient arithmetic algorithms ... in this paper, new algorithms for division and square root are described. the new schemes are based on pre-scaling the operands and modifying **robust adaptive floating-point geometric predicates** - robust adaptive floating-point geometric predicates jonathan richard shewchuk school of computer science ... they employ new fast algorithms for arbitrary precision arithmetic that have a strong advantage over other software techniques in computations that manipulate values of extended but small precision. second, they are adaptive; ...

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