

# The Symmetric Group Representations Combinatorial Algorithms And Symmetric Functions

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this book brings together many of the important results in this field from the reviews a classic gets even better the edition has new material including the novelli pak stoyanovskii bijective proof of the hook formula stanley s proof of the sum of squares formula using differential posets fomin s bijective proof of the sum of squares formula group acting on posets and their use in proving unimodality and chromatic symmetric functions zentralblatt math

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this thesis is on the numerical computation of eigenvalues of symmetric hierarchical matrices the numerical algorithms used for this computation are derivations of the  $lr$  cholesky algorithm the preconditioned inverse iteration and a bisection method based on  $ldl$  factorizations the investigation of  $qr$  decompositions for  $h$  matrices leads to a new  $qr$  decomposition it has some properties that are superior to the existing ones which is shown by experiments using the  $hqr$  decompositions to build a  $qr$  eigenvalue algorithm for  $h$  matrices does not progress to a more efficient algorithm than the  $lr$  cholesky algorithm the implementation of the  $lr$  cholesky algorithm for hierarchical matrices together with deflation and shift strategies yields an algorithm that require  $o(n)$  iterations to find all eigenvalues unfortunately the local ranks of the iterates show a strong growth in the first steps these  $h$  fill ins makes the computation expensive so that  $o(n^2)$  flops and  $o(n^2)$  storage are required theorem 4.3.1 explains this behavior and shows that the  $lr$  cholesky algorithm is efficient for the simple structured  $hl$  matrices there is an exact  $ldlt$  factorization for  $hl$  matrices and an approximate  $ldlt$  factorization for  $h$  matrices in linear polylogarithmic complexity this factorizations can be used to compute the inertia of an  $h$  matrix with the knowledge of the inertia for arbitrary shifts one can compute an eigenvalue by bisectioning the slicing the spectrum algorithm can compute all eigenvalues of an  $hl$  matrix in linear polylogarithmic complexity a single eigenvalue can be computed in  $o(kn \log 4n)$  since the  $ldlt$  factorization for general  $h$  matrices is only approximative the accuracy of the  $ldlt$  slicing algorithm is limited the local ranks of the  $ldlt$  factorization for indefinite matrices are generally unknown so that there is no statement on the complexity of the algorithm besides the numerical results in table 5.7 the preconditioned inverse iteration computes the smallest eigenvalue and the corresponding eigenvector this method is efficient since the number of iterations is independent of the matrix dimension if other eigenvalues than the smallest are searched then preconditioned inverse iteration can not be simply applied to the shifted matrix since positive definiteness is necessary the squared and shifted matrix  $m - \mu_i I$  is positive definite inner eigenvalues can be computed by the combination of folded spectrum method and  $pinvit$  numerical experiments show that the approximate inversion of  $m - \mu_i I$  is more expensive than the approximate inversion of  $m$  so that the computation of the inner eigenvalues is more expensive we compare the different eigenvalue algorithms the preconditioned inverse iteration for hierarchical matrices is better than the  $ldlt$  slicing algorithm for the computation of the smallest

eigenvalues especially if the inverse is already available the computation of inner eigenvalues with the folded spectrum method and preconditioned inverse iteration is more expensive the Idlt slicing algorithm is competitive to h pinvit for the computation of inner eigenvalues in the case of large sparse matrices specially tailored algorithms for sparse matrices like the matlab function eigs are more efficient if one wants to compute all eigenvalues then the Idlt slicing algorithm seems to be better than the lr cholesky algorithm if the matrix is small enough to be handled in dense arithmetic and is not an hl 1 matrix then dense eigensolvers like the lapack function dsyev are superior the h pinvit and the Idlt slicing algorithm require only an almost linear amount of storage they can handle larger matrices than eigenvalue algorithms for dense matrices for hl matrices of local rank 1 the Idlt slicing algorithm and the lr cholesky algorithm need almost the same time for the computation of all eigenvalues for large matrices both algorithms are faster than the dense lapack function dsyev

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