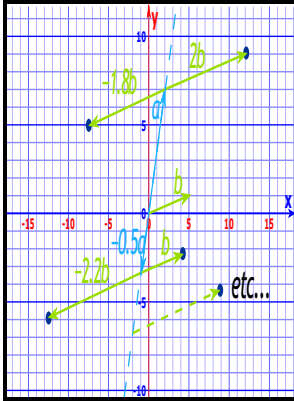


# On computing the rank function for a set of vectors

Dept. of Computer Science, University of Illinois at Urbana-Champaign - Basis Vectors in Linear Algebra



Description: -

-  
Electric power.  
Electric power systems.  
Kütt, Alex, 1921-  
Maxima and minima -- Data processing.  
Vector algebra -- Data processing.  
On computing the rank function for a set of vectors  
-  
Das wissenschaftliche Taschenbuch. Abt. Rechts- und Staatswissenschaft; Reihe 39  
McGraw-Hill electrical engineering series  
[Report] - UIUCDCS-R-75 ; 699  
On computing the rank function for a set of vectors  
Notes: Includes bibliographical references.  
This edition was published in 1975



Filesize: 70.103 MB

Tags: #sorting

## sorting

This is usually faster for knapsack-type lattices. Other Properties The rank can't be larger than the smallest dimension of the matrix.

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The library syntax is GEN mateigen GEN x, long flag, long prec. In general, the columns of the result form a basis of the lattice spanned by the columns of x.

## Generalized eigenvector

A great example where mathematics can tell us something that we can't easily imagine. Our first choice, however, is the simplest. What I mean here is in the previous example though the basis vectors were  $v_1 \ 1, 0$  and  $v_2 \ 0, 1$  there were only 2 vectors.

## Matrix Rank

Computations involving Gram-Schmidt vectors are approximate, with precision varying as needed Lehmer's trick, as generalized by Schnorr.

## Linear Algebra basics

The matrix U belongs to GL R. The library syntax is GEN matpermanent GEN x. Using transpositions, one can concatenate them vertically, but it is often simpler to use.

## Generalized eigenvector

} This is a special case of the next inequality. Computations involving Gram-Schmidt vectors are approximate, with precision varying as needed Lehmer's trick, as generalized by Schnorr.

## **Basis Vectors in Linear Algebra**

Unfortunately, it is a little difficult to construct an interesting example of low order.

## Related Books

- [Closing the productivity gap - a comparison of Northern Ireland, the Republic of Ireland, Britain, a](#)
- [Task Maths](#)
- [Cooperative research and development agreements \(CRADAs\) - transferring federal technologies to the](#)
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