

Holistic Complete Determinants

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Abstract:

In this research monograph, an algorithm to compute *Determinants* in a *Complete* and *Holistic* manner is presented.

Theory

For a matrix of size 3X3, say

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix}$$

we know the general formula for determinant of size 3X3 is given by

$$\det(A) = a_{11}(a_{22}a_{33} - a_{23}a_{32}) - a_{12}(a_{21}a_{33} - a_{23}a_{31}) + a_{13}(a_{21}a_{32} - a_{22}a_{31})$$

We re-write it in the fashion

$$\det(A) = a_{11}a_{22}a_{33} - a_{11}a_{23}a_{32} - a_{12}a_{21}a_{33} + a_{12}a_{23}a_{31} + a_{13}a_{21}a_{32} - a_{13}a_{22}a_{31}$$

We again re-write using a rule that in any term the first indexes must be in ascending order

$$\det(A) = a_{11}a_{22}a_{33} - a_{11}a_{23}a_{32} - a_{12}a_{21}a_{33} + a_{12}a_{23}a_{31} + a_{13}a_{21}a_{32} - a_{13}a_{22}a_{31}$$

We now inspect the first indexes of each of the three Product Terms of the first term and second indexes of each of the three Product Terms of the first term and we inspect the same for all the 6 terms.

Term		First Element Of The Product Term	Second Element Of The Product Term	Third Element Of The Product Term	Sign
$a_{11}a_{22}a_{33}$	First Index	1	2	3	+
	Second Index*	1	2	3	+
$-a_{11}a_{23}a_{32}$	First Index	1	2	3	+
	Second Index*	1	3	2	-
$-a_{12}a_{21}a_{33}$	First Index	1	2	3	+
	Second Index*	2	1	3	-
$a_{12}a_{23}a_{31}$	First Index	1	2	3	+
	Second Index*	2	3	1	+
$a_{13}a_{21}a_{32}$	First Index	1	2	3	+
	Second Index*	3	1	2	+
$-a_{13}a_{22}a_{31}$	First Index	1	2	3	+
	Second Index*	3	2	1	-

We can note from the above table that whenever, we are not going along the consecutive order of indexes (i.e., cyclic order) for the Second Index, we get a negative sign.

The number of Product Terms considered in the Standard 3x3 Determinant are only 6. However, we can form $9 \times 8 \times 7 = 504$ Product Terms for a 3x3 Determinant. Among these, the Determinants corresponding to

1, 2, 3 (6 cases* in Number for First Indexes being 1, 2, 3)

2, 3, 1 (6 cases* in Number for First Indexes being 2, 3, 1)

3, 1, 2 (6 cases* in Number for First Indexes being 3, 1, 2)

Therefore, excepting these $6+6+6=18$ cases out of 504 Possible Product Terms have Positive Sign and all other terms have Negative Sign. The Sum of all these Product Terms with their thusly **Computed Signs** is considered by the author as the value of a **Holistic Complete Determinant**.

Example: If we wish to find the determinant of size 10×10 , we have to consider $100 \times 99 \times 98 \times 97 \times 96 \times 95 \times 94 \times 93 \times 92 \times 91$ Terms and they should be gotten like above, i.e., the control index (the first indices) will be

1 2 3 4 5 6 7 8 9 10

and the second, third,, ninth , tenth indices will be all (positional) permutations of the above ten indices.

And we consider the terms with the second index order as thusly

1 2 3 4 5 6 7 8 9 10 (10 cases* in Number for First Indexes being 1 2 3 4 5 6 7 8 9 10)

2 3 4 5 6 7 8 9 10 1 (10 cases* in Number for First Indexes being 2 3 4 5 6 7 8 9 10 1)

3 4 5 6 7 8 9 10 1 2 (10 cases* in Number for First Indexes being 3 4 5 6 7 8 9 10 1 2)

4 5 6 7 8 9 10 1 2 3 (10 cases* in Number for First Indexes being 4 5 6 7 8 9 10 1 2 3)

5 6 7 8 9 10 1 2 3 4 (10 cases* in Number for First Indexes being 5 6 7 8 9 10 1 2 3 4)

6 7 8 9 10 1 2 3 4 5 (10 cases* in Number for First Indexes being 6 7 8 9 10 1 2 3 4 5)

7 8 9 10 1 2 3 4 5 6 (10 cases* in Number for First Indexes being 7 8 9 10 1 2 3 4 5 6)

8 9 10 1 2 3 4 5 6 7 (10 cases* in Number for First Indexes being 8 9 10 1 2 3 4 5 6 7)

9 10 1 2 3 4 5 6 7 8 (10 cases* in Number for First Indexes being 9 10 1 2 3 4 5 6 7 8)

10 1 2 3 4 5 6 7 8 9 (10 cases* in Number for First Indexes being 10 1 2 3 4 5 6 7 8 9)

as positive and all other $(100 \times 99 \times 98 \times 97 \times 96 \times 95 \times 94 \times 93 \times 92 \times 91 - 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10)$ terms to be negative. In these $(100 \times 99 \times 98 \times 97 \times 96 \times 95 \times 94 \times 93 \times 92 \times 91 - 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10)$ terms every index violates the cyclicity, i.e., consecutiveness order and therefore its term becomes negative. Using these indices and signs, we can concoct our terms and hence the determinant. In this fashion, we can compute the ***Determinant Of Any Large Size***, especially, we can do such computations in symbolic realm as well with ease.

Conclusion

One can note that such a Holistic Complete Determinant computed thusly will give us a ***Lot More Realistic Eigen Values*** when used in *Eigen Value Problems*. Also, one can *Hyper-Refine Hyper-Spectral (Quantum) Eigen Value Theory* using this Concept of *Holistic Complete Determinant*.

Moral

The Man Who Removes Mountains Starts By Picking Small Pebbles.

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Ramesh C. Bagadi

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Dedication

*All of the aforementioned Research Works, inclusive of this One are **Dedicated to Lord Shiva.***



