

A New Measure Of Standard Deviation

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Abstract

In this research investigation, the author has presented a Novel notion of '*Standard Deviation*'.

Theory

Usually, we calculate *Standard Deviation* with respect to the *Arithmetic Mean*. However, we should calculate it with respect to the *True Value*. Say, we have a Data Set that has as its elements the n measurements of certain observation as its values, when it is repeated say, n times. This Data Set could be *Normal* or not *Normal*. For this Data Set, we pick some *True Value* around the Data Set's *Arithmetic Mean* and compute the *Difference* of every element of this Data Set and the picked *True Value*. If this *Differences Data Set* has some *Negative* values, we add just a big enough positive constant to all the elements of this *Differences Data Set* such that all elements of this *Differences Data Set* are positive. We now plot the thusly gotten *Differences Data Set* and check if it is perfectly *Normal* or not. If it is not, we now iteratively keep changing (towards either side) the value of this picked *True Value*, till we get the corresponding *Differences Data Set* to be perfectly *Normal*. The *True Value* corresponding to the perfectly *Normal Differences Data Set* can be taken as the *True Mean* with respect to which we can calculate *Standard Deviation*.

References

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Moral

A True Prayer Rings The Bell At God's Home.

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Tribute

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Dedication

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