

*R^{th} Order Space Sequence Of Primes Based
Prime Metric Algebra*

November 20th, 2015.

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White Paper One (TRL 31)

of

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Abstract

In this research manuscript, the author has presented some basic definitions using which one can form the basis for algebraic operations in the Prime Metric Of Any R^{th} Order Space.

Theory

In this research manuscript, the author has presented some basic definitions using which one can form the basis for algebraic operations in the Prime Metric Of Any R^{th} Order Space.

Prime Metric Algebra

Firstly, we consider a *Set* S_{PS_R} representing a *Sequence Of Prime Numbers Of R^{th} Order Space* (considered in an increasing order). Representing the n^{th} element of this *Set* by $S_{PS_R}(n)$, we consider *Normalization of the Distance(s) and/ or Value(s)* $S_{PS_R}(n) - S_{PS_R}(n-1)$ according to the assignment $S_{PS_R}(n) - S_{PS_R}(n-1) = 1$. We can then write any *Non-Prime (i.e., a Composite) Number* $S_{PS_R}(j)$ Of R^{th} Order Space conforming to the condition $S_{PS_R}(n-1) < S_{PS_R}(j) < S_{PS_R}(n)$ such that

Definition 1:

$$\overline{S_{PS_R}(j)} = \left\{ n + \left[\frac{S_{PS_R}(j) - S_{PS_R}(n-1)}{S_{PS_R}(n) - S_{PS_R}(n-1)} \right] \right\} \text{Equation (1)}$$

Definition 2:

$$\overline{S_{PS_R}(j)} = \left\{ n + \left[\frac{S_{PS_R}(n-1)}{S_{PS_R}(j)} \right] \right\} \text{Equation (2)}$$

where $\overline{S_{PS_R}(j)}$ denotes the *Normalized Value Of $S_{PS_R}(j)$ in the Prime Metric Of R^{th} Order Space* }.

Now, that we have slated how to find the value of any number in the *Prime Metric Constructed Of Sequence Of Primes Of Certain Order Space*, all the *Algebraic Operations* can be performed as *Usual* on these thusly computed *Values* rendered in the *Prime Metric Constructed Of Sequence Of Primes Of Certain Order Space*, only after we *Transform*(see author's work for this *Transformation*) all the *Operands* (i.e., the values to be acted upon by *Mathematical Operators* of Concern) of the *Mathematical Expression(s)* in the *Same Prime Metric Constructed Of Sequence Of Primes Of Certain Order Space* Of Concern.

Moral

The *Lord*, your *Father* and the *Guardian Angel*, your *Mother* always know where you are !

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Acknowledgements

The author would like to express his deepest gratitude to all the members of his loving family, respectable teachers, en-dear-able friends, inspiring Social Figures, highly esteemed Professors, reverence deserving Deities that have deeply contributed in the formation of the necessary scientific temperament and the social and personal outlook of the author that has resulted in the conception, preparation and authoring of this research manuscript document.

Tribute

The author pays his sincere tribute to all those dedicated and sincere folk of academia, industry and elsewhere who have sacrificed a lot of their structured leisure time and have painstakingly authored treatises on Science, Engineering, Mathematics, Art and Philosophy covering all the developments from time

immemorial until then, in their supreme works. It is standing on such treasure of foundation of knowledge, aided with an iota of personal god-gifted creativity that the author bases his foray of wild excursions into the understanding of natural phenomenon and forms new premises and scientifically surmises plausible laws. The author strongly reiterates his sense of gratitude and infinite indebtedness to all such 'Philosophical Statesmen' that are evergreen personal librarians of Science, Art, Mathematics and Philosophy.

