1. Universal Relative Metric That Generates A Field Super-Set To The Fields Generated By Some Number Of Distinct Relative Metrics
2. Universal Function Generation

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Abstract

In this research investigation, the author has presented a theory of '*Universal Relative Metric That Generates A Field Super-Set To The Fields Generated By Various Distinct Relative Metrics*'.

Theory

Universal Sequence Of Primes Of 2nd Order Space {2, 3, 5, 7, 11, 13,...........}

Firstly, we consider a Set containing two known consecutive Primes starting from the beginning, namely, 2 and 3.

$S_1 = \{2, 3\}$

We now consider the Set formed by considering the ascending order arrangement of the elements of $S_1 = \{2, 3\}$

$S_{1A} = \{2, 3\}$

We now consider $S_{1A} = \{2, 3\}$ and implement the following Scheme

$\{2, 3\}$ which can be written as

$\{x, x+1\}$ we now normalize this set in the following fashion

$\left\{x, x+\frac{1}{x}\right\}$ which we re-write as

$\{x^2, x^2+1\}$ where, we have omitted the denominator.

We now substitute the value of $x = 2$ and get

$S_{1A\ POSSIBLE\ PRIMES\ MAP} = \{4, 5\}$

Since, the first element is a Squared number as can be observed, we can note that the second element of $S_{1A\ POSSIBLE\ PRIMES\ MAP} = \{4, 5\}$ is Prime.

We now re-write the Primes Set in ascending order as $S_2 = \{2, 3, 5\}$

We again consider all Two Element Sets of $S_2 = \{2, 3, 5\}$ and arrange the elements in them in ascending order.

These are

$$S_{2A1} = \{2, 3\}$$
$$S_{2A2} = \{3, 5\}$$
$$S_{2A3} = \{2, 5\}$$

When we implement the above Scheme in the box, we get

$$S_{2A1} = \{2, 3\} \ gives \ \Pr ime \ 5$$
$$S_{2A2} = \{3, 5\} \ gives \ \Pr ime \ 11$$
$$S_{2A3} = \{2, 5\} \ gives \ \Pr ime \ 7$$

We now re-write the Primes Set as $S_3 = \{2, 3, 5, 7, 11\}$

We again consider all Two Element Sets of $S_3 = \{2, 3, 5, 7, 11\}$ and arrange the elements in them in ascending order.

When we implement the above Scheme in the box on these sets, we get some more Primes.

We keep repeating this procedure till we find all the Primes up to a Desired Limit.

Note: We can also consider this whole investigation considering the Descending Order case, but this gives Primes only occasionally*.

(* For more on this, see author)

Universal Sequence Of Primes Of Any Integral Order Space

Definition

A *Number* is considered as a *Prime Number* in a *Certain Higher Order Space*, say R is Only factorizable into a Product of (R-1) factors {of (R-1) *Distinct Non-Reducible Numbers* (*Primes*)}.

Example: The general Primes that we usually refer to are Primes of 2nd Order Space.

Generating Universal Sequence Of Primes Of Any Integral Order Space, (Say Rth Order Space)

Firstly, we generate all the elements of Universal Sequence Of Primes of 2nd Order Space (Our Standard Primes, 2, 3, 5, 7, 11,…..) upto a desired limit using the Scheme detailed already.

We now consider this Set $USP2 = \{2, 3, 5, 7, 11, \ldots\ldots\ldots\ldots p_{USP2}\}$ and form another set $USP2_2 = \{\{2,3\},\{2,5\},\{2,7\},\{2,11\},\{3,5\},\{3,7\},\{3,11\},\{5,7\},\{5,11\},\{7,11\},\ldots\ldots\ldots\ldots\}$ which is gotten by considering all possible Two Element Sets Of $USP2$.

We now form another Set $USP3 = \{\{2\times 3\},\{2\times 5\},\{2\times 7\},\{2\times 11\},\{3\times 5\},\{3\times 7\},\{3\times 11\},\{5\times 7\},\{5\times 11\},\{7\times 11\},\ldots\ldots\ldots\ldots\}$ wherein we consider the product of the two elements of each set of the set $USP2_2$. This is Set of *Universal Sequence Of Primes Of Third Order Space.*

For finding the Universal Sequence Of Prime of Any Integral Order Space, say Rth Order Space, using $USP2$, we now form another Set $USP2_R$ which is gotten by considering all possible R Element Sets Of $USP2$.

We now form another Set $USPR$ wherein we consider the product of the R elements of each set of the set $USP2_R$. This is Set of *Universal Sequence Of Primes Of* Rth *Order Space.*

In this manner, we can generate all the elements of Universal Sequence Of Primes of Any Integral Order Space up to a desired limit.

Example:

First Few Elements Of Sequence's Of {*Multi Distinct Dimensional Primes*} Primes	**Of R^{th} Order Space**
{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, …}	R=2
{6 (3x2), 10 (5x2), 14 (7x2), 15 (5x3), 21 (7x3), 22 (11x2), 26 (13x2), 33 (11x3), 34 (17x2), 35 (7x5), 38 (19x2), 39, (13x3), 45 (9x5), ... }	R=3
{30 (5x3x2), 42 (7x3x2), 70 (7x5x2), 84 (7x4x3), 102 (17x3x2), 105 (17x3x2), 110 (11x5x2), 114 (19x3x2), 130 (13x5x2), ...}	R=4
210 (7x5x3x2), 275 (11x5x3x2), 482 (11x7x3x2), 770 (11x7x5x2), 1155 (11x7x5x3), …	R=5
…	…

Relative Prime Metric

The author calls this above method of finding the third number given any two numbers as the method of Relative Prime Metric Of 2nd Order.

Generating An Entire Field (of Sequence of Numbers) Given Any Two Numbers

Using this Scheme, one can find an entire Universe (of Sequence of Numbers) given any two numbers. The Universe (of Sequence of Numbers) generated conforms to Relative Prime Metric.

Given randomly, any two numbers, say $\{a, b\}$, we can find out the entire Universe of Numbers using the above Scheme, wherein we write $\{a, b\}$ as

We now consider $R_{1A} = \{a, b\}$ and implement the following Scheme

$\{a, b\}$ which can be written as

$\{a, a+(b-a)\}$ we now normalize this set in the following fashion

$\left\{a, a+\frac{(b-a)}{a}\right\}$ which we re-write as

$\{a^2, a^2+(b-a)\}$ where, we have omitted the denominator.

For Example, for the Set $R_{1A} = \{a, b\} = \{12, 31\}$

We now substitute the value of $a = 12$ and $b = 31$ get

$S_{1A\ POSSIBLE\ GENERATED\ ELEMENTS\ MAP} = \{144, 163\}$

We can note that the second element of $S_{1A\ POSSIBLE\ GENERATED\ ELEMENTS\ MAP} = \{144, 163\}$ is the Generated Element.

Furthermore, one can also modify the Scheme of Field Generation using $\left\{a, a+\frac{(b-a)}{a^f}\right\}$ instead of just $\left\{a, a+\frac{(b-a)}{a}\right\}$ where f can be considered as any Field of the Real, the Complex, the Integer, the Irrational, etc. Also, f can be some Function as well. The Field (of Numbers) Generated by f upon employing our Scheme is the Generated Field.

Example: Generating The Universal Sequence Of Primes Of N^{th} Order

To find the Universal Sequence Of Primes Of Any Integral Order Space, (say N^{th} Order Space) we simply consider modification to the Scheme to employ method of Relative Prime Metric Of N^{th} Order is simply changing $\left\{a, a+\frac{(b-a)}{a}\right\}$

to $\left\{a,\ a+\frac{(b-a)}{a^{N-1}}\right\}$. That is, the Standard Sequence of Primes found using this Scheme are Second Order Space Sequence Of Primes, where $\{a, b\}$ are the first two terms of the respective N^{th} Order Sequence of Primes which can be arrived at by reasoning mathematically.

Relative Metric

From the above, one can infer that Relative Metric Generator for the two terms $\{a, b\}$ can be given by $\left\{a,\ a+\frac{(b-a)}{a^{f}}\right\}$ with respect to the above Scheme, where f can be considered as any Field of the Real, the Complex, the Integer, the Irrational, etc. Also, f can be some Function as well. The Field (of Numbers) Generated by f upon employing our Scheme is the Generated Field.

Example: **The Field Of Prime Numbers**

We have already seen that taking $f = 2-1 = 1$ gives us the Field of 2nd Order Space Universal Sequence of Primes, i.e., {2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, …}

Also, one should note that All Natural Phenomenona manifest themselves in Conformation to Metric such as $\left\{a,\ a+\frac{(b-a)}{a^{f}}\right\}$. That is, this is their *Quantization Scheme*, only that different Phenomena have different f .

Example: **The Universal Field: Theory Of Every Thing**

Let us say, we have evaluated the f 's for the Electric Field, the Magnetic Field, the Nuclear Field, the Gravity Field, etc., (considering r different types of Fields) and they are given by

$f_1, f_2, f_3, f_4, \ldots\ldots\ldots\ldots\ldots\ldots\ldots f_{(r-1)}, f_r$.

We can then find the LCM (Universal Lowest Common Multiple** of all these f 's), say it is $f_{LCM\ of\ (i=1\ to\ r)}$.

We now Create a Relative Metric in the fashion

$$x + \frac{1}{x^{f_{LCM\ of\ (i=1\ to\ r)}}}$$

which can explain (upon employing the afore-stated Scheme) all the Fields Simultaneously.

Note:

f_i can be any Field of the Real, the Complex, the Integer, the Irrational, etc. Also, f_i can be some Function as well.

Note: See author's Section on the same

Universal Relative Metric That Generates A Field Super-Set To The Fields Generated By Some Number Of Distinct Relative Metrics

Universal Function Generation

{Universal Lowest Common Multiple}

Firstly, we consider two different fields generated by two distinct Relative Metrics,

$\left\{a_i + \frac{(a_j - a_i)}{a_i^{f_1}}\right\}$ and $\left\{a_i + \frac{(a_j - a_i)}{a_i^{f_2}}\right\}$ and some points of the Fields, namely,

$\left\{a_k = a_i^{f_1+1} + (a_j - a_i)\right\} \in F_1$ where F_1 is the Field generated by the Relative Metric $\left\{a_i + \frac{(a_j - a_i)}{a_i^{f_1}}\right\}$

$\left\{a_p = a_i^{f_1+1} + (a_k - a_i)\right\} \in F_1$ where F_1 is the Field generated by the Relative Metric $\left\{a_i + \frac{(a_j - a_i)}{a_i^{f_1}}\right\}$

$\left\{a_l = a_i^{f_2+1} + (a_j - a_i)\right\} \in F_2$ where F_2 is the Field generated by the Relative Metric $\left\{a_i + \frac{(a_j - a_i)}{a_i^{f_2}}\right\}$

We now say that for some Relative Metric characterized by

f_{12} which generates the Field F_{12}, covers (spans) the points $\{a_k, a_p, a_l\}$.

We can then write

$$\left\{a_l = a_k^{f_{12}+1} + (a_k - a_p)\right\} \in F_2, \in F_{12}$$

By substitution of the points $\{a_k, a_p\}$ (defined already) in the above equation, we can see that

$$f_{12} = \ln\left\{\frac{a_i}{a_k}\left(a_i^{f_2} - 1\right) + 1 - a_k\right\}$$ i.e.,

$$f_{12} = \ln\left\{\frac{a_i^{f_2+1} - a_i + a_k - a_k^2}{a_k}\right\}$$ i.e.,

$$f_{12} = \ln\left\{\frac{a_i^{f_2+1} - a_i + \left(a_i^{f_1+1} + (a_j - a_i)\right) - \left(a_i^{f_1+1} + (a_j - a_i)\right)^2}{a_k}\right\}$$

Where we can clearly see that f_{12} is a function of f_1 and f_2 as shown above.

One can note that using f_{12}, and the above scheme we can find $f_{(12)2 or 1}$ using some other points of the fields F_1, F_2. We can keep holistically using all the points of F_1, F_2 and find $f_{\text{that generates the elements of both } F_1 \text{ and } F_2}$. In a similar fashion, one can find $f_{\text{that generates the elements of both } F_1, F_2, F_3, \ldots\ldots\ldots\ldots, F_{n-1}, F_n}$ upto a certain limit.

This scheme can also be called as the Universal Function Generator as we can generate Universal Field common to many Fields.

Note: This concept can be successfully used in the construction of N-Quantum Cubit Of Variable Recursion Intelligence Order (Upcoming)

Scheme to Generate The Entire Elements Of A Field Given Three Elements Of It

Say, only any three elements of a Field characterized by the Field Generator Metric of the type $\left\{a,\, a+\frac{(b-a)}{a^f}\right\}$

are given, them being $\{a_i,\, a_j,\, a_k\}$, we find f from the equation $a_k = a_i^{f+1} + (a_j - a_i)$ employing the aforementioned scheme using the Field Generating Metric

of the type $\left\{a_i,\, a_i+\frac{(a_j-a_i)}{a_i^f}\right\}$. Once, we find f, we find the Intermediate elements a_r between any two elements a_p and a_p using the relation

$a_q = a_p^{f+1} + (a_r - a_p)$ where $a_p < a_r < a_q$. Once, we find this element a_r, using all possible combinations among the 4 elements present now, and using the relation of the type $a_q = a_p^{f+1} + (a_r - a_p)$, we find more and more intermediate elements, and so on, so forth. In this fashion, we find all the Intermediate Elements between any given three elements of the Field. Needless to mention, we can always generate elements of a Field on the Higher Side, given any two Elements of it, using the scheme detailed in the previous sections.

Complete Recursive Sub-Sets Found To Exhaustion Of A Set

The Example Of The Same Explaining The Quantization Scheme Of Any Universal Natural Manifestation In Holisticness

Primality Tree Of Any Set

Firstly, we consider any given Set S, we find all its Sub-Sets that have at least three elements in it. For each of these subsets $S_{1(n1)}$, we choose (approve) it, if the elements therein conform to a Field generated by the Metric Generator of the type $\left\{a_i, a_i + \frac{(a_j - a_i)}{a_i^f}\right\}$ or

$$a_k = a_i^{f+1} + (a_j - a_i)$$

where f runs from 1, 2, 3, 4, ……….until whichever value the subset calls for satisfying this constraint. If f is Positive Non-Integer Real say x, then it runs from x, $x+1$, $x+2$, $x+3$, $x+4$,………until whichever value the subset calls for satisfying this constraint. We again find all the Sub-Sets $S_{2(n2)}$ of each of the aforementioned Sub-Sets $S_{1(n1)}$ that have atleast three elements in it.

For each of these subsets $S_{2(n2)}$, we choose (approve) it, if the elements therein conform to a Field generated by the Metric Generator of the type $\left\{a_i, a_i + \frac{(a_j - a_i)}{a_i^f}\right\}$ or

$$a_k = a_i^{f+1} + (a_j - a_i)$$

where f runs from 1, 2, 3, 4, ...until whichever value the subset calls for for satisfying this constraint. If f is Positive Non-Integer Real say x, then it runs from x, $x+1$, $x+2$, $x+3$, $x+4$,.........until whichever value the subset calls for satisfying this constraint. We again find all the Sub-Sets $S_{3(n3)}$ of each of the aforementioned SubSets $S_{2(n2)}$ that have atleast three elements in it. For each of these subsets $S_{3(n3)}$, we choose (approve) it, if the elements therein conform to a Field generated by the Metric Generator of the type $\left\{a_i, a_i + \frac{(a_j - a_i)}{a_i^f}\right\}$ or

$$a_k = a_i^{f+1} + (a_j - a_i)$$

where f runs from 1, 2, 3, 4, ...until whichever value the subset calls for for satisfying this constraint. If f is Positive Non-Integer Real say x, then it runs from x, $x+1$, $x+2$, $x+3$, $x+4$,.........until whichever value the subset calls for satisfying this constraint. We keep repeating this procedure to exhaustion, till we can find no more of such sub-sets in the above fashion. The chosen and/ or approved sub-sets form the Complete Recursive Sub-Sets of the Set S which characterize and/ or Explain The Quantization Scheme Of Any Universal Natural Manifestation In Holisticness. The Collection of such Complete Recursive Sub-Sets Of S form the Primality Tree of S.

Note: We can also include all the distinct one element sets that do not form any field, also all the distinct two element sets that do not form any field as Part of the Primality Tree of the Set S and also as part of the Complete Recursive Sub-Sets of S.

Example: One can also find the Primality Tree of a Set for the case where f takes the values 2, 3, 5, 7, 11, 13,……….(the Second Order Sequence Of Primes) until whichever value the subset calls for for satisfying this constraint.

Example: One can also find the Primality Tree of a Set for the case where f takes the values {of (any) R^{th} Order Sequence Of Primes} until whichever value the subset calls for for satisfying this constraint.

Note: When we refer to the the Field Generating Metric of the type $\left\{a_i,\, a_i + \frac{(a_j - a_i)}{a_i^{\,f}}\right\}$ or

$$a_k = a_i^{f+1} + \left(a_j - a_i\right)$$

where f runs from 1, 2, 3, 4, ……….until whichever value the subset calls for satisfying this constraint, we mean that a_k, a_i, a_j, f are (supposedly) different for each such Recursive Sub-Set referred above. For simplicity, the author has denoted the Field Generating Metric by the expression used in general.

Note:

Also, for any Set, the f's comprising the various Field's of the Primality Tree of Any Set can take any Real Positive Values (Integer and Non-Integer as well).

The Universal Irreducible Any Field Generating Metric

Considering a Field generating Metric of the type $\left\{a_i,\, a_i + \frac{(a_j - a_i)}{a_i^{\,f}}\right\}$ or

$a_k = a_i^{f+1} + \left(a_j - a_i\right)$ where f is a positive Real Number and/ or any function.

We will show using the following Example that such a Field Generating Metric can always be expressed in terms of the Universal Standard Normal Prime

Sequence Type Field Generating Metric of the type $\left\{a_i,\, a_i + \frac{(a_j - a_i)}{a_i}\right\}$ or $a_k = a_i^2 + (a_j - a_i)$.

Example: One can note that one can express

$a_k = a_i^{f+1} + (a_j - a_i)$ as

$$a_k = \left\{\left\{\overbrace{\left\{a_i^2 + (a_j - a_i)\right\} - (a_j - a_i)}^{\text{Universal Standard Normal Prime Sequence Type Field Generating Metric}}\right\}^{\frac{f+1}{2}} + (a_j - a_i)\right\}$$

Example:

Also, one can note that, in a Field Generating Metric of the type $\left\{a_i,\, a_i + \frac{(a_j - a_i)}{a_i^f}\right\}$ or

$a_k = a_i^{f+1} + (a_j - a_i)$ where f is a positive Real Number and/ or any function, we can re-write a_i^f as

$a_i^f = \sum_{k=1}^{s} \gamma_k a_i^k$ where $k = 1, 2, 3, 4, ..., r$ where s is a number that one can choose for achieving a desired level of Least Count Accuracy in the analysis of concern. and, γ_k are constants.

Universal Natural Memory Embedding

By now, from the above detailed author's literature, one can note that all Universal Natural Manifestations are functions of the Universal Standard Normal Prime Sequence (Sub-Sets) Generating Metric. Also, since man made aspects are also eigen images of man's manifestations and as man is a natural manifestation, man made aspects also are (almost) functions of the Universal

Standard Normal Prime Sequence (Sub-Sets) Generating Metric, to a good degree. Therefore, most Data (man made) can be compactly embedded using the f's of the Field Generating Metric.

To this end, one can first label all the data (of a given data set) with respect to a co-ordinate system which characterizes the Data Storage Format. We now integrate this Data Co-ordinate with the Data point in such an optimal fashion* such that the Data point with its Data co-ordinate is represented by one new Data point. In this fashion, we update all the Data points of the given Data Set. Using the author's above detailed literature, we now find all the Field's i.e., f's present in the given data set. Let these be m in number. We now find the LCM (Lowest Common Multiple) of all these field's f's and find another field $f_{(LCM\ of\ f_{i=1\ to\ m})}$.

Therefore, we can summarily represent any Data Set uniquely by only one field (characterized by the first two elements and its f) but along with the appropriate scaling factors , their two locations (starting and ending of the field f_i) and the discreteness summarizing indices, all locations determined with respect to the position number of the element in the thusly quantized field, if they were in ascending order.

Once, we do this, we find the Universal Primality tree of the Data Set. Also, we use appropriate labels to denote the discrete nature, if any of the field's elements present therein.

Alternately, one can summarily represent any entire branch of the Primality tree by the first two elements and the f of the branch.

In this fashion, one can compress data efficiently and can denote entire data set by a Data Set generating much smaller data set. Also, one can apply this procedure on this compacted data set again and we can continuously repeat such compaction again and again and so on so forth till we can no more do so. This final compacted set is the Universal Naturally Memory Wise Embedded Set for any given set.

*one that gives the best memory Embedding efficiency.

Universal Holistic Beauty Primality Tree Of Any Set

For a given Set, when every branch of its Primality Tree inclusive of its main stem is Non-Discrete, i.e., does not have any element missing along the Field generated by the Metric characterized by the f value of the branch, starting from the beginning value until the greatest element of the branch in this field, then such a Primality Tree can be considered to be the Universal Holistic Beauty Primality Tree Of The Set.

Universal Growth Of Any Given Set

Case 1: Universal Holistic Beauty Primality Tree Of Any Set

In this case,given any Set, we consider One Step Growth in the following fashion.We first find its Primality Tree and if it is a Universal Holistic Beauty Primality Tree of the given Set, we consider its main stem and add one next consecutive appropriate (that can be computed by using the branch field's f) field element to the higher side of this main stem branch. We now re-evaluate the Primality Tree using this new addition to the Set. The resulting Set is the One-Step Growth of the Set whose Primality Tree is of the Universal Beauty Tree Primality kind. One can ascribe a value of 'Pi' to such Universal Beauty Tree Primality Set. Also, one can develop a method (see author's upcoming research paper) to measure the 'Pi' Value of Any Set with respect to its Universal Holistic Primality Tree Set.

Universal Non-Optimal Evolution Of Any Set With Respect To A Given Wall Condition

Case 1: Universal Holistic Beauty Primality Tree Of Any Set

In this case,given any Set, we consider One Step Growth in the following fashion.We first find its Primality Tree and if it is a Universal Holistic Beauty Primality Tree of the given Set, we consider its main stem and add^ one next consecutive appropriate (that can be computed by using the branch field's f) field element to the higher side of this main stem branch. We now re-evaluate the Primality Tree using this new addition to the Set. The resulting Set is the One-Step Growth of the Set whose Primality Tree is of the Universal Beauty Tree Primality kind.

When Growth is blocked at one or more locations at the higher ends of the branches of the Primality Tree which can be even at the higher end of the main stem, the one step growth considered in this case is one step evolution. For example, if the main stem higher end is blocked, we can consider such above type addition^ for the next (penultimate) biggest main stem, and then re-evaluate its Primality Tree. Actually, when growth is blocked, the Set's Primality Tree becomes Non-Universal Holistic Beauty Primality Tree of the given Set and the Evolution of such Sets will be published soon in the author's upcoming research works.

Moral

The Fear Of Your Lord Is The Beginning Of Wisdom.

References

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Dedication

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