Evolution Through Quantization

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Abstract

In this research investigation the authors shed light on a novel aspect called '*QuantizedEvolution*'.

Theory I

One can consider the Sequence of Primes In Higher Spaces (of say order N) [1], [2], arranged in an ascending order and can find the bounds along this sequence of a given specific order such that, on the left of this bound there exists a completely perfect Integrally de-magnified (contracted, i.e., multiples of 1/n, where n=2 or 3 or 4or etc,.) *Universe In Parallel*(Sub-Set) of this considered sequence Set.This can be called as '*Evolution Quantization*'. By '*Universe In Parallel*', we mean a sub-set belonging to a Sequence Of Primes of Order less than (N) that of a set belonging to a Sequence Of Primes Of Order, say , N such that the set is gotten by considering magnification of the sub-set by some integral number. Simply put, it is $\{p_i\}$ for the given set $\{p_{i+1}\}$or rather in a generic form, it is any $\{p_s\}$ for the given set $\{p_r\}$ where $s < r$. For example one can do so using the following equation [3]:

Formula For Sequence Of Primes Of any R^{th} Order Sequence Of Primes

One can also note that the Sequence Of Primes Of any R^{th} Order Sequence Of Primes can be gotten using the following formula which was constructed using observation.

$$\{p_{i+1}\} = \sum_{k=j+1}^{\infty}\left\{\{p_i(k)\}\{p_i\} - \sum_{j}^{\infty} p_i(j)\right\} \quad (1)$$

where $p_i(j)$represents the jth element of the ith Order Dimension (Space) Sequence Of Primes.

As we have justnoted that since Prime Sequences ofany Order Spacehave bounds in them, weshould notethat if we consider any aspect's Universal Natural Recursion Scheme [3] of concern andslateit in the Prime Metric (of appropriate Higher Order Space), we cannotethat such bounds are imposed on the Hyper-Primality Set (see authors research papers on '*Hyper-Primality Set*

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Of Any Set' at www.vixra.org in the General Mathematics category at www.vixra.org/author/ramesh_chandra_bagadi) of the Universal Natural Recursion Schemeof concern in accordance with the bounds in the PrimeSequences of theconcerned (Higher) Order Space. And hence theevolution [4] scheme is quantized inthis fashion.

Theory II

For example, if we consider any set 'S', we can note that, we can categorize this set as the union of many sub-sets of 'S' such that each such sub-set has all its elements belonging to a Sequence of Primes of certain distinct order space. Furthermore, we can arrange the elements of each such sub-set in an increasing order. Also, one can note that such sub-sets may be discontinuous when compared with their parent Prime Metric Bases of theconcerned (Higher) Order Space. For each of the aforementioned discontinuous sub-sets {when they are compared with their parent Prime Metric Bases (Sequence Of Primes) of the concerned (Higher) Order Space}, we can find a non-discontinuous {when they are compared with their parent Prime Metric Bases (Sequence Of Primes) of the concerned (Higher) Order Space} *Universe In Parallel* Sub-Set of these discontinuous sub-set in some lower (and/ or higher) Sequence Of Primes Of Some Higher Order Space.The advantage of doing this is in this continuous state we can simply add its next element characteristic of the sub-set sequence(belonging to a Sequence of Primes of certain appropriate distinct order space) to this thusly formed sub-set when we consider one step evolution. We now again re-transform this sub-set back to its original Sequence Of Primes Of Certain Order Space basis in which it was discontinuous. Now, using the aforementioned '*Evolution Quantization*' constraint we categorically mark bounds in such sub-sets such that on the left of this bound there exists a completely perfect Integrally de-magnified (contracted, i.e., multiples of 1/n, where n=2 or 3 or 4or etc,.) *Universe In Parallel*(Sub-Set) of suchSub-Sets. Now, when we consider one step evolution of each of such sub-sets, we basically add the next element characteristic of the sub-set sequence (belonging to a Sequence of Primes of certain appropriate distinct order space) to the sub-set.

Theory III

One can note that '*Evolution*' can also be considered in the following fashion for a system that is weakly interacting. By weak interaction, we mean the gradient

function of the '*Recursional Field Intensity Strength Function*' (that is a unique characteristic value for any distinct space-time co-ordinate of concern within the bounds of the space-time co-ordinates of the system of concern) of the system that drives the self-evolution of the system. By '*Recursional Field Intensity Strength Function*' we mean the distribution function of the Recursion Schemes{central asymmetric wave (with prime [of specific order of concern of Sequence of Primes] magnitudes for the crest and trough) property}of the spread span of the system of concern considered along the Prime Metric averaged with respect to space and time (and also we can consider the observers Local Human Collective Consciousness as well observed at any point of concern).

Now, for example, consideringany set $\{S\}$of concernsuch that

$$\{S\} = \left\{ {}^{1}p_5\gamma_1, \; {}^{2}p_2\gamma_2, \; {}^{5}p_1\gamma_3, \; {}^{3}p_2\gamma_4, \; {}^{1}p_3\gamma_5, \; {}^{3}p_1\gamma_6, \; {}^{4}p_5\gamma_7 \right\}$$

where ${}^{k}p_i\gamma_j$ denotes that it is j^{th} element of the set $\{S\}$ which also belongs as the kth element of the ith Order Sequence Of Primes when the elements of this i^{th} OrderSequence Of Primes are slated in an increasing order along the Prime Metric Bases, characteristic of thei^{th} Order Sequence Of Primes.

We can also write the set $\{S\}$ as

$$\{S\} = \left\{ \left\{ {}^{1}p_5\gamma_1, \; {}^{4}p_5\gamma_7 \right\} \cup \left\{ {}^{1}p_3\gamma_5 \right\} \cup \left\{ {}^{2}p_2\gamma_2, \; {}^{3}p_2\gamma_4 \right\} \cup \left\{ {}^{5}p_1\gamma_3, \; {}^{3}p_1\gamma_6 \right\} \right\}$$

Now, one can note that the Set $\{S\}$ permeates in the Recursion Field Intensity Strength Function given by say, $\alpha \leftrightarrow 1 \leftrightarrow \beta$ and therefore the Quantized Incremental Energy (Least Count) of this Recursion Scheme, say L_R imposes a constraint on the evolutionary growth of the set $\{S\}$ for the next instant. That is, only one among the sub-set sequences listed above, each belonging to a specificdistinct order of Sequence Of Primes whose (the sub-set's) Energy Quantization Scheme along the corresponding respective Prime Metric (characteristic of the specific distinct order of Sequence Of Primes of concern) during Evolutionary Growth Scheme will grow whose such necessary needed energy to grow is less than or equal toL_R.However, one should note that constraints imposed by [4] must be taken care of here. Also, [5]can also be used for simplifying the afore-detailed analysis to a great extent.

References

1.http://www.vixra.org/abs/1502.0100'*ThePrime   Sequence   Generating Algorithm*'.

2.http://www.vixra.org/abs/1509.0291'*The Prime Sequence's (Of Higher Order Space's) Generating Algorithm*'.

3.http://www.vixra.org/abs/1510.0006'*Universal Natural Recursion Schemes Of Rth Order Space Prime Sequence's (Of Higher Order Space's) Generating Algorithm*'.

4.http://www.vixra.org/abs/1510.0030 '*Universal One Step Natural Evolution And/ Or Growth Scheme Of Any Set Of Concern And Consequential Evolution Quantization Based Recursion Scheme Characteristically Representing Such Aforementioned Evolution And/ Or Growth*'.

5.http://www.vixra.org/abs/1510.0091'*Recursive Consecutive Element Differential Of Prime Sequence (And/ Or Prime Sequences In Higher Order Spaces) Based Instantaneous Cumulative Imaging Of Any Set Of Concern*'.

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Note