Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)

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Abstract

In this research investigation, the author has presented the scheme for constructing '*Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness*'.

Theory

One can note that one can construct 'The Complete Recursive Subsets Of Any Set Of Concern' in the following fashion:

We firstly consider any set of concern, say 'S', with cardinality S_n. For this set 'S', we can note that, we can categorize this set as the union of many sub-sets $S_{\subset\{SP(R)\}_p}$ of 'S' such that each such sub-set has all its elements belonging to a Sequence of Primes of certain distinct order (Number) space. In the notation of such sub-set as $S_{\subset\{SP(R)\}_p}$, $\subset\{SP(R)\}_p$ refers to the fact that, it is a sub-set Of Sequence Of Primes of Rth order Space.

Let these sub-sets be 'p' in number. Let each of such sub-set have ${}^pS_{r_p}$ cardinality where ${}^pS_{r_p}$ denotes the cardinality of the aforementioned type of pth sub-set of S which has r_p number of elements in it.

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 the concerned (Higher) Order Space.

We now consider one of such distinct subsets of S, say $S_{\subset\{SP(R)\}_p}$, that have '$\left\{S_{\subset\{SP(R)\}_p}\right\}_{m_p}$' number of elements of $S_{\subset\{SP(R)\}_p}$, in them. Let these sets be ${}^i\left\{S_{\subset\{SP(R)\}_p}\right\}_{m_p}$ where 'i' denotes the number that spans the numbers 1 through number of such sets possible for every such sub-set $S_{\subset\{SP(R)\}_p}$. We now consider each of the sets ${}^i\left\{S_{\subset\{SP(R)\}_p}\right\}_{m_p}$ and find the one step Evolution and/ or Growth of it using [4] such that these elements must be those that also belong to the given set $S_{\subset\{SP(R)\}_p}$. We call such sets the 'Complete Recursive '$\left\{S_{\subset\{SP(R)\}_p}\right\}_{m_p}$ Number Of

Elements' Sets of $S_{\subset\{SP(R)\}_p}$. We now, again implement the same procedure above and find all the Complete Recursive Sets of set S for '$S_{\subset\{SP(R)\}_p}$' for all p.

Furthermore, we can arrange the elements of each such thusly computed 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 the concerned (Higher) Order Space when aligned along the Prime Metric Bases of the concerned (Higher) Order Space.

Now, one can consider the following three cases:

1. Now, one can consider all these sets thusly formed to be the '*Orthogonal Universes In Parallel In Completeness*' of the given set of concern which can be achieved by carefully, adding (Unioning) all the one element thusly computed sub-sets of any order Sequence Of Primes, adding (Unioning) all the two elements thusly computed sub-sets of any order Sequence Of Primes, adding (Unioning) all the three elements thusly computed sub-sets of any order Sequence Of Primes, and so on so forth, until we reach the state where we have added (Unioned) all the 'maximum possible' elements thusly computed sub-sets of any order Sequence Of Primes.
   By this we mean what is illustratedby the following example.

Let the elements of any set S be arranged in this fashion after decomposition of its elements into its respective distinct order (north left super-script) Sequence Of Primes Basis (right south sub-script).

${}^{1}\gamma_1$	${}^{1}\gamma_2$	${}^{1}\gamma_3$	${}^{1}\gamma_4$	${}^{1}\gamma_5$	
1					All Possible Sub-Sets
	2				
		3			
			4		
				5	
1	2				
	2	3			
		3	4		

			4	5	
1		3			
1			4		
1				5	
	2		4		
	2			5	
1		3			
		3		5	
	2		4		
1				5	
	2			5	
		3		5	
Similarly, we denote all the 3 element sub-sets and 4 element Sub-Sets…					
$^{2}\gamma_{1}$	$^{2}\gamma_{2}$	$^{2}\gamma_{3}$		$^{2}\gamma_{5}$	
1					**All Possible Sub-Sets**
	2				
		3			
				5	
1	2				
	2	3			
		3			
				5	
1		3			
1					
1				5	
	2				
	2			5	
1		3			
		3		5	
	2				
1				5	
	2			5	
		3		5	
Similarly, we denote all the 3					

element sub-sets and 4 element Sub-Sets…					
$^{3}\gamma_{1}$		$^{3}\gamma_{3}$	$^{3}\gamma_{4}$	$^{3}\gamma_{5}$	
1					All Possible Sub-Sets
		3			
			4		
				5	
1					
		3			
		3	4		
			4	5	
1		3			
1			4		
1				5	
			4		
				5	
1		3			
		3		5	
			4		
1				5	
				5	
		3		5	
Similarly, we denote all the 3 element sub-sets and 4 element Sub-Sets…					

We now simply add (Union) all the sub-sets of same size (wherein their elements belong to the same position in the Prime Metric Basis) of all the corresponding orders (of concern) Sequence Of Primes. It should be understood that vacant positions means we should add (union) a null set. Therefore, the Complete Set Of Orthogonal Universes In Parallel In Completeness for the given set is given by:

$\{^{1}\gamma_{1}, ^{2}\gamma_{1}, ^{3}\gamma_{1}\}$

$\{{}^{1}\gamma_2, {}^{2}\gamma_2\}$

$\{{}^{1}\gamma_3, {}^{2}\gamma_3, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_4, {}^{2}\gamma_4, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_5, {}^{2}\gamma_5, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_2, {}^{2}\gamma_1, {}^{2}\gamma_2, {}^{3}\gamma_1\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_3, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_3, {}^{1}\gamma_4, {}^{2}\gamma_3, {}^{3}\gamma_3, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_4, {}^{1}\gamma_5, {}^{2}\gamma_5, {}^{3}\gamma_4, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_3, {}^{2}\gamma_1, {}^{2}\gamma_3, {}^{3}\gamma_1, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_4, {}^{2}\gamma_1, {}^{3}\gamma_1, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_5, {}^{2}\gamma_1, {}^{2}\gamma_5, {}^{3}\gamma_1, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_4, {}^{2}\gamma_2, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_5, {}^{2}\gamma_2, {}^{2}\gamma_5, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_3, {}^{2}\gamma_1, {}^{2}\gamma_3, {}^{3}\gamma_1, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_3, {}^{1}\gamma_5, {}^{2}\gamma_3, {}^{2}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_4, {}^{2}\gamma_2, {}^{3}\gamma_2, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_5, {}^{2}\gamma_1, {}^{2}\gamma_5, {}^{3}\gamma_1, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_5, {}^{2}\gamma_2, {}^{2}\gamma_5, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_3, {}^{1}\gamma_5, {}^{2}\gamma_3, {}^{2}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_2, {}^{1}\gamma_3, {}^{2}\gamma_1, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{3}\gamma_1, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_3, {}^{1}\gamma_4, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{3}\gamma_3, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_3, {}^{1}\gamma_4, {}^{1}\gamma_5, {}^{2}\gamma_3, {}^{2}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_4, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_2, {}^{1}\gamma_4, {}^{2}\gamma_1, {}^{2}\gamma_2, {}^{3}\gamma_1, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_2, {}^{1}\gamma_5, {}^{2}\gamma_1, {}^{2}\gamma_2, {}^{2}\gamma_5, {}^{3}\gamma_1, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_3, {}^{1}\gamma_5, {}^{2}\gamma_1, {}^{2}\gamma_3, {}^{2}\gamma_5, {}^{3}\gamma_1, {}^{3}\gamma_3, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_3, {}^{1}\gamma_4, {}^{2}\gamma_1, {}^{2}\gamma_3, {}^{3}\gamma_1, {}^{3}\gamma_3, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_4, {}^{1}\gamma_5, {}^{2}\gamma_1, {}^{2}\gamma_5, {}^{3}\gamma_1, {}^{3}\gamma_4, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_5, {}^{1}\gamma_2, {}^{1}\gamma_3, {}^{2}\gamma_5, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{3}\gamma_5, {}^{3}\gamma_3\}$

$\{{}^{1}\gamma_5, {}^{1}\gamma_3, {}^{1}\gamma_1, {}^{2}\gamma_5, {}^{2}\gamma_3, {}^{2}\gamma_1, {}^{3}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_1\}$

$\{{}^{1}\gamma_1, {}^{1}\gamma_2, {}^{1}\gamma_3, {}^{1}\gamma_4, {}^{2}\gamma_1, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{3}\gamma_1, {}^{3}\gamma_3, {}^{3}\gamma_4\}$

$\{{}^{1}\gamma_2, {}^{1}\gamma_3, {}^{1}\gamma_4, {}^{1}\gamma_5, {}^{2}\gamma_2, {}^{2}\gamma_3, {}^{1}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_4, {}^{3}\gamma_5\}$

$\{{}^{1}\gamma_3, {}^{1}\gamma_4, {}^{1}\gamma_5, {}^{1}\gamma_1, {}^{2}\gamma_3, {}^{2}\gamma_5, {}^{1}\gamma_1, {}^{3}\gamma_3, {}^{3}\gamma_4, {}^{3}\gamma_5, {}^{3}\gamma_1\}$

$\{{}^{1}\gamma_5, {}^{1}\gamma_3, {}^{1}\gamma_2, {}^{1}\gamma_1, {}^{2}\gamma_5, {}^{2}\gamma_3, {}^{2}\gamma_2, {}^{3}\gamma_5, {}^{3}\gamma_3, {}^{3}\gamma_1\}$

$\{{}^{1}\gamma_5, {}^{1}\gamma_4, {}^{1}\gamma_2, {}^{1}\gamma_1, {}^{2}\gamma_5, {}^{2}\gamma_2, {}^{1}\gamma_1, {}^{3}\gamma_5, {}^{3}\gamma_4, {}^{3}\gamma_1\}$

2. **[Furthermore, one can consider such adding (Unioning) based on their co-ordinates in the Prime Metric Bases corresponding to the Sequence Of Primes of Rth Order Space (*Just a surmise*)].**

One can also consider such thusly computed above Complete Set Of Recursive (Sub)-Sets of S computed by specially considering $\{S_{\subset\{SP(R)\}_p}\}_{m_p}$ to span along the Sequence Of Primes [1] {and/ or Sequence Of Primes In Higher Order Space(s) [2] for appropriate case of concern}.

One can also implement the same above and find the same using Primes In Higher Order Space(s).

Using this theory, one can find the 'Life Primality' {see http://www.vixra.org/author/ramesh_chandra_bagadi } of any set of concern and also this can also be especially used to analyze the wave functions of atomic and sub-atomic particles perfectly.

Another important aspect is that using this one can note that any 'True Information' would be consistent with respect to the 'Time *Recursion Scheme*' [3] and/ or its Universes In Parallel. Any untrue information (inclusive of False Copy Quantum Signatures Of Any Aspect Of Concern) would result in Incomplete Recursive Sets of the given set with respect to the 'Time Recursion Scheme' and/ or it's Universes In Parallel.

In a similar fashion, one can even find such '*Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness'* on its to be *Evolved* And/ Or *Grown* side by simply considering *Evolution* of the given set using [4].

References

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Note

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