Insights On Universal Normalization Formula

January 18th, 19th, 28th, 29th, 30th 2016 Anno Domini

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White Paper One {TRL108}
of
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Abstract

In this research manuscript, the author has presented some '*Insights On Universal Normalization Formula*'.

Theory

With respect to author's '*Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2nd Order Space)*' shown in the Blue Box Below,

Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2nd Order Space)

Abstract

In this research monograph, the author presents a novel '*Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2nd Order Space)*'.

Theory

One can note that we can represent any *Asymmetric Universal Recursion Scheme* as

$$\{x\} \leftrightarrow \{x-a\} \leftrightarrow \{x+b\}$$

One can simply *Normalize* it by simply doing the operation

$$\{x\} \leftrightarrow \left\{x-\left(\frac{a}{x}\right)\right\} \leftrightarrow \left\{x+\left(\frac{b}{x}\right)\right\}$$

i.e.,

$$\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$$

Now, we consider the first three consecutive numbers starting from 0, i.e., {0, 1, 2} (that are supposed to indicate some (*Universal Recursion Scheme*) $0 \leftrightarrow 1 \leftrightarrow 2$.

We now re-write all possible 6 arrangements of $0 \leftrightarrow 1 \leftrightarrow 2$ namely:

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** x, a, b	***Result***	***Finalized Pick From The Result***
$0 \leftrightarrow 1 \leftrightarrow 2$	$\{0\} \leftrightarrow \left\{\frac{(0)^2-(-1)}{0}\right\} \leftrightarrow \left\{\frac{(0)^2+2}{0}\right\}$	$x=0,\ a=-1,\ b=2$	Undefined	
$1 \leftrightarrow 2 \leftrightarrow 0$	$\{1\} \leftrightarrow \left\{\frac{(1)^2-(-1)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2-1}{1}\right\}$	$x=1,\ a=-1,\ b=-1$	$1 \leftrightarrow 2 \leftrightarrow 0$	No New Prime Number To Select
$2 \leftrightarrow 0 \leftrightarrow 1$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(2)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2-1}{2}\right\}$	$x=2,\ a=2,\ b=-1$	$4 \leftrightarrow 2 \leftrightarrow 3$	*3* (Prime Number Nearest to 2)
$1 \leftrightarrow 0 \leftrightarrow 2$	$\{1\} \leftrightarrow \left\{\frac{(1)^2-(1)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2+1}{1}\right\}$	$x=1,\ a=1,\ b=1$	$1 \leftrightarrow 0 \leftrightarrow 2$	No New Prime Number To Select

$0 \leftrightarrow 2 \leftrightarrow 1$	$\{0\} \leftrightarrow \left\{\frac{(0)^2-(-2)}{0}\right\} \leftrightarrow \left\{\frac{(0)^2+1}{0}\right\}$	$x=0, a=-2, b=1$	Undefined	
$2 \leftrightarrow 1 \leftrightarrow 0$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-1}{2}\right\} \leftrightarrow \left\{\frac{(2)^2-2}{2}\right\}$	$x=2, a=1, b=-2$	$4 \leftrightarrow 3 \leftrightarrow 1$	***3*** (Prime Number Nearest to 2)

Now, noting that the next nearest *PrimeNumber* found being 3, we now use the set {0, 1, 2} given in the beginning and use its two highest {***Prime***} numbers and couple the recently found 3 to form a new set {1, 2, 3} and consequently a *Asymmetric Universal Recursion Scheme* $1 \leftrightarrow 2 \leftrightarrow 3$. Using the same above scheme we again find a similar table for $1 \leftrightarrow 2 \leftrightarrow 3$

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** x, a, b	***Result***	***Finalized Pick From The Result***
$1 \leftrightarrow 2 \leftrightarrow 3$	$\{1\} \leftrightarrow \left\{\frac{(1)^2-(-1)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2+2}{1}\right\}$	$x=0, a=-1, b=2$	$1 \leftrightarrow 2 \leftrightarrow 3$	No New Prime Number To Select
$2 \leftrightarrow 3 \leftrightarrow 1$	$\{1\} \leftrightarrow \left\{\frac{(2)^2-(-1)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2-1}{2}\right\}$	$x=1, a=-1, b=-1$	$2 \leftrightarrow 5 \leftrightarrow 3$	***5*** (Prime Number Nearest to 3)
$3 \leftrightarrow 1 \leftrightarrow 2$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-(2)}{3}\right\} \leftrightarrow \left\{\frac{(3)^2-1}{3}\right\}$	$x=2, a=2, b=-1$	$9 \leftrightarrow 7 \leftrightarrow 8$	***7*** (Prime Number greater than 5)
$2 \leftrightarrow 1 \leftrightarrow 3$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(1)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2+1}{2}\right\}$	$x=1, a=1, b=1$	$4 \leftrightarrow 3 \leftrightarrow 5$	***5*** (Prime Number Nearest to 3)
$1 \leftrightarrow 3 \leftrightarrow 2$	$\{1\} \leftrightarrow \left\{\frac{(1)^2-(-2)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2+1}{1}\right\}$	$x=0, a=-2, b=1$	$1 \leftrightarrow 3 \leftrightarrow 2$	No New Prime Number To Select
$3 \leftrightarrow 2 \leftrightarrow 1$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-1}{3}\right\} \leftrightarrow \left\{\frac{(3)^2-2}{3}\right\}$	$x=2, a=1, b=-2$	$4 \leftrightarrow 3 \leftrightarrow 1$	No New Prime Number To Select

Now, noting that the next nearest Prime number found being 5, we now use the set {1, 2, 3} given in the beginning and use its two highest {***Prime***} numbers and couple the recently found 5 to form a new set {2, 3, 5} and consequently a *Asymmetric Universal Recursion Scheme* $2 \leftrightarrow 3 \leftrightarrow 5$. Using the same above scheme we again find a similar table for $2 \leftrightarrow 3 \leftrightarrow 5$

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** x, a, b	***Result***	***Finalized Pick From The Result***
$2 \leftrightarrow 3 \leftrightarrow 5$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(-1)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2+2}{2}\right\}$	$x=0, a=-1, b=3$	$4 \leftrightarrow 5 \leftrightarrow 7$	***7*** (Prime Number Nearest to 5)

$3 \leftrightarrow 5 \leftrightarrow 2$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-(-2)}{3}\right\} \leftrightarrow \left\{\frac{(3)^2-1}{3}\right\}$	$x=1, a=-2, b=-1$	$9 \leftrightarrow 11 \leftrightarrow 8$	***11*** (Prime Number greater than 7)
$5 \leftrightarrow 2 \leftrightarrow 3$	$\{5\} \leftrightarrow \left\{\frac{(5)^2-(3)}{5}\right\} \leftrightarrow \left\{\frac{(5)^2-2}{5}\right\}$	$x=2, a=3, b=-2$	$25 \leftrightarrow 22 \leftrightarrow 23$	***23*** (Prime Number greater than 7)
$3 \leftrightarrow 2 \leftrightarrow 5$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-(1)}{3}\right\} \leftrightarrow \left\{\frac{(3)^2+2}{3}\right\}$	$x=1, a=1, b=2$	$9 \leftrightarrow 8 \leftrightarrow 11$	***11*** (Prime Number greater than 7)
$2 \leftrightarrow 5 \leftrightarrow 3$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(-3)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2+1}{2}\right\}$	$x=0, a=-3, b=1$	$4 \leftrightarrow 7 \leftrightarrow 5$	***7*** (Prime Number Nearest to 5)
$5 \leftrightarrow 3 \leftrightarrow 2$	$\{5\} \leftrightarrow \left\{\frac{(5)^2-2}{5}\right\} \leftrightarrow \left\{\frac{(5)^2-3}{5}\right\}$	$x=2, a=2, b=-3$	$25 \leftrightarrow 23 \leftrightarrow 22$	***23*** (Prime Number greater than 7)

Now, noting that the next nearest Prime number found being 7, we now use the set {2, 3, 5} given in the beginning and use its two highest {***Prime***} numbers and couple the recently found 7 to form a new set {3, 5, 7} and consequently a *Asymmetric Universal Recursion Scheme* $3 \leftrightarrow 5 \leftrightarrow 7$. Using the same above scheme we again find a similar table for $3 \leftrightarrow 5 \leftrightarrow 7$ and can consequently find the next Prime Number to be 11.

We can keep repeating the aforementioned scheme many, many times so on, so forth and can generate the entire '*SequenceOfPrimeNumbers*' up to a desired limit.

the author replaces, the set $\{0,1,2\}$ by the *Given Sequence Of Triplet Not Containing Zero And Arranged In Ascending Order*, say $\{\alpha_1, \alpha_2, \alpha_3\}$ and considers the cases of

$\alpha_2 \leftrightarrow \alpha_1 \leftrightarrow \alpha_3$

and

$\alpha_2 \leftrightarrow \alpha_3 \leftrightarrow \alpha_1$

and use the above Scheme to find α_4.

which will be *Nearest* ***Common*** *Outcome* of the above considered cases when the author's above mentioned Scheme is implemented on each. In a similar fashion, we can keep generating α_5, α_6, ..., $\alpha_{(n-1)}$, α_n by considering $\{\alpha_{i-1}, \alpha_i, \alpha_{i+1}\}$ and considering the cases

$\alpha_i \leftrightarrow \alpha_{i-1} \leftrightarrow \alpha_{i+1}$

and

$\alpha_i \leftrightarrow \alpha_{i+1} \leftrightarrow \alpha_{i-1}$

and use the above Scheme to find α_{i+2}.

which will be *Nearest* ***Common*** *Outcome* of the above considered cases $\alpha_i \leftrightarrow \alpha_{i-1} \leftrightarrow \alpha_{i+1}$ and $\alpha_i \leftrightarrow \alpha_{i+1} \leftrightarrow \alpha_{i-1}$ when the author's above mentioned Scheme is implemented on each, for any $1 \le i \le n$ for the Elements on the Higher Side of α_1

Here the Limit, we have considered is $1 \le i \le n$

for the Elements on the Higher Side of α_1

The thusly found Elements, Conform to the Restriction of Belonging to a Complete Recursive Set, on the Higher Side with Limit $1 \le i \le n$ and Starting from α_1.

To compute the that conform to the Restriction of Belonging to a Complete Recursive Set, on the Lower Side (upto a certain Limit) and Starting from α_1, and going on the Lower Side, we use the following Scheme:

Firstly, we use the following Triplet of Numbers

$\{\alpha_0, \alpha_1, \alpha_2\}$

where, α_0 is a Variable and run our above Scheme in the Blue-Box and find α_0 for the Result of the Scheme being α_3 which is already known. In the same fashion, we keep finding the Complete Recursive Set Elements on the Lower Side of α_1 till a specified Limit, say α_{-m}. Note that the minus Sign is just an Indicator for numbering elements lower than α_0. Here, the Lower Limit, we have considered is α_{-m}, i.e., $-m$.

Also, α_{-m} is the Last Element on the Lower Side found to Exhaustion, i.e., $-m^{th}$ Element is the Last Element on the Lower Side found to Exhaustion.

Complete Recursive Subsets Of the thusly found Elements can also be found in the following fashion.

Firstly, we list all the thusly found Elements inclusive of the given three Elements $\{\alpha_1, \alpha_2, \alpha_3\}$ and form a Set, say ${}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}$. Here, in the notation, ${}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}$ indicates the Set of Elements that form a Complete Recursive Sub-Set formed for the Set $\{\alpha_1, \alpha_2, \alpha_3\}$ with Lower Limit Term α_{-m} and Higher Limit Term α_n. We now find all the Subsets, say $S_j \subset {}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}$ of this Set ${}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}$. Now for every Sub-Set of ${}^{Cardinality(\geq 3)}S_j \subset {}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}$ with at least three Elements or more, we use the aforementioned Scheme and find the Elements that Conform to Complete Recursive Sub-Set.

Now, the Union of all these Sets, namely $\left\{{}_{\alpha_{-m}}^{\alpha_n}CRS_{\{\alpha_1,\alpha_2,\alpha_3\}}\right\} \bigcup_j \left\{{}^{Cardinality(\geq 3)}S_j\right\}$

can be considered as a Universal Beauty Primality Set and/ or Universal Optimal Life Primality Set.

The Three Critical Elements Of Any Sequence That Can Generate All The Elements Of The Sequence And Also Some Additional Elements That Conform To The Complete Recursive Set Ordered By All The Elements Of The Given Sequence Of Concern

Considering and given Sequence as a Set say, $B = \{\beta_1, \beta_2, \beta_3, \ldots\ldots\ldots .\beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}$ we, then holistically form all three Distinct Element Sets $B_{Cardinality(3)\subset}$ using B. These will be $p(p-1)(p-2) = (p^3 - 3p^2 + 2p)$ in number. Now, using the above detailed Scheme we find all the Elements forming a Complete Recursive Set for each of the Three Element Subsets of $B = \{\beta_1, \beta_2, \beta_3, \ldots\ldots\ldots .\beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}$, on the Higher and Lower Side and upto a Certain (different, may be same in some instances) Least Counts on the Higher & Lower Sides such that for one of this thusly found Set, we find all the Elements of the Given Sequence, in the least. The Three Element Subset of the given Sequence can be considered *as The Critical Three ElementsOf Any Sequence That Can Generate All The Elements Of The Sequence And Also Some Additional Elements That Conform To The*

Complete Recursive Set Ordered {on the Higher and Lower Side and upto a Certain (different, may be same in some instances) Least Counts on the Higher & Lower Sides} By All The Elements Of The Given Sequence Of Concern.

Note Of Caution {Speculation}

One should note that the above detailed Scheme in the *Blue-Box* may only work well when the three Elements used for such generation all belong to the same Sequence Of Primes of Certain Order Space. When the three elements each belong to different Sequences of Primes each of different Order Space, the process in the Blue Box needs to be modified in the following fashion.

Firstly, we consider the *Corresponding Prime Metric Position Elements* of three Consecutive Order Space(s) Sequences of Primes and use the Scheme in the Blue-Box modified in the following fashion

Case 1:

$$\left\{{}^{D}x\right\} \leftrightarrow \left\{{}^{D}x - \frac{{}^{E}a^{(R_1-1)}}{{}^{D}x}\right\} \leftrightarrow \left\{{}^{D}x + \frac{{}^{F}b^{(R_2-1)}}{{}^{D}x}\right\} \qquad D > E, F$$

${}^{D}x$ *belongs to the Sequence Of Primes Of* D^{th} *Order Space*

${}^{E}a$ *belongs to the Sequence Of Primes Of* E^{th} *Order Space*

${}^{F}b$ *belongs to the Sequence Of Primes Of* F^{th} *Order Space*

And since, we know the Next Element generated which will be the Corresponding Prime Metric Element of the Order Space Sequence Of Primes Next to the (Corresponding Prime Metric Position Elements of the) above considered three Consecutive Order Space(s) Sequences of Primes, using the answers, and using a Similar Procedure of using the Known elements on the Lower and Higher Side we evaluate the Exponents

R_1 and R_2.

We similarly, conduct the same procedure for the other possible cases listed below.

Case 2:

$$\left\{{}^{D}x\right\} \leftrightarrow \left\{{}^{D}x - \frac{{}^{E}a}{\left({}^{D}x\right)^{(S_1-1)}}\right\} \leftrightarrow \left\{{}^{D}x + \frac{{}^{F}b^{(R_2-1)}}{{}^{D}x}\right\} \qquad (D < E),(D > F)$$

${}^{D}x$ *belongs to the Sequence Of Primes Of* D^{th} *Order Space*

${}^{E}a$ *belongs to the Sequence Of Primes Of* E^{th} *Order Space*

${}^{F}b$ *belongs to the Sequence Of Primes Of* F^{th} *Order Space*

Case 3:

$$\left\{{}^{D}x\right\} \leftrightarrow \left\{{}^{D}x - \frac{{}^{E}a}{\left({}^{D}x\right)^{(S_1-1)}}\right\} \leftrightarrow \left\{{}^{D}x + \frac{{}^{F}b}{\left({}^{D}x\right)^{(S_2-1)}}\right\} \qquad D < E, F$$

${}^{D}x$ *belongs to the Sequence Of Primes Of* D^{th} *Order Space*

${}^{E}a$ *belongs to the Sequence Of Primes Of* E^{th} *Order Space*

${}^{F}b$ *belongs to the Sequence Of Primes Of* F^{th} *Order Space*

Case 4:

$$\left\{{}^{D}x\right\} \leftrightarrow \left\{{}^{D}x - \frac{{}^{E}a^{(R_1-1)}}{{}^{D}x}\right\} \leftrightarrow \left\{{}^{D}x + \frac{{}^{F}b}{\left({}^{D}x\right)^{(S_2-1)}}\right\} \qquad (D > E),(D < F)$$

${}^{D}x$ *belongs to the Sequence Of Primes Of* D^{th} *Order Space*

${}^{E}a$ *belongs to the Sequence Of Primes Of* E^{th} *Order Space*

${}^{F}b$ *belongs to the Sequence Of Primes Of* F^{th} *Order Space*

And similarly, we find S_1 and S_2.

We also conduct the same procedure using *Corresponding Prime Metric Position Elements* of three Non-Consecutive Order Space(s) Sequences of Primes and can create a *Universal Normalization Formula* that validates the Modified *Blue-Box* Scheme when we are working with Elements that belong to Any Order Space Sequence Of Primes for our aforementioned type Analysis.

Conclusion

One can note that using the above Scheme one can create a *Universal Normalization Formula* that validates the Modified Blue-Box Scheme when we are working with Elements that belong to Any Order Space Sequence Of Primes for our aforementioned type Analysis.

Moral

Fulfillment Of Good Promise Is A Good Virtue.

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1. **One, Two, Three and N Dimensional String Search Algorithms**

Ramesh C. Bagadi
(Submitted on 20 Sep 2010 (this version))

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.*

Dedication

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