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TRL Positive Real Order Sequence Of Primes Finding Algorithm. {Rendition To Completion} (Universal Engineering Series).

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Positive Real Order Universal Sequence of Primes Finding Algorithm

One can note from author's [1] that Universal Sequences of Primes can belong to any Positive Integer Order and a method of finding the same for the case of Order > 2 has been detailed in [1]. Also, for the case of Order = 2, the literature has been detailed in author's [2]. Now, in this Research Manuscript, the author details the analysis of case of order > 2 wherein an Alternative Method other than detailed in [1] and the same Schema has been extended to analyze the case of Positive Real Order case, i.e., Fractional Order case.

From [2] of the author, we can note that, considering the first three Primes (Standard) of 2nd order, we can arrange them as follows:

$$\begin{matrix} (3-2)=1 & (5-2)=3 \\ 3 \leftrightarrow 2 \leftrightarrow 5 \end{matrix} \Rightarrow (1) + (3) + (3 \text{ or } 2 \text{ or } 5)$$

wherein the differences between (3 & 2) and (5 & 2) are also detailed therein. Now to get the next element of this Sequence of 2, 3, 5 which has been arranged as 3 ↔ 2 ↔ 5, we need to add those afore-found differences (1+3=4) to either of the three numbers 3 or 2 or 5 which gives a Prime Nearest to 5. In this case 4+3=7 gives as a Prime nearest to 5.

The same above Scheme can also be extended to be applicable to Positive Integer Order Universal Sequence of Primes case. Now, we simply consider 6, 10, 14 and 15 which are the first 4 Primes of 3rd order (i.e., 6=3x2, 10=2x5, 14=2x7, 15=3x5) and arrange them in a similar Order as before, i.e., as follows:

$$10 \leftrightarrow 6 \leftrightarrow 14 \Rightarrow (4+8) + \left(\frac{10}{2} \text{ or } \frac{6}{2} \text{ or } \frac{14}{2} \right)$$

where the respect 2 using which we divide 10, 6, 14 can be considered as (Order-1) or the Number of 2nd Order Prime Factors 10, 6, 14 can be expressed as. Now to converge onto the Real Correct Choice - RJ

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Positive Real Order Universal Sequence of Primes Finding Algorithm (Continued)

we perform a test wherein when the aforementioned differences when added up and added to the correct choice makes this number factorizable as (Order-1) Number of Factors (2nd Order Prime) when considered as a Product. Also, we can pick the final value gotten by going through each choice and can use the first (Order-2) Number of Prime Factors (of 2nd Order) and can note which choice factors well as the one having appropriate number of Prime Factors, and also is nearest to the appropriate Order of Prime whose next term we are finding. Also, if the choice (after appropriate summing up here, in this context) does not factorize at all, the choice must be left out.

In a Similar Fashion, we can Generalize the Scheme as Follows:

$$N_{x_i} \leftrightarrow N_{x_{i-1}} \leftrightarrow N_{x_{i+1}} \Rightarrow N_{x_{i+2}} \text{ such that}$$

$$N_{x_{i+2}} = \left(N_{x_i} - N_{x_{i-1}} \right) + \left(N_{x_{i+1}} - N_{x_{i-1}} \right) + \left\{ \left(\frac{N_{x_i}}{(N-1)} \right) \text{ or } \left(\frac{N_{x_{i-1}}}{(N-1)} \right) \text{ or } \left(\frac{N_{x_{i+1}}}{(N-1)} \right) \right\}$$

such that $N_{x_{i+2}}$ is nearest to $N_{x_{i+1}}$ and also is a Prime of N^{th} Order Sequence of Primes. Also, the above Formula is valid when the Second Order Sequence of Primes are considered to the Standard Primes (2, 3, 5, 7, 11, 13, 17, 19, - - - - -) we know of.

Again in a Similar Fashion, we can Generalize the Scheme for the case of Analysis of Positive Real Order Sequence of Primes as follows:

$$(N+\alpha)_{x_i} \leftrightarrow (N+\alpha)_{x_{i-1}} \leftrightarrow (N+\alpha)_{x_{i+1}} \Rightarrow (N+\alpha)_{x_{i+2}} \text{ such that}$$

$$(N+\alpha)_{x_{i+2}} = \left((N+\alpha)_{x_i} - (N+\alpha)_{x_{i-1}} \right) + \left((N+\alpha)_{x_{i+1}} - (N+\alpha)_{x_{i-1}} \right) + \left\{ \left(\frac{(N+\alpha)_{x_i}}{(N+\alpha)} \right) \text{ or } \left(\frac{(N+\alpha)_{x_{i-1}}}{(N+\alpha)} \right) \text{ or } \left(\frac{(N+\alpha)_{x_{i+1}}}{(N+\alpha)} \right) \right\}$$

such that $(N+\alpha)_{x_{i+2}}$ is nearest to $(N+\alpha)_{x_{i+1}}$ and also is a Prime RL

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of $(N+d)$ th Order Sequence of Primes. Here N is a Positive Integer
and $(0 < d < 1)$. Furthermore, $(N+d)x_i$, $(N+d)x_{i+1}$, $(N+d)x_{i+1}$ can be
found approximately using Interpolation in the following fashion:

$$(N+d)x_i = \alpha \left((N+1)x_i - N x_i \right) + N x_i$$

[Now, Regarding choosing the correct factor, we can choose the
same choice ^(equivalent to) as the one nearest to the Integer Order choice
nearest to the the Fractional order. (Not a Strict Rule).]

Alternately, since we can find $N x_{i+2}$ and $(N+1)x_{i+2}$ we can
find $(N+d)x_{i+2}$ using the above Interpolation Formula and
using this value, we can orient ourselves in picking the correct
choice.

-RL

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R.C. *4*

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Positive Real order Universal Sequence of Primes Finding Algorithm (Continued)

Hyper-Refinement of the Fractional Order Analysis

From author's [3] we can note that $(N+k)_p$ can also be interpreted as N_{p_j} where j, N are positive Integers and $(0 < \delta < 1)$. We now divide the distance $(N_{p_{j+1}} - N_{p_j})$ into $N_{p_{j+1}}$ number of parts along the appropriate Prime Metric Basis therein. Now, if $N_{p_{j+1}}$ each part is of value $\left(\frac{N_{p_{j+1}} - N_{p_j}}{N_{p_{j+1}}} \right)$ and if δ is 0 to some N_{p_k} wherein $(0$ is N_{p_j}) parts and $(0$ to $N_{p_{j+1}})$ parts here is $(N_{p_{j+1}} - N_{p_j})$ hence, we can say

$$\text{Norm} \left(\bar{N}_{p_k} \right) = \text{Norm} \left(\delta \left(\frac{N_{p_{j+1}} - N_{p_j}}{N_{p_{j+1}}} \right) \right)$$

The k we get will be a small value. We need to add it to the N_{p_j} to get what we can equivalently call as $N_{p_j+(k)}$. However, this \bar{N}_{p_k} component, we compute separately and add to N_{p_j} . We can again invoke the same procedure within or at $(N_{p_j} + \bar{N}_{p_k})$ again and hyper-refine this value as similarly to a convergence. Well this convergence limit depends on the precision of δ value we started with.

-R.C.

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Tribute

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