TRL Positive Real Order Universal Sequence Of Primes Finding Algorithm.
(Universal Engineering Series).

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EkoVaasiSarvaBhuootaanAntaratmaah
(Its Is The One That Pervades All)

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Positive Real Order Universal Sequence of Primes Finding Algorithm

One can note from authors [1] that Universal Sequences of Prime can belong to any Positive Integer Order and a method of finding the same for the case of Order > 2 has been exhibited in [1]. Also, for the case of Order = 2, the literature has been detailed in authors [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:

\[
\begin{align*}
1 & \rightarrow 3 \\
3 & \rightarrow 5 \\
5 & \rightarrow 7 \\
7 & \rightarrow 11
\end{align*}
\]

wherein the differences between (2,2) and (5,4) are also noted detailed therein. Now to get the next element of this sequence of 2,3,5 which has been arranged as 3 \rightarrow 7 \rightarrow 11, we need to add these afore-mentioned differences (1,3,4) to either side of the three numbers 3, 2, 5 which gives a Prime Nearest to 5.

In this case, 4+3+7 gives 14 a Prime nearest to 5.

The same above scheme can also be extended to the applicable to Positive Integer Order Universal Sequence of Primes, and so forth. Now, we simply consider 6, 10, 14 and 15 which are the first 4 Primes of 3rd order (i.e., 3x2, 2x5, 2x7 and 3x5) which have been arranged in a Similar Order as before, i.e., ascending order of (6, 10, 14) where the

\[
\begin{align*}
10 & \rightarrow 14 \\
14 & \rightarrow 18 (1 + 2) \\
\end{align*}
\]

Now we choose the Real Correct Choice of 14.
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Positive Real Order Universal Sequence of Primes Finding Algorithm

\[ (N+1) \] th Order Sequence of Primes, Here \( N \) is a Positive Integer and \( 0 < x_i < 1 \), Furthermore, \( x_i+1 \) can be found approximately using Interpolation in the following fashion:

\[ x_i = \left( x_{i-1} - x \right) + N x_i \]

Now, Regarding choosing the correct factor, we can choose the same choice of the Integer Order Choice nearest to the the Fractional Order. (Note strict rule).

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

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Ekovaasi Sarva Bhootaan Antaraatmah (It is the One That Pervades All)

— Ramesh Chandra Bagadi

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