

*A Locally Parameter Element-Wise Linear Transformations Based Forecasting Model For Dynamic State Systems With Large Number Of Parameters*

*January 2001 through December 2004. Rewritten February 15<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup> 2016 Anno Domini*

**Author: Ramesh Chandra Bagadi**

*Founder, Owner, Co-Director And Advising Scientist In Principal*

*Ramesh Bagadi Consulting LLC, Madison, Wisconsin-53715, United States Of America.*

*Email: [rameshcbagadi@uwalumni.com](mailto:rameshcbagadi@uwalumni.com)*

*White Paper One {TRL117}*

*of*

*Ramesh Bagadi Consulting LLC, Advanced Concepts & Think-Tank,  
Technology Assistance & Innovation Center, Madison, Wisconsin-53715,  
United States Of America*

## Abstract

In this research investigation, the author has presented ‘*A Locally Parameter Element Wise Linear Transformations Based Forecasting Model For Dynamic State Systems With Large Number Of Parameters*’.

## Theory

With reference to the author’s ‘*A Locally Linear Transformations Based Forecasting Model For Dynamic State Systems*’ shown in the Blue-Box below,

### *A Locally Linear Transformations Based Forecasting Model For Dynamic State Systems*

Firstly, we represent any *Dynamic State System* using a *State Vector (Row Vector)* of a specified size, say

$$V_i = [V_i(1) \ V_i(2) \ V_i(3) \ \dots \ V_i(n-2) \ V_i(n-1) \ V_i(n)]$$

That is,

$$\bar{V}_i = [V_i(1) \ V_i(2) \ V_i(3) \ \dots \ V_i(n-2) \ V_i(n-1) \ V_i(n)]$$

$$\bar{V}_i = \sum_{j=1}^n \{[V_i(j)]\hat{e}_j\}$$

Here, the *State Vector* has  $n$  parameters that are Evolving with time.

For the time instant  $i = k$ , we have the *State Vector* given by

$$\bar{V}_k = [V_k(1) \ V_k(2) \ V_k(3) \ \dots \ V_k(n-2) \ V_k(n-1) \ V_k(n)]$$

Let the *State Vector* be defined for  $i = 1$  to  $i = m$  instants.

We now *Normalize* all  $\bar{V}_i$  for  $i = 1$  to  $i = m$ .

The *Normalization* is given by

$$\hat{V}_i = \frac{\bar{V}_i}{\left\{ \sum_{j=1}^n [V_i(j)]^2 \right\}^{1/2}}$$

That is,

$$\hat{V}_i = \frac{\sum_{j=1}^n \{[V_i(j)]\hat{e}_j\}}{\left\{ \sum_{j=1}^n [V_i(j)]^2 \right\}^{1/2}}$$

We now calculate the *Diagonal Transformation Matrices* connecting each  $\hat{V}_i$  to  $\hat{V}_{i+1}$ , for  $i = 1$  to  $i = m$ .

We label these as  $T_{i \rightarrow (i+1)}$ .

That is  $\hat{V}_{i+1} = \hat{V}_i T_{i \rightarrow (i+1)}$

where the elements of  $T_{i \rightarrow (i+1)}$  are given by

$$T_{i \rightarrow (i+1)}(j, j) = \frac{V_{i+1}(j)}{V_i(j)} \text{ for } j = 1 \text{ to } j = n$$

In order to Forecast  $\hat{V}_{m+1}$  we use

$$\hat{V}_{m+1} = \hat{V}_m T_{r \rightarrow (r+1)} \text{ where } 1 \leq r \leq (m-1)$$

where  $T_{r \rightarrow (r+1)}$  satisfies  $\hat{V}_{r+1} = \hat{V}_r T_{r \rightarrow (r+1)}$  where  $r$  is that particular  $r$  for which  $(\hat{V}_m \cdot \hat{V}_i)$  is Maximum for  $i = 1$  to  $i = (m-1)$ , where  $(\hat{V}_m \cdot \hat{V}_i)$  indicates Euclidean Inner Product.

Finally, we arrive at the Magnitude of  $\hat{V}_{m+1}$  in the following fashion:

**Case 1:**

$$\bar{V}_{m+1}(j) = \{\hat{V}_{m+1}(j)\} \{\bar{V}_m\}$$

**Case 2:**

$$\bar{V}_{m+1}(j) = \{\hat{V}_{m+1}(j)\} \{\bar{V}_r\}$$

**Case 3:**

$$\bar{V}_{m+1}(j) = \{\hat{V}_{m+1}(j)\} \{\bar{V}_m(j)\} \left\{ \begin{array}{l} \hat{V}_{m+1}(j) \\ \hat{V}_{r+1}(j) \end{array} \right\}$$

That is,

$$\bar{V}_{m+1}(j) = \frac{\{\hat{V}_{m+1}(j)\}^2 \{\bar{V}_m(j)\}}{\{\hat{V}_{r+1}(j)\}}$$

**Case 4:**

$$\bar{V}_{m+1}(j) = \frac{\{\hat{V}_{m+1}(j)\}^2 \{\bar{V}_m(j)\}}{\{\hat{V}_m(j)\}}$$

we present 'A Locally Parameter Element Wise Linear Transformations Based Forecasting Model For Dynamic State Systems With Large Number Of Parameters' in the following fashion:

Firstly, we represent any Dynamic State System using a State Vector (Row Vector) of a specified size, say

$$V_i = [V_i(1) \ V_i(2) \ V_i(3) \ \dots \ V_i(n-2) \ V_i(n-1) \ V_i(n)]$$

**That is,**

$$\bar{V}_i = [V_i(1) \ V_i(2) \ V_i(3) \ \dots \ V_i(n-2) \ V_i(n-1) \ V_i(n)]$$

$$\bar{V}_i = \sum_{j=1}^n \{V_i(j)\hat{e}_j\}$$

**Here, the *State Vector* has  $n$  parameters that are Evolving with time.**

**For the time instant  $i = k$ , we have the *State Vector* given by**

$$\bar{V}_k = [V_k(1) \ V_k(2) \ V_k(3) \ \dots \ V_k(n-2) \ V_k(n-1) \ V_k(n)]$$

**Let the *State Vector* be defined for  $i = 1$  to  $i = m$  instants.**

**We now define**  $T_{s_j \rightarrow (s+1)_j}(j) = \frac{\bar{V}_{(s+1)_j}(j)}{\bar{V}_{s_j}(j)}$

**We define**

$$\bar{V}_{m+1}(j) = \{\bar{V}_m(j)\} \left[ \left( T_{u_j \rightarrow (u+1)_j}(j) \right) + \left\{ \bar{V}_{m_j}(j) - \bar{V}_{u_j}(j) \right\} \left\{ \frac{\left( T_{(u+1)_j \rightarrow (u+2)_j}(j) \right) - \left( T_{u_j \rightarrow (u+1)_j}(j) \right)}{\bar{V}_{(u+1)_j}(j) - \bar{V}_{u_j}(j)} \right\} \right]$$

**where**  $\bar{V}_{u_j}(j) < \bar{V}_{m_j}(j) < \bar{V}_{(u+1)_j}(j)$  **for**  $1 \leq u_j < m$ .

## **Conclusion**

**This Scheme can be used to predict the *One Step Evolution* of any *Dynamic State System* with Large Number of Parameters.**

## **Moral**

***Clear Waters Run Deep.***

## **References**

**Ramesh Chandra Bagadi**

**Vixra Publications**

as on February 17<sup>th</sup>, 2016 Anno Domini {Indian Standard Time}

[www.vixra.org/author/ramesh\\_chandra\\_bagadi](http://www.vixra.org/author/ramesh_chandra_bagadi)

[104] [viXra:1602.0175](#) submitted on 2016-02-15 05:07:50, (0 unique-IP downloads)

**A Locally Linear Transformations Based Forecasting Model For Dynamic State Systems**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[103] [viXra:1602.0161](#) submitted on 2016-02-13 23:50:58, (5 unique-IP downloads)

**Constructing The Primality Tree Of Any Set**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[102] [viXra:1601.0366](#) submitted on 2016-01-31 22:34:01, (8 unique-IP downloads)

**Green Engineering**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[101] [viXra:1601.0316](#) submitted on 2016-01-29 23:41:11, (6 unique-IP downloads)

**Insights On Universal Normalization Formula**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[100] [viXra:1601.0306](#) submitted on 2016-01-28 05:56:59, (12 unique-IP downloads)

**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**

**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[99] **viXra:1601.0268** submitted on 2016-01-24 22:03:40, (9 unique-IP downloads)

**Holistic Complete Determinants {Version II}**  
**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[98] **viXra:1601.0259** submitted on 2016-01-24 05:51:07, (8 unique-IP downloads)

**Holistic Complete Determinants**  
**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[97] **viXra:1601.0258** submitted on 2016-01-23 22:06:29, (5 unique-IP downloads)

**Universal Cross Product {Version II}**  
**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[96] **viXra:1601.0246** submitted on 2016-01-22 22:18:38, (12 unique-IP downloads)

**Large Sized Determinants Computing Algorithm**  
**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[95] **viXra:1601.0213** submitted on 2016-01-19 22:41:32, (22 unique-IP downloads)

**Classification Of Prime Numbers**  
**Authors:** Ramesh Chandra Bagadi  
**Category:** General Mathematics

[94] **viXra:1601.0212** submitted on 2016-01-19 22:50:40, (6 unique-IP downloads)

**Generation Of Elements Forming A Complete Recursive Set On The Higher And Lower Side {From And Up To Specified Limits} Of A Three Distinct Element Set {Version II}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[93] [viXra:1601.0191](#) submitted on 2016-01-17 21:59:29, (4 unique-IP downloads)

**Generation Of Elements Forming A Complete Recursive Set On The Higher Side {Up To A Specified Limit} Of A Three Distinct Element Set {Not Containing Zero} Arranged In Ascending Order**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[92] [viXra:1601.0190](#) submitted on 2016-01-17 22:07:29, (4 unique-IP downloads)

**Natural Memory Embedding**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[91] [viXra:1601.0188](#) submitted on 2016-01-18 03:36:03, (7 unique-IP downloads)

**Generation Of Elements Forming A Complete Recursive Set On The Higher And Lower Side {From And Up To Specified Limits} Of A Three Distinct Element Set**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[90] [viXra:1601.0170](#) submitted on 2016-01-15 23:30:40, (7 unique-IP downloads)

**Universal Scheme To Find The Recursion Scheme Of Any Set Of Concern**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[89] [viXra:1601.0164](#) submitted on 2016-01-15 05:32:01, (9 unique-IP downloads)

**Primality Tree Analysis**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[88] [viXra:1601.0151](#) submitted on 2016-01-13 23:33:32, (5 unique-IP downloads)

**Any Sequence Of Concern's Evolution Function With Respect To The Evolution Function Of Sequence Of Primes**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[87] [viXra:1601.0150](#) submitted on 2016-01-14 03:12:16, (12 unique-IP downloads)

**Universal Cross Product**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[86] [viXra:1601.0140](#) submitted on 2016-01-13 06:33:34, (10 unique-IP downloads)

**Universal Scheme To Find The Next Term Of A Triplet Sequence Not Containing Zero And Arranged In Ascending Order**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[85] [viXra:1601.0128](#) submitted on 2016-01-12 07:38:39, (14 unique-IP downloads)

**Hyper-Causality Invokement Of Verbose Sounds Through Electromagnetic Wave-Guide Effect**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[84] [viXra:1601.0121](#) submitted on 2016-01-11 22:59:26, (12 unique-IP downloads)

**Fulfill Your Life {Version 5}**



**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[83] [viXra:1601.0107](#) submitted on 2016-01-11 03:51:38, (5 unique-IP downloads)

**Quantizing Ability And/ Or Hyper-Causality Invoking Ability Of Truth Statements In Samskrutam Language**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[82] [viXra:1601.0088](#) submitted on 2016-01-09 23:39:50, (11 unique-IP downloads)

**Preventing Cancerous Growth**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[81] [viXra:1601.0087](#) submitted on 2016-01-10 06:05:04, (6 unique-IP downloads)

**One Step Evolutionary Growth Of Any Primality Set Of Concern {Evolution - Version 5}**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[80] [viXra:1601.0084](#) submitted on 2016-01-09 08:41:16, (6 unique-IP downloads)

**Primality Engineering II**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[79] [viXra:1601.0083](#) submitted on 2016-01-08 22:13:29, (18 unique-IP downloads)

**Solving Any Puzzle**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[78] [viXra:1601.0071](#) submitted on 2016-01-08 05:19:14, (10 unique-IP downloads)

**Street Vendor Business(es) Quantification And Optimization**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[77] [viXra:1601.0049](#) submitted on 2016-01-06 05:19:42, (8 unique-IP downloads)

**Universal Recursion Scheme That Is Vertically {Maximally} Evolving**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[76] [viXra:1601.0040](#) submitted on 2016-01-05 22:37:06, (11 unique-IP downloads)

**Universal Vision Tunneler. Universal Infinite Frequency Tunneler**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[75] [viXra:1601.0035](#) submitted on 2016-01-05 06:13:47, (12 unique-IP downloads)

**Universal Space Folding Recursion Scheme**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[74] [viXra:1601.0019](#) submitted on 2016-01-03 21:40:40, (6 unique-IP downloads)

**Universal Recursive Comparator**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[73] [viXra:1601.0018](#) submitted on 2016-01-03 21:55:45, (9 unique-IP downloads)

**Generation Of The Recursion Scheme Of Any Complete Primality Tree Of Concern {Version III}**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[72] [viXra:1601.0016](#) submitted on 2016-01-03 23:15:18, (6 unique-IP downloads)

**Optimal Business Varietization**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[71] [viXra:1601.0013](#) submitted on 2016-01-02 23:18:29, (10 unique-IP downloads)

**Generation Of The Recursion Scheme Of Any Complete Primality Tree Of Concern**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[70] [viXra:1601.0003](#) submitted on 2016-01-01 04:59:36, (12 unique-IP downloads)

**Lateral Load Increment Scheme Quantization For Use In Push Over Analysis Scheme Generally Used In Multi-StoreyedStructural Analysis**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[69] [viXra:1512.0493](#) submitted on 2015-12-31 22:31:59, (10 unique-IP downloads)

**Recursion Scheme Of Any Complete Primality Tree Of Concern**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[68] [viXra:1512.0480](#) submitted on 2015-12-30 06:24:39, (10 unique-IP downloads)

**On the Theory Of Complete Recursive Sub-Sets Of A Given Set Of Concern. Definition Of A Galaxy**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[67] [viXra:1512.0466](#) submitted on 2015-12-29 04:58:39, (15 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version IV}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[66] [viXra:1512.0464](#) submitted on 2015-12-28 23:48:57, (13 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version III}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[65] [viXra:1512.0463](#) submitted on 2015-12-28 23:56:30, (12 unique-IP downloads)

**Universal Complementary Lower End Prime Pair And Complementary Higher End Prime Pair**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[64] [viXra:1512.0453](#) submitted on 2015-12-27 22:31:48, (10 unique-IP downloads)

**THEory Of Evolution {Version Iv OR 4}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[63] [viXra:1512.0427](#) submitted on 2015-12-25 23:02:27, (13 unique-IP downloads)

**Schema Of Construction Of Infinity Geodesic Of Any Aspect Of Concern**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[62] [viXra:1512.0426](#) submitted on 2015-12-26 01:50:19, (9 unique-IP downloads)

**Universal Un-Biased Complete Evolution**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[61] **viXra:1512.0419** submitted on 2015-12-25 05:54:12, (24 unique-IP downloads)

**NP Versus P Problem. Schroedinger's Cat In A Box Problem**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[60] **viXra:1512.0417** submitted on 2015-12-24 22:38:29, (15 unique-IP downloads)

**Universal Objective Of The Universe. Universal Beauty Primality. Universal Optimal Life Primality. The Aforementioned Three Aspects As Restrictions For Evolution {Version II of All The Aforementioned}**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[59] **viXra:1512.0410** submitted on 2015-12-24 05:48:20, (11 unique-IP downloads)

**Universal Objective Of The Universe. Universal Beauty Primality. Universal Optimal Life Primality. The Aforementioned Three Aspects As Restrictions For Evolution**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[58] **viXra:1512.0407** submitted on 2015-12-23 09:21:29, (13 unique-IP downloads)

**Representation Of Alphabets By Set Of Prime Numbers – Primality Engineering I {Version II}**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[57] **viXra:1512.0404** submitted on 2015-12-22 23:48:48, (10 unique-IP downloads)

**Theory Of Quantum Coupling. Theory Of Quantum Lensing. Theory Of Quantum Lens Invasion.**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[56] [viXra:1512.0396](#) submitted on 2015-12-22 01:04:57, (15 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version II}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[55] [viXra:1512.0389](#) submitted on 2015-12-21 05:26:05, (7 unique-IP downloads)

**Universal Recursive Scheme To Generate The Sequence Of Primes Of Any Order {Say, Rth} Space**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[54] [viXra:1512.0387](#) submitted on 2015-12-21 05:35:54, (8 unique-IP downloads)

**Universal Truth Of Recursive Kind**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[53] [viXra:1512.0377](#) submitted on 2015-12-20 05:30:29, (12 unique-IP downloads)

**Karma-Falam. Why-To.**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[52] [viXra:1512.0359](#) submitted on 2015-12-18 07:14:32, (9 unique-IP downloads)

**{1} Universal Recursive Scale Shifting Technique {2} Universal Recursion Scheme That Is Vertically {Maximally} Evolving {10-3-105}-{6-2-15}-{14-5-385}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[51] [viXra:1512.0358](#) submitted on 2015-12-18 07:17:57, (6 unique-IP downloads)

**Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern {Version II}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[50] [viXra:1512.0350](#) submitted on 2015-12-17 04:45:31, (6 unique-IP downloads)

**Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[49] [viXra:1512.0345](#) submitted on 2015-12-17 00:49:27, (8 unique-IP downloads)

**Universal Daily Wage Labour Work Order(s) Placed Instantaneous Quantification And Exigent Work Order(s) Realization Facilitation System**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[48] [viXra:1512.0336](#) submitted on 2015-12-16 06:07:38, (24 unique-IP downloads)

**First Meaning(s) Of All The English Alphabet(s)**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[47] [viXra:1512.0323](#) submitted on 2015-12-15 00:08:54, (10 unique-IP downloads)

**Recommended Human Conduct**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[46] [viXra:1512.0318](#) submitted on 2015-12-14 04:14:04, (11 unique-IP downloads)

**Knowing The Infinitely Deeper Meaning - An Example Of Natural Memory Embedding**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[45] [viXra:1512.0313](#) submitted on 2015-12-13 23:48:21, (10 unique-IP downloads)

**Knowing The Infinitely Deeper Meaning. The Universal Infinite Logic Distiller**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[44] [viXra:1512.0312](#) submitted on 2015-12-14 00:00:25, (6 unique-IP downloads)

**On The Governmental Policy Of Acquiring And/ Or Purchase Of Individual Citizen Property For Governmental Reforms {Version I}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[43] [viXra:1512.0305](#) submitted on 2015-12-13 00:19:58, (11 unique-IP downloads)

**Universal Light Type Holistic Reference Frames For Characterizing Universal Electro-Magnetic Phenomena**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[42] [viXra:1512.0299](#) submitted on 2015-12-12 09:01:29, (11 unique-IP downloads)

**Maximizing Relativistic Electro-Magnetic Fringe Displacement Effect Width**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[41] [viXra:1512.0288](#) submitted on 2015-12-11 07:22:21, (10 unique-IP downloads)



**REpresentation Of Alphabets By Prime Numbers - Primality Engineering - I**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[40] viXra:1512.0268 submitted on 2015-12-09 03:30:14, (12 unique-IP downloads)

**Theory Of Evolution Through Consecutive Asymmetric Imaging Technique**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[39] viXra:1512.0235 submitted on 2015-12-06 02:38:01, (11 unique-IP downloads)

**Truth Assessment Of Any Consciousness Information**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[38] viXra:1512.0218 submitted on 2015-12-05 00:41:24, (16 unique-IP downloads)

**‘Pi’ Value And/ Or Its Higher Order Equivalent's Value Precision Quantized Increase Based Refinement Of Any Primality And/ Or Any Recursion Scheme Of Any Aspect Of Concern**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[37] viXra:1512.0117 submitted on 2015-12-04 02:24:10, (12 unique-IP downloads)

**Holistic Flood Proof City Design. Instantaneous Flood Water Draining System Theory**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[36] viXra:1512.0021 submitted on 2015-12-03 00:53:45, (9 unique-IP downloads)

**Universal Aspect Recursion Scheme {Version 2}**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[35] [viXra:1512.0008](#) submitted on 2015-12-02 00:45:31, (9 unique-IP downloads)

**Universal Aspect Recursion Scheme {Version 1 }**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[34] [viXra:1511.0238](#) submitted on 2015-11-25 02:01:26, (29 unique-IP downloads)

**Your Good Nature Is Your Real Wealth**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[33] [viXra:1511.0228](#) submitted on 2015-11-24 03:22:04, (15 unique-IP downloads)

**Relativistic Transformations In Standard Prime Metric And/ Or Corresponding Reverse Direction Prime Metric Within Some Selected Domains Of Complementable Bounds**  
**Authors:** [Ramesh Chandra bagadi](#)  
**Category:** [General Mathematics](#)

[32] [viXra:1511.0213](#) submitted on 2015-11-22 02:25:25, (19 unique-IP downloads)

**Fulfill Your Life (Version 4)**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[31] [viXra:1511.0203](#) submitted on 2015-11-21 08:34:25, (16 unique-IP downloads)

**Evolution Through Quantization (Version III)**  
**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[30] [viXra:1511.0190](#) submitted on 2015-11-20 09:00:08, (14 unique-IP downloads)

**Rth Order Space Sequence Of Primes Based Prime Metric Algebra**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[29] [viXra:1511.0133](#) submitted on 2015-11-16 09:18:35, (32 unique-IP downloads)

**Universal Recursive Tessellation Based Scheme To Derive The Evolution Scheme Of Any Aspect Set Of Concern {Evolution Through Quantization (Version Two)}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[28] [viXra:1511.0120](#) submitted on 2015-11-15 00:38:50, (30 unique-IP downloads)

**Living A Happy Life (Version II)**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[27] [viXra:1511.0119](#) submitted on 2015-11-15 00:50:41, (31 unique-IP downloads)

**Living A Happy Life (Version III)**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[26] [viXra:1511.0109](#) submitted on 2015-11-13 01:56:51, (39 unique-IP downloads)

**Living A Happy Life**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[25] [viXra:1511.0054](#) submitted on 2015-11-05 23:38:35, (42 unique-IP downloads)

**Universal Recursive Algorithmic Scheme For The Generation Of Sequence Of Prime Numbers (Of 2nd Order Space)**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[24] [viXra:1510.0514](#) submitted on 2015-10-31 02:09:22, (42 unique-IP downloads)

**Fulfill Your Life {Version 3}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[23] [viXra:1510.0474](#) submitted on 2015-10-29 03:13:43, (13 unique-IP downloads)

**Recursion Scheme Of The Sequence Of Primes {Of Second (2nd) Order Space}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[22] [viXra:1510.0428](#) submitted on 2015-10-27 23:43:58, (17 unique-IP downloads)

**Theory Of 'Complementable Bounds' And 'Universe(s) In Parallel' Of Any Sequence Of Primes Of RthOrder Space**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[21] [viXra:1510.0427](#) submitted on 2015-10-28 00:10:14, (19 unique-IP downloads)

**The Synonymity Between The Five Elements Of (At) Planet Earth And The Five Digits Of Human Palm**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[20] [viXra:1510.0395](#) submitted on 2015-10-26 07:10:54, (10 unique-IP downloads)

**Genuinity Validation Of Any 'Original Work Consciousness Of Concern' And Decorruping 'Corrupted Original Work Consciousness'**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[19] [viXra:1510.0391](#) submitted on 2015-10-26 02:45:01, (16 unique-IP downloads)

**Musical Life (Version II)**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[18] [viXra:1510.0384](#) submitted on 2015-10-25 03:55:36, (15 unique-IP downloads)

**Musical Life**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[17] [viXra:1510.0378](#) submitted on 2015-10-24 05:42:13, (23 unique-IP downloads)

**The Universal Wave Function Of The Universe (Verbose Form)**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[16] [viXra:1510.0353](#) submitted on 2015-10-22 10:45:14, (20 unique-IP downloads)

**Fulfill Your Life (Version 2)**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[15] [viXra:1510.0342](#) submitted on 2015-10-21 04:52:09, (16 unique-IP downloads)

**Fulfill Your Life**

**Authors:** [Ramesh Chandra Bagadi](#)  
**Category:** [General Mathematics](#)

[14] [viXra:1510.0327](#) submitted on 2015-10-19 05:30:35, (10 unique-IP downloads)

**Quantized Variable Dimensional Equivalents Of Any Technology Of Concern : An Example Of The (William F. Baker)'s Buttressed Core Design Concept**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[13] [viXra:1510.0144](#) submitted on 2015-10-17 08:12:44, (10 unique-IP downloads)

**Evolution Through Quantization**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[12] [viXra:1510.0130](#) submitted on 2015-10-15 04:14:17, (20 unique-IP downloads)

**Time Evolution Juxtaposition Of The Observables Based Dirac Type Commutator And The Consequential Wave Equation Of Photon**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [Mathematical Physics](#)

[11] [viXra:1510.0126](#) submitted on 2015-10-15 02:57:46, (19 unique-IP downloads)

**A Condition For The Suspension Of Gravitational Field**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [Classical Physics](#)

[10] [viXra:1510.0117](#) submitted on 2015-10-14 05:10:20, (22 unique-IP downloads)

**Some Basic Definitions Of Fractional Calculus**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[9] [viXra:1510.0096](#) submitted on 2015-10-12 09:07:32, (14 unique-IP downloads)

**Universal Recursive Crossing Science Of Genetic Kind**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[8] [viXra:1510.0091](#) submitted on 2015-10-11 06:46:45, (13 unique-IP downloads)

**Recursive Consecutive Element Differential Of Prime Sequence (And/ Or Prime Sequences In Higher Order Spaces) Based Instantaneous Cumulative Imaging Of Any Set Of Concern**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[7] [viXra:1510.0059](#) submitted on 2015-10-06 12:19:37, (15 unique-IP downloads)

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

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[6] [viXra:1510.0054](#) submitted on 2015-10-05 11:09:22, (19 unique-IP downloads)

**All You Need to Know About Euclidean and Euclidean Type Inner Product Scheme**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[5] [viXra:1510.0031](#) submitted on 2015-10-04 06:33:00, (15 unique-IP downloads)

**Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[4] [viXra:1510.0030](#) submitted on 2015-10-03 12:59:02, (14 unique-IP downloads)

**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**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[3] viXra:1510.0006 submitted on 2015-10-02 03:08:21, (22 unique-IP downloads)

**Universal Natural Recursion Schemes Of Rth Order Space**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[2] viXra:1509.0291 submitted on 2015-09-30 07:47:28, (21 unique-IP downloads)

**The Prime Sequence's (Of Higher Order Space's) Generating Algorithm**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

[1] viXra:1502.0100 submitted on 2015-02-14 03:41:23, (53 unique-IP downloads)

**The Prime Sequence Generating Algorithm**

**Authors:** Ramesh Chandra Bagadi

**Category:** General Mathematics

**Ramesh Chandra Bagadi**

**OTHER PUBLICATIONS**

1. 'Quantification Of The Criterion For Corrosion Onset'pp (1277-1284)  
Corrosion and Its Control: Proceedings of International Conference on Corrosion CORCON '97 A NACE International Conference, Nehru Centre, Mumbai, India, 3-6 December 1997, Elsevier Science Ltd Publishers, Vol. II, (1997) pp. 1067-1073, ISBN 13: **9780444829160**ISBN 10: 0444829164
2. 'Corrosion Of Galvanized Reinforcement Bars Due To An Electrothermodynamic Parameter: Pyroelectricity'pp (238-242)  
Proceedings of "International Conference on Maintenance and Durability of Concrete Structures: March 4 - 6, 1997", Hyderabad, India.ISBN 8173710686, ISBN 9788173710681.

**Ramesh Chandra Bagadi**



**arXiv Publications at <http://www.arxiv.org/abs/1009.3809v1>**

**Cornell University Library [arXiv.org](http://arxiv.org) > cs > arXiv:1009.3809v1**

**Computer Science > Data Structures and Algorithms**

**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.***