DNA OF ROULETTE

TOPOLOGICAL INTERACTION OF THREE MATHEMATICALLY REGULATED BINARY PATTERNS

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"Never become a Gambler who makes decisions on gut feel. Instead, become an intelligent Professional High Risk Taker who makes optimized rational decisions based on empirical evidence."

THE EVOLUTION PROCESS

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Expression of Gratitude

I wish to express my heartfelt gratitude to my nephew **Mr. Dulan Padma Sudasinghe** who devoted his most valuable time in compiling my original book which was printed and published in 2009, editing numerous subsequent versions over a period of two years and ultimately creating this final version the book and the software. Since then, Dulan spent sleepless nights and rendered his exceptional computer aptitude, skills and lateral thinking in developing this most valuable masterpiece of software with dedication and commitment of the highest order, despite repeated failures. Also, his magnanimous generosity must be acknowledged that he did all this work absolutely free of charge for the benefit of thousands of Roulette Players around the world. Had it not been for his inspirational support, I would never have achieved this task.

Furthermore, I shall never forget **Mr. Esoito** from Australia for having initiated the discussion forum on the Internet. Also, **Mr. Philip Malcolm** from the United Kingdom, the only person in this world who believed that I will accomplish the task of cracking the DNA of Roulette, despite repeated failures. Most importantly, both Esoito and Philip defended me in regard to criticism, sarcasm and cynical remarks made by the forum members. Also, Philip extensively and rigorously tested data and suggested the simplified wagering commencement methodology elaborated in this version. (**http://rouletteforum.cc/index.php?topic=1283.0**)

Also, I am extremely grateful to **Mr. Reggie Fernando**, the Sri Lankan correspondent of the London based Sri Lankan Newspaper "Newslanka" (WWW.NEWSLANKA.NET) which carried a full page article on Thursday the 9th June 2011 on the Law of the Third and the DNA of Roulette. Since then, this knowledge is used by Roulette Players in 53 countries around the world, as of now.

Last but not least, I wish to thank all those who reviewed my work and provided me with feedbacks by testing hundreds of large datasets. Their inputs, observations and remarks were of tremendous use in continuously improving, fine tuning and finally developing a system that yields a significant return in the long run, in view of the investment, risk and time spent. In addition, there are many others who facilitated numerous aspects of taking this wisdom to the world. You all contributed to accomplish a mission impossible.

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Introduction

Albert Einstein is alleged to have said that the Roulette Table can be outperformed only by stealing money when the dealers are not looking. Nassim Nicholas Taleb in his latest book, "The Black Swan", argues that what people see as patterns associated with random events are mere illusions created in the mind. On the contrary, Edward Lorenz in 1960, in his Theory of Chaos, observed that occurrences of a repeated activity may appear to be random and unrelated, but eventually a pattern emerges in the short term. **RCLV-RAILTRACK Strategy** is founded on three identified patterns termed as **P1AM2A**[1] **(S1)**, **M1AP2A**[2] **(S2)** and **INV/P1AM2A**[3] **(S3)** which emerge from time to time and continue for a period, lengthy enough to be explored. Upon detection of emergence of such a pattern, a reasonable profit can be made on a nominal fixed investment (10-15 chips), by wagering only for Dozens & Columns. The criterion for strategy optimization in this system is based on the visually observable Topological Interaction of the three[4] above strategies.

The term "Winning" can be defined as earning a reasonable positive return in the long run, in regard to the initial investment, time spent for wagering and the risk factors associated with the System. In view of the practical constraints in real casino environments, a winning system shall possess the following characteristics:

1. Provide consistent, <u>positive</u> results.
2. <u>Not</u> be based on luck in any way, shape or form.
3. Limit any losses that do occur.
4. Be easy to follow and fun to play

The European Roulette Wheel has 37 numbers including Zero[5] and there are three categories of Dozens and three categories of Columns. The individual numbers including the 0 are termed as "Inside" and all other wagering categories are termed as "Outside". There are specific table limits, in other words minimum and maximum wagering amounts pertaining to individual tables.

Four data sets comprising 30 data samples[6], containing 37 consecutive spins in each data sample, obtained by randomly entering ongoing sessions in a Real Casino on real-play mode and by randomly accessing a highly reliable Live Internet Casino on live-spin, auto-spin and computer-simulated (RNG) modes respectively, were used in this research. The same original data samples obtained from a Real Casino and an Internet Casino are used throughout to optimize the Return on Investment (ROI). After a comprehensive optimization[7], RCLV-RAILTRACK Strategy now yields a significant positive RO), with an acceptable relative frequency of failure.

The analysis of data revealed that the average occurrence of Distinct Numbers within 37 consecutive spins mentioned above is 24[8] and it is highly consistent among individual data tables. Based on this observation, an offline research was conducted and an empirical observation was made that if numbers are drawn X times from a collection **of** X different numbers[9] with replacement, **Y = 0.6291X + 0.2402**[10] distinct numbers will be present among the X

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[1] If the sign is **P**lus, observe the sign just **1** record **A**bove and if the sign is **M**inus, observe the sign just **2** records **A**bove.

[2] If the sign is **M**inus, observe the sign just **1** record **A**bove and if the sign is **P**lus, observe the sign just **2** records **A**bove.

[3] The **Inverse** of what is directed by **P1AM2A**.

[4] In all previous editions from the inception, S2 was considered as an active strategy but in this latest RCLV-RAILTRACK Wagering System, it is considered a neutral strategy and only used as a decision making criteria for strategy switching between S1 and S3. In other words, S1 and S3 are the only strategies that are used to direct wagering.

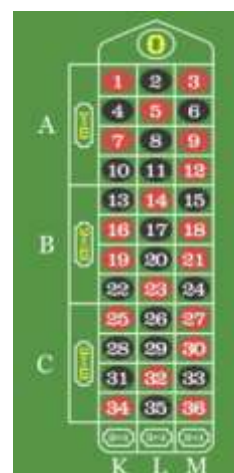[5] SYSTEM RCLV has not been tested for American Roulette which has a 0 and a 00.

[6] The same data samples were used in compiling all editions of the book.

[7] Optimized from five different perspectives by (a) minimizing the fixed investment, (b) mitigating the risk with an entry value, (c) minimizing the waiting time to commence wagering with two types of entry points, (d) minimizing the number of spins wagered for and (e) maximizing the operational convenience.

[8] Gamblers those who have observed this inexplicable phenomenon call it the "Law of the Third".

[9] For Regression purposes, each X number was tested for 30 data samples (from X = 1 to X = 50) and the mean value of distinct numbers in the 30 data samples was assumed to be the Y value corresponding to X.

numbers drawn. The Whole Number[11] pertaining to Y value shall be called COLONNE'S VALUE which is 24 for European Roulette, as X = 37. It is somewhat equivalent to a Centre of Gravity, even for any other kind of game[12].

Further, it can be clearly observed that the statistical balances are perfectly maintained among all wagering categories (HIGH/LOW, RED/BLACK, ODD/EVEN, DOZENS, COLUMNS and NUMBERS) in the long run. This clearly implies that perfect randomness prevails in the long run from all perspectives and the person(s) who spins the ball have no control over the outcomes. Most importantly, it must be observed that there are asymmetries associated with two out of three individual DOZENS (one has only low numbers and one has only high numbers) and two out of three individual COLUMNS (one has eight blacks and four reds and one has four blacks and eight reds)[13], on the roulette table layout. Also, it can be firmly established that the asymmetries associated with Dozens are more rigorous than the asymmetries associated with Columns. Similarly, there are asymmetries associated with the Roulette Wheel also (only reds and blacks are placed on the wheel in an alternative manner). Thus, an inference can be derived that the roulette table outcomes are externally regulated by forces of nature in order to maintain a nearly perfect overall statistical balance in the long run, especially among the DOZENS and COLUMNS, despite the asymmetries associated with them, while maintaining the Colonne's Value discussed above at 24. RCLV-RAILTRACK Strategy is an optimization of such visually observable regulatory patterns, which appears to be regulating the Roulette Table.

Hereafter, DOZENS 1-12, 13-24 & 25-36 are referred to as A, B & C (DOZEN IDs) and the COLUMNS beginning with the numbers 1, 2 & 3 are referred to as K, L & M (COLUMN IDs). The mean values for a session comprising 37 consecutive spins pertaining to the outside categories for the four data sets comprising 30 data samples are as follows:

Table 1

COLONNE'S VALUE	DOZENS			COLUMNS			HIGH/LOW		RED/BLACK		ODD/EVEN	
N/37	A	B	C	K	L	M	H	L	R	B	O	E
22.97	11.33	12.43	12.17	11.43	11.90	12.60	18.13	17.80	17.90	18.03	19.27	16.67

Table 2: Live Spin

COLONNE'S VALUE	DOZENS			COLUMNS			HIGH/LOW		RED/BLACK		ODD/EVEN	
N/37	A	B	C	K	L	M	H	L	R	B	O	E
23.73	12.13	11.93	11.93	12.43	10.70	12.87	18.00	18.00	17.83	18.17	17.27	18.73

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[10] Latest research observations reveal that the Lotteries are in conformity with this mathematical equation with precision accuracy.
[11] Rounded up to the nearest integer.
[12] The Colonne's Value for other kinds of games (e.g. Dice Games) can be derived by identifying the number of all equally probable likely outcomes and applying that number to the equation as X.
[13] Some roulette tables do not have column asymmetries and SYSTEM RCLV has not been tested for such tables.

Table 3: Auto Spin

COLONNE'S VALUE	DOZENS			COLUMNS			HIGH/LOW		RED/BLACK		ODD/EVEN	
N/37	A	B	C	K	L	M	H	L	R	B	O	E
24.00	11.80	12.07	12.23	11.77	11.67	12.67	18.53	17.57	18.20	17.90	18.53	17.57

Table 4: Computer Simulated

COLONNE'S VALUE	DOZENS			COLUMNS			HIGH/LOW		RED/BLACK		ODD/EVEN	
N/37	A	B	C	K	L	M	H	L	R	B	O	E
23.60	11.63	12.80	11.27	11.77	11.33	12.60	17.63	18.07	18.27	17.43	17.67	18.03

Colonne's Value and the overall statistical balances are highly consistent, irrespective of the mode of spinning. Therefore, Colonne's Value can be assumed as a universal triviality, arising from the linear equation discussed above.

Based on such observation, this new method of wagering termed as RCLV-RAILTRACK Strategy is discovered and it is much less complicated than all the earlier strategies.

Implications Arising from the Mathematical Equation Underlying the Law of the Third (Optional Reading)

The "**Law of the Third**" as observed and named by the Roulette Players is that approximately 1/3 of X (X = 37 for European Roulette and X = 38 for American Roulette) different numbers do not appear within X consecutive outcomes associated with a repeated random activity in quick succession, with replacement. After an extensive and a rigorous testing, the generic equation underlying this observation had been empirically established that if numbers are drawn X times from X different numbers with replacement, only **Y = 0.6291X + 0.2402** distinct numbers will be present among the X numbers drawn. Numbers ranging from 01 to 50 have been tested in the process of deriving the above generic equation. Each number had been tested 30 times with replacement and the average of distinct numbers present over the 30 data samples corresponding to each number (ranging from 01 to 50) were used as inputs in a regression analysis to establish the above equation. The best-estimated rounded-up Y value is termed as **Colonne's Value**.

When 30 data samples comprising 37 consecutive spins in each sample taken from European Roulette tables in real and internet casinos using all three modes of spinning such as live, auto and computer-simulated were analyzed, majority of the data samples had 24 distinct numbers and the average number of distinct numbers per data sample was also found to be 24. If X is equated either to 37 or to 38 in the above equation, the rounded up whole number pertaining to Y value becomes 24.

The most significant practical implication of this equation is that it enables predictability of occurrence of immediate future outcomes based on the past observations in repeated random events with replacement, which are perceived to be independent. For example, in European Roulette, if the last 24 numbers are observed and if it contains 20 distinct numbers, such numbers should repeat approximately 9 times within the next 13 consecutive events and only 4 out of 13 remaining non-occurred numbers are likely to occur within the same 13 consecutive events.
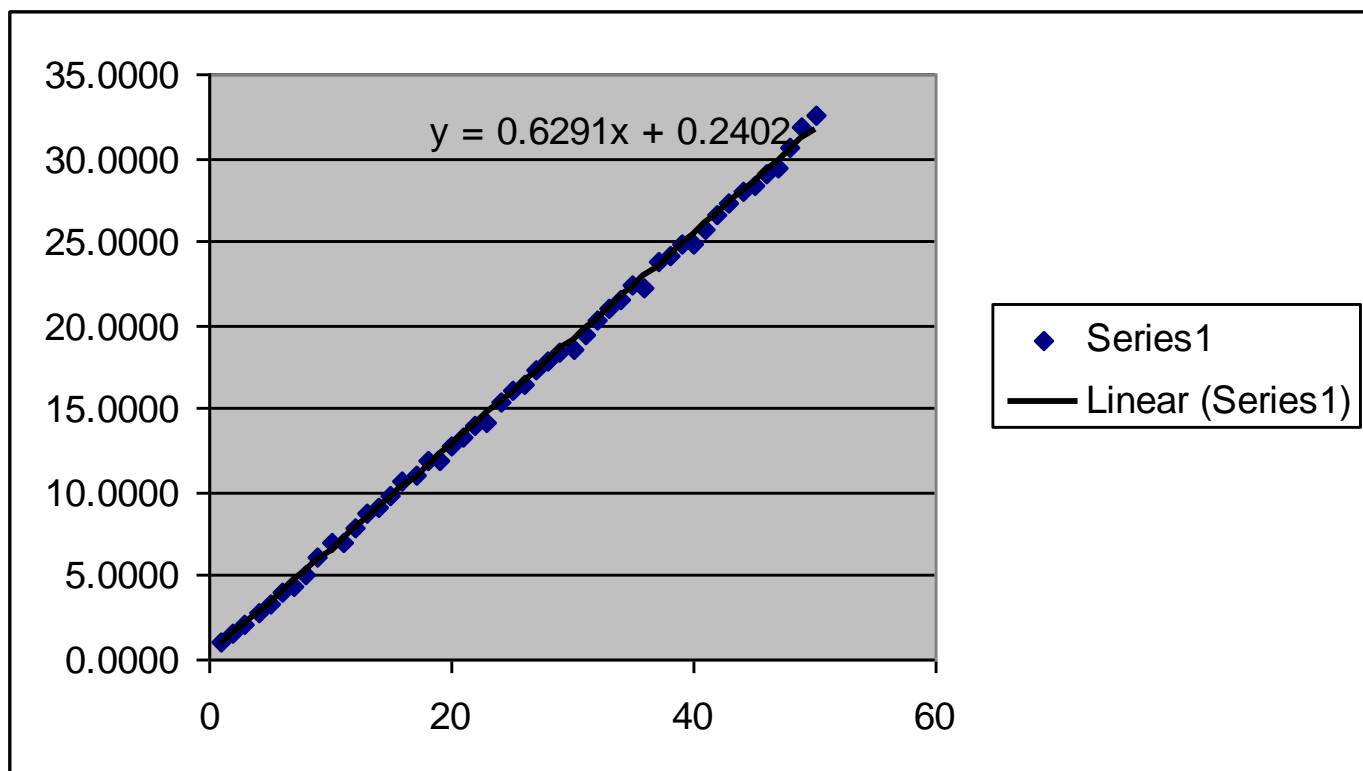
With the discovery of the mathematical equation of the Law of the Third, the conventional wisdom in regard to randomness with replacement pertaining to equally probable likely outcomes perceived to be independent holds only until the activity is repeated Y times with replacement in quick succession. The moment the availability of past records becomes greater or equal to the Colonne's Value (Y), the probability of the next number to occur becomes dependent on the number of distinct numbers present (assumed to be N) within the Y number of past records. As elaborated in the chapter above where X = 37, Y = 24 and N = 20, only 4 (= Y − N) out of 17 (= X − N) numbers which are not among the 20 (N) distinct numbers are likely to occur within the next 13 (= X − Y) consecutive events.

Therefore, within the next X − Y forthcoming consecutive events to be repeated in quick succession, the probability of occurrence of a number which does not belong to the N distinct numbers within the past Y consecutive spins is (Y − N) / (X − N). Under the old assumption of the events being independent, such probability would have been 13/37 ((X − Y) / X) instead of 4/17. Similarly, any number included in the 20 (N) distinct numbers found within the last 24 (= Y) past outcomes have to repeat 9 ((X − Y) − (Y − N)) times, within the next 13 (X − Y) consecutive events, in order to maintain the Colonne's Value for 37 consecutive spins. Thus, the probability of a number among the N distinct numbers within the Y past outcomes occurring within the next X − Y forthcoming consecutive events is 9/20 ((X − 2Y + N) / N), in contrast to the 13/37 probability under the old assumption.

This implies that after reaching the availability of Y past outcomes, the probability of occurrence of a number which is not included in N distinct numbers at the next event is (Y − N) / ((X − N)*(X − Y)) and the probability of occurrence of a number which is among the N distinct numbers at the next event is (X − 2Y + N) /((N*(X − Y)), against the conventional wisdom of 1/X. Also, such probabilities could vary from event to event as the N value can change from event to event.

Also, the precision accuracy of the Gradient (m = 0.6291) and the Interception (c = 0.2402) is not significant in regard to making decisions based on the Law of the Third, as only positive integers are used as Y value for such purposes in reality and the variation could only be either +1 or -1, in integer terms. As the X value becomes higher, the impact arising from the variation becomes further insignificant to make decisions. Also, there always can be marginal deviations and exceptions that could occur in regard to the probabilities defined above.

From a practical perspective, the concept of Arc Elasticity of Demand in Micro Economics can be emulated in the new Paradigm of randomness with replacement as an **Arc Probability** coming into effect pertaining to the (X − Y) forthcoming events, provided that a minimum of Y past records are available. Also, the equation underlying the Law of the Third being generic, it can be emulated into many other areas such as dice games and lotteries.

$$y = 0.6291x + 0.2402$$

RCLV-RAILTRACK User Guide

WAGERING DIRECTION CODES:

- **A:** The 1st Dozen containing the numbers from 1 – 12.
- **B:** The 2nd Dozen containing the numbers from 13 – 24.
- **C:** The 3rd Dozen containing the numbers from 25 – 36.

- **K:** The 1st Column containing numbers 1 – 34.
- **L:** The 2nd Colum containing the numbers from 2 – 35.
- **M:** The 3rd Column containing the numbers from 3 – 36.

OPERATIONAL INSTRUCTIONS:

- Enter the immediate past 10 spin outcomes and then continue to enter the new spin outcomes.
- The system will either start directing for wagering or it will instruct to **SHIFT**.
- Every time the **SHIFT** command appears, click the **SHIFT Button** once (and key in the next spin outcome).
- Upon reaching a session termination, the system will instruct to **RESET** by shifting the current record to the 10th record by entering the **Current Spin Record Number** (the number that appears on the first column in the extreme left of the screen) corresponding to the current spin in the **Cage on the Left of the RESET Button** and then click the **RESET Button**.
- A player may use intuition and discretion and continue to play without resetting.

FACILITATION OF A SEPERATE LINK FOR RESEARCH PURPOSES:

- The system is highly flexible and it facilitates uploading of .CSV files containing datasets, to facilitate data testing for a player to be convinced of the effectiveness of the system and also to develop own methodologies of wagering.
- Use the NEXT and PREVIOUS buttons for such purpose. There, the RESET Level is also being made flexible.

PREDICTION OF MOST LIKELY NUMBERS TO OCCUR USING THE LAW OF THE THIRD[14]:

A Dozen/Column consists of 12 numbers comprising 3 Sectors, containing 4 numbers each. A sector can be labelled with a Dozen ID and a Column ID. E.g. the sector which contains the numbers 14, 17, 20, 23 can be labelled as BL. Identify the sectors that are common to the Dozens and the Columns directed by the system. E.g. (a) If the system directs wagering for (X)**A**(X)**B**(X)**K**(X)**M**, there are four common Sectors AK, BK, AM & CM comprising 16 different numbers (b) If the system directs wagering for (X)**B**(X)**C**(X)**K**, there are only two common Sectors BK & CK (c) If the system directs wagering for (X)**C**(X)**L**, there is only one common Sector CL. Assuming the Colonne's Value to be 24 for European Roulette:

- Wager inside for the numbers belonging to the common Sectors that have already occurred during the past 24 spins. Among such numbers, the ones that have already repeated within the past 24 spins are more likely to occur. E.g. If wagering for (X)**B**(X)**C**(X)**L** is directed by the system (inferring the common Sectors BL & CL comprising the eight numbers 14,17,20,23 & 26,29,32,35) and if the past 24 spin outcomes are:

  1 **0** 16 **23** **26** 1 **26** **29** 4 9 **23** 2 9 2 36 **35** 25 **26** 2 6 34 7 2 11

  the numbers 23, 26, 29 & 35 are likely to repeat and among them 23 & 26 are more likely to repeat. Also, among such, 26 got the highest frequency of occurrence and it is most likely to occur.

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[14] The second phase of system development would visually indicate the most likely, highly likely and likely numbers for inside wagering that would make the gains exponential.

ZERO RISK HEDGING

- In order to avoid capital erosion, it is most appropriate that a sizable chip is being kept on "0" to hedge the risk, especially at the outset.

Conclusion

It is most evident that the probability of occurrence of a particular number as the next spin outcome varies from spin to spin, depending on the number of distinct numbers present within the last 24 spin outcomes (Colonne's Value for Roulette); based on the fact whether it is present among such distinct numbers or not. Also, the three regulatory patterns are formulated based on the last 4 spin outcomes. In summary, the **Old Hypothesis** of **Independent Events** needs to **be replaced** with the **New Hypothesis** of **Dependent Events** based on Past Outcomes**.**

Disclaimer

The user bears all the risks of either using RCLV-RAILTRACK Strategy or any concept from this book, in entirety. The author of this book, Don A. R. Colonne, is neither responsible nor liable for any loss or damage incurred by a user for either having used RCLV-RAILTRACK Strategy or using any concept from this book.

Voluntary Gratification

The author of this book sacrificed time, effort and resources for years to discover this most comprehensive grand winning strategy and decided to share the application software developed based on such invaluable knowledge with the whole world absolutely free of charge with a magnanimous generosity, for the benefit of thousands of victims of gambling and to facilitate further research by the others based on this new discovery. Also, if a user wants to gratify the author, Don A.R. Colonne, a voluntary contribution out of the winnings could be remitted to his bank account[15] by way of a telegraphic transfer using the SWIFT Code CCEYLKLX1496856501 with an e-mail notification to darcolonne@yahoo.com. Such financial assistance would help the author continue with his ongoing initiative in educating the general public and the school children in Sri Lanka at his personal expense, especially the underprivileged rural communities, towards educating them, elevating their life expectations and inculcating a socially responsible value system into them, in line with his self-defined Life Mission "Acquiring, Creating and Sharing Knowledge". When you make sufficient gains, visit Sri Lanka for a memorable holiday, the most beautiful country in the world which is known as the "Paradise on Earth". Also, if you make productive use of this application software, do not hesitate to make a courtesy call to the author on 0094-11-2811765 (from overseas) / 011-2811765 (using a mobile in Sri Lanka) / 2811765 (local call).

> Don A.R. Colonne is currently indulged in authoring the book titled "**Above Rationality: Strategy and Decision Optimization Under Conditions of Uncertainty**", which would be ready for publishing by December 2012 (international publishing rights are yet to be granted). This book addresses decision making form six perspectives; Contemporary Management Thought, Organizational Behaviour, Military Intelligence, New Institutional Economics, a Professional Hunter's Experience and Randomness. The content of this book, enriched by the tacit knowledge and experience of the Sri Lankan Armed Forces, is offered on numerous postgraduate courses in Sri Lanka as an Elective Module, including the prestigious MBA Program of the University of Wales conducted by the Imperial Institute of Higher Education.

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[15] Any Sri Lankan who wishes to do the same could make remittances in Sri Lankan Rupees into either the Account No. 1500457801 with Commercial Bank or 0009-5000-0732 with Sampath Bank.