Conventional representation of the Market from any point of view, and especially technical, is depicted in a one dimensional pane. A visible flat sliver of a multidimensional cube. It is very limited, unsatisfactory and ultimately futile in its quest to solve a myriad of day to day problems a successful trading model must handle both theoretically and practically.

Everywhere you turn one finds a one dimensional solution to a puzzle consisting of a multidimensional construct. It is like attempting to solve a rubik's cube given only ability to see and to work with one surface out of four. Furthermore, the difficulty is exacerbated by the fact that such a short sighted and incomplete view is based on a purely static interpretation of a Market Structure and its derivatives, rather than a dynamic and fluid understanding of something that is intrinsically by nature of its design, is in a constant flux due to the neverending real time input, absorption and processing of myriad of independent variables by thousands of independent, contradictory and competing participants at any given time.

All the terminology and explanations one finds in textbooks, all the indicators everyone is trying to design and has designed, all the systems and models people are building based on that general knowledge, all of it is a feeble attempt to explain and ultimately profit of the Market that has been in existence in its modern form for over a century. Its structure is the same as a hundred years ago; it functions in exactly the same way. Nothing has changed in its structure, nor its function; nothing at all, except the players and their speed of execution. Yet, in all that time with all that effort, with all that massive new information to process, accumulated over the aforementioned time span, nothing has really changed. In spite of all those books, all those ubiquitous indicators and all those theories created with the only purpose in mind - to enable participants improve their understanding of the Market and thus, at least implicitly, the results; we still, and shall continue, sadly adhere to the same old statistical mean - the very few still win; others, the most, still loose. The only question is what side of the mean you will find yourself on.

Quantitative models, for instance, are not at all comprehensive; by definition they do not attempt to explain the Structure of the Market and build Trading Algorithms according to it; but rather they merely are trying to profit off a simple, discernable and repeatable patterns based on some statistically viable qualities; an attempt to algo trade based on unexplained effect rather than a clearly understood cause. It's a display of logic in reverse; cure the wound, forget about the disease. The consequence of such ephemeral approach can be dire, as debacle of 2008 has plainly shown. And it makes perfect sense - how can one confidently and consistently deliver the alpha, no matter what the world throws at you, based only on what one observes, the effect, and not what one understands, the cause.

Hedge Funds that follow a conventional Market model, by definition engage in hedging their own inadequacies and shortcomings of dealing with the Market. Why would one need to allocate a portion of your working capital to buy an insurance policy against the positions you have taken in the first place, and which supposedly you believe in, since you still keeping it in spite of the ever more pronounced lights of a locomotive fast approaching you head on? Why would you on purpose activate a process designed exclusively and explicitly to limit one's ability to profit vis-a-vis a symmetrical trades where one is losing money and the other one is matching it in reverse? Why does one feels the need to engage in an artificial construct to fight the natural flow and ebb of the Market itself instead of being an intimate part of it? Why does one need to Hedge anything at all?

One does, unless one has a model that is truly capable of dealing with the Market's volatility and oscillations; which are basically nothing else then its natural state of existence. Then, one would not run and buy an insurance against your own convictions but rather, one, the logic dictates, would rather embrace such an all feared manifestations of the Market and trade them even more actively and aggressively in a assymetrical fashion rather than symmetrically, as a matter of norm.
Why would one be required or be forced, to conduct a purely defensive activity which by its very purpose limits you from making a profit, since the Hedge in and of itself is an activity that once activated, is a zero sum game; for it limits the subsequent capability to generate money and only enables one to protect whatever one is lucky to make up to that point and not any more from that moment on until the Hedge is no more.

The only reason for such unnatural approach is absence of any methodology, any tools, any technology truly capable of dealing with the Market's Structure and as a result, enabling one to fully apply to the Market in practical terms, their efforts and capital; rather than constantly hedging your own self doubt. What is needed is a technology able to conduct a non linear, asymmetrical approach to the Market and engage it constantly with full allocation of capital at any given moment; at any and all directions simultaneously as a coherent whole, a full strategic and tactical application; in the process fully taking advantage of the wonderfully elegant, logical and natural nexus of relations that define the very nature, the essence, the very fabric of the Market.

Such an endeavor is possible only if we turn the conventional explanations, terminology, methodology, approach and practical application itself, upside down. Instead of looking at the Market as a phenomenon which essence is exhibited as a one dimensional, rigid and static structure in space and time; we approach the latter from a more flexible perspective.

No more for example, misunderstanding conventional and misleading terms of Correction and Retracement and practical consequences in trading it entails. They do not belong to anything but in the themselves are totally independent trends which counteract the trend of a higher structure. The difference between them is that Retracements and Corrections are simply trends belonging to different Structures within the same Multidimensional Framework. When they are over, the new trend commences; this time in the same direction as still ongoing trend of a higher structure with which the trends in question have interacted; a process we call Synchronization. Practical application of looking at the Market this way are enormous and far reaching, requiring and empowering us to fundamentally reassess and reapply in a new fashion long standing solutions and practices so ubiquitous today among the traders. An entire concept of a Hedge takes on a whole new meaning. The idea of Hedging your position in a conventional sense becomes obsolete once one looks at the Market as a Multidimensional, Multi Trending Structure that is by its very nature provides an elegant built in Hedging Mechanism to resolve all the competing forces which make the Market sustain itself as a viable and extremely, quite contrary to a common perception, stable structure. Instead of defending your ongoing position by acquiring an insurance to protect the remaining profit in a related, correlated, different or the same market; not knowing whether an innocuous pullback turns into a more ominous Retracement or a devastating Correction in relation to the trend you still adhering to; simply treat and trade such an adverse movement in price as an independent tradable trend within a structurally correlated framework; from such a point of view the adverse price action is never a calamity but an opportunity - an opportunity to be one with the Market, an opportunity to make a profit.

One does not look at things like Bullish and Bearish flags, Ascending, Descending or Symmetrical triangles; Head and Shoulder patterns; some nebulous outline of a potential numerical wave, one of many, in the Elliot Wave Theory; Fibonacci Retracements, Convergence or Diversions on the myriad of technical indicators available everywhere these days; Volume spikes, Volatility change and even the News; as reasons for making viable trading decisions. Think about it, if you base your trading decision on any of the things textbooks or conventional wisdom teaches you, you will be at best, significantly behind the curve and at worst, at a loss. Why? Because all those things in reality merely is a belated reaction to something that already happened. You base your entry into the Market off the effect that you are not aware of and don't fully comprehend, and not the cause that explains clearly why something happens before the effect takes place. One has to be in tune with the Markets Structure, its dynamic, its heart beat. One has to be internal, not external to the Market; on the inside looking out, not the other way around.

We have observed, empirically confirmed and codified that the Market is a Multidimensional Tier Structure consisting of several independent, from trading standpoint, but related and interdependent trends, present at any and all Tradable Time Frames simultaneously. The Multidimensional aspect of the Structure consists in the fact that the Market Structure itself is an amalgamation of several interconnected, by their own multitude of trends, structures that are dynamic in nature, constantly in flux; a dynamic context not privy to any constant - a pyramid so to speak with no permanently defined width, length and height. Thus, such a pyramid defies conventional interpretation; it is not build in a regular architectural sense - a progressive sequence of ever smaller structures using a larger ones as a predicate for a subsequent move in a predefined direction. At any given time the Structures of the Construct can and do become inverted moving in the opposite direction of the Hierarchical Multi Tier Structure as whole. Within a pyramid you have an inverted pyramid being constructed at the same time. Like a black hole the pyramid can collapse upon itself given the forces of the Inversion, in the process being swallowed up by the very structure it has created. To ascend, and simultaneously if need be, to

descent such a pyramid one has to be truly fully aware at any given time and point, not of one trend but of all Concurrent Trends which might be Synchronised, moving in the same direction; or which might be moving on the collision course with other. This process is constantly at play. Its an environment where moving up and down acquires a brand new meaning, the Market can move up by moving down and down by moving up.
If asked, which way the Market is moving? Are you Long or Short? In a one dimensional world an answer is also one dimensional, thus, useless - up or down; Long or Short. It tells us nothing; or at the very best, too little. The real answer has a lot more depth than that. In a Multidimensional Market we have a number of interconnected trends playing off each other, creating and negating each other, converging and Synchronizing with each other.
A larger Structure creates and Encapsulates smaller Structures within itself which in turn can enhance it, modify it, or destroy it by metastasizing into a larger Structure themselves and spawning new Structures that can do in turn the same to it. It is an ongoing never ending process of creation and destruction - thesis and antithesis creating synthesis. The Encapsulated Structures continuously define, transcend and redefine its host Structure, expanding it or collapsing it, they constantly appear and reappear, moving forward and backwards, side to side, up and down and in such a process changing the form and shape of their own Structures and those to which they temporarily belong. Each Structure creates, sustains, enhances and modifies not only its own trend but other trends as well among the interdependent and Correlated Structures; so at any given moment, the Market exhibits a gamut of independent but related Trends, at times competing with each other; at other times enhancing each other. Each one of those Trends is an independent Trend that can be and must be traded as such. So to honestly answer the questions: “Is the Market currently up or down?”; “ Are you Long or Short?”, we have to refer to a specific Trend that we are trading and if we are trading all of the existing Trends simultaneously then of course we can be Short and Long at the same, just as much as the Market itself can be going up and down at the same time without any inherent contradiction.

Synchronization can occur among different Time Frames, as well as among numerous Trends within the same Time Frame. Each Time Frame; whether Weekly, Daily, 5 min or 1 min at any given time has the same Structural Framework and Multi Trending Correlation as any other Time Frame. Each provides Synchronization and Hedging Mechanism among the Concurrent Trends within the existing Structures. The former takes place when current Trends diverge in direction and subsequently align. The latter, when Trends are divergent. Conflicting Trends can be among both the Correlated Structures - Structural Trend;, and/or, within each Structure itself - Fractal Trends.

The number of Constructs defining the Multi Tier Structure, relentlessly react to each new piece of information, to each new trade, feed off each other, continuously expanding and collapsing onto each other both in space and time. The Trends that permeate and connect the Structures, continuously interact with each other and in the process give birth to a number of Trends that constantly converge into each other, support each other, Synchronise with each other; create and negate each other; thus, in such and by such a very process, such amalgamation,

juxtaposition and interaction of Trends both Structural and Fractal; substantially affect the very Structures that give them birth and by extension the Market Structure itself. It's a self perpetuating, self sustained never ending process; a life organism that is constantly in play feeding upon itself, contracting and expanding, creating and recreating new Structures upon and/or instead of old, creating new Trends, confirming old Trends of Structures not affected by the immediate changes.
Given such a complex dynamic, it is clear that conventional approach is far from adequate to put it mildly. We cannot simply apply solutions designed strictly for a linear approach in a non linear environment.

Our Structural Algorithm breaks down the Market's fabric into its most fundamental parts; to every and each data point, to each particular, to each fractal available. You can't drill down further than that. Based on that, the Algorithm continuously assigns various values to all the available data using them as a predicate to construct and delineate relationships among all the existing variables and as a result, establishes and maintains a number of interconnected Structures in a Multidimensional context, with each Structure having its own unique, independent from a trading perspective, but correlated from a Structural perspective, and clearly defined by beginning and an end, Trends. It defines, tracks and works with up to several simultaneous Dynamic Structures and Trends at the same time, in whatever time series one desires. At any given time we know exactly what the Market is doing and most importantly why it is doing it; with the predictable calculus built in as its natural function for further clarification and transparency.

What is the largest Structure with its own Trend? What are the related Structures with their own Trends which by definition defer to the largest Trend and are Encapsulated within? Each Structural Trend and each Fractal Trend are assigned a specific relationship that is being tracked continuously throughout the lifetime of the Structures and their corresponding Trends. It gives us a detailed map of unfolding Markets Synthesis in a Multidimensional Hierarchical Tier Framework. If an Inversion Process - a counter to the Structure's original Trend's price move of the Encapsulated Structure vis-a-vis its Fractal or Structural Trend(s); commences in any one of the related current Structures through a manifestation of a new Structural and Fractal Trends Encapsulated within the Structure in question or outside of it; we immediately are privy to the exact price levels where any one of the new Trends begins and ends not only for any specific Structure under consideration, but for all multiple levels simultaneously and continuously for the duration of their existence. As the Market moves in and out of the respective Structures, thus changing the most immediate Trends, while maintaining others; the Algorithm tracks the ensued changes and recalibrates its major levels of interest such as Support and Resistance levels for each Hierarchical Structure; Fib levels for each Structure, where a likely reversal might occur; the exact price levels when any of the current or future Trends might start or finish; an entry and exit signals. Thus if the largest Trend is in effect and a new Trend has appeared, they will either be in synch or not. If not, the Algorithm will initiate an entry contrary to the largest Trend with clearly defined exits points. As the price action advances it will eventually be contained within the larger Structure, in which case the process of Synchronization will take place between the two or more Trends; or, it shall violate the Structural boundaries, thus immediately changing the very relationship among the existing Structures and their respective Trends as well as some of the Trends themselves.

Each Structure within the Multi Tier Construct has a Hierarchical nexus to all others. There are clearly delineated and codified parameters, rules and prerequisites which are need to be satisfied that define each of the particulars within the whole and their relation to each other. This is an internal calculus built in the logical framework of the Rules Engine. Thus before a certain Structural Transcendency takes place - transformation, modification of one of the several existing Structures and their innate Trends into another within the Hierarchical order and the consequential tandem effect it carries on the Multi Tier Structure as whole; the Algorithm already knows in advance what is required for such Transcendency to take place and is actively looking for confirmation of such particulars before their actual manifestation within the Market enabling us to optimize the counter intuitive entry points for the most effective order placement.
Such an ability to execute based on the counter intuitive element injects an AI modicum into an overall logical and rules based framework of an Algorithm.

In each Structure we not only monitor its Primary Trend and its Structural relationship to the Multidimensional Structure it is a part of; but also, any auxiliary Trends created by any of the Encapsulated Structures within it which might appear at any time, whether they are contrary to that Trend's price direction or not. The Encapsulated Structures within any of the Structures to which they belong are subordinate to the one that created it; however, it can affect it in the most dramatic ways changing eventually even the Trend of the largest Structure in a Multi Tier Construct. Thus, the Fractal Trends, originated in the smallest Encapsulated Structures of a larger Structure within a larger Structure to the n th degree, have the inherent capacity to affect the entire Multidimensional Framework and all of its Trends through the Inversion Process, derivatives of which are known in the vernacular as the Retracements and Corrections. Every large Trend starts off from the most innocuous Fractal Trend and the ability to recognize that inception is priceless.

Also, the sequential evolution of related Structures and their corresponding Trends, provide us with the cunning ability to follow the genesis of a smallest Trend to the largest one and any in between, in one uninterrupted progressive sequence by adhering to and maintaining an actual trading exposure of the Fractal Trend as it progresses from Structure to Structure increasing in its importance and longevity; undergoing a metamorphosis with each succeeding Structure into a Structural Trend of a higher degree. The practical application of such structural relationship is emphasised by the ability of an Algorithm to enter an asymmetrical position at any given point in time against the Trends of the Higher Tiers, and maintain the trade as the Trend incrementally changes through the Inversion Process from an Encapsulated Structure to the Encapsulating Structure; from a Fractal Trend to a Structural Trend; from a smallest Trend to the largest one and any Trend in between. The Algorithm will continuously monitor the Structural

Transcendency of the position, adjusting and recalibrating in the process the vital old and new variables pertinent to the current nexus, to the rest of the Structural content such as new Support and Resistance points, Fib levels, new pertinent to the new Structural environment entry and exit points; all the elements vital to the new evolved point of reference of the Trend within a Multidimensional context - a spatial relation to the remaining Structures of the higher degree. Algorithm will also in tandem; as the Trend progresses and transcends within the Market Structure and as its byproduct, explicitly affect and change the framework of the Structure itself; engage in trading all the now Encapsulated Structural and Fractal Trends triggering thus, a natural Arbitrage and Hedging Mechanisms, Synchronization and Inversion Processes which may or may not terminate the Trend at any given point.

The Algorithm provides us with an incredible flexibility in understanding not only what the Market is doing and why it is doing it, but also a vast range of Analytical and Strategic capabilities.
The interplay of independently tradeable but Structurally Correlated Trends, provides tremendous pliability in choosing a myriad of highly diverse and effective Trading Strategies. Within such an environment we can choose to conduct a pure Arbitrage or a natural Hedge, by concurrent asymmetrical trading among any or all Trends simultaneously. We can conduct scalping, profit defined or a positional trading across all available Trends in tandem no matter whether they are in sync or not; all within the same Time Frame. There are times when all of the Multiple Trends both Structural and Fractal will be in full Synchronized mode; moving in the same direction. At other times the Trends shall intermittently diverge. By treating them as a fully autonomous trading vehicles we can set up an array of flexible strategies to explore their divergences to our benefit, since all of the Trends, and their juxtaposition to the Multi Tier Structure, are being monitored at any given time by the Algorithm. When Trends change, converge or Synchronize we can deal with any conceivable combination among the Trends by trading each one as not only a separate entity, but also as a part of the same coherent whole. While some move up, others move down; then, with subsequent Structural changes, the Trends, all or some, might Synchronize and move in the same direction with the Strategy acquiring new positions or providing us with new entry and or reentry points for Multi Positional or Profit Defined trades of a Higher Tier Trends we might still be exposed to.

The beauty and the hidden treasure is an obvious fact that competing, Non Synchronized Trends of equivalent Hierarchical Tiers almost always intersect, There is quite often a time lag when one Trend starts and the other one ends producing an overlap of contradictory Trends. The higher the Structure, the lengthier is the Trend, the larger and more insidious is the overlap before the trend of comparable opposite Structure becomes evident. By that time all of your profits or a substantial portion of it, might be in jeopardy. As pointed out before, each Structure is the Encapsulator of the Trends triggering the Inversion Process - an adverse price action that might or might not change this very Structure, its direction, it's very Trend as well as the logical relation to the Multi Tier Structure in a space and time continuum. It is this phenomenon of Encapsulation, propensity of each Hierarchical Structure within a Multidimensional Construct to plant the seeds of its own destruction, that also provides the very solution required to resolve

such an enigma. The very Encapsulated Trends are the very Trends that shall diminish the detrimental effects caused by the time lag, the overlap, and engage us in the natural Hedge vis-a-vis Fractal and Structural Non Synchronized Encapsulated Trends moving contrary to the main trend of the Structure in question.
Using only a one dimensional linear approach and execution, one simply can't deal with such a circumstance; given a nonlinear Multi Trending Structure we can easily not only deal with it, but profit from it as well. Thus, for a period of time your opposite trades will cancel each other out. And that is a the major difficulty afflicting most traders: position is going against you but the signal to exit is absent. That overlap, that time lag is your natural arbitrage, pure profit - your alpha. By being in the position at its very inception while being exposed to an opposite Trend at the same time, the Algorithm enables you to capitalise on being in the right trade once the belated signal is given, discarding the losing position while keeping the profitable one and cashing in on the overlap. It is also a solution to common technical patterns such as side trading, flags or triangles or any other such conspicuous patterns. A derivative of such a construct is the Slingshot Trade which is based on propensity of the Market to give a directional signal and immediately temporarily reverse, confusing the heck out of most traders; but instead, and the logic here is ingenious; the Market actually gives you enough time, already indicating the direction of the impending trade, to not only relinquish your current position contrary to the signal at a better price, but also at the same time, allows you to setup your new position and start incrementally accumulate your Multiples at better and better price; the closer it gets to your predetermined exit points the better no matter how counter instinctive it appears or feels; and then, the Slingshot Trade happens when the price action confirms the existing signal.

We do not look at the Market from outside reacting to every move it makes - an effect; rather we are inside the Market, knowing with great precision every move that is being made; looking outside from within the Multidimensional Structure; being intimately aware how the effect is going to be observed externally before it actually happens - the cause. Thus, for instance if one observes a potential bullish Flag is forming; we need first, to wait for the confirmation that it is indeed a Flag; second, once confirmed, assume that the direction of the bullish Trend will continue; wait for the break out on the upside, out of the Flag and only then initiate the Long position. For all intents and purposes that is an extremely inefficient and dangerous way to engage the Market. At best we are right but missed a substantial portion of the move, or we can be wrong - a false breakout. Or the Market will shortly after a confirmed breakout retrace to Fib levels or lower incurring immediate losses to our nascent position. And then, we have to figure out not only if the Fib area will hold, but also which specific Fib level will hold or not, exacerbating the issue especially if the range is substantial as is often the case when volatility picks up. It's a nerve racking and a miserable way to make a living. Point being, all of the above entails reacting to something after it has happened and not before. Our Algorithm allows us to be in the right position way before it becomes discernable to market participants looking from the outside in, seeing quite often nothing but an outline of something they imagine.

The synopsis of the aforementioned insight is this. The only effective way to deal with all the complexities of the Market's dynamic is to consider the Market, in each and every conceivable Trading Time Frame exclusively; as a Multidimensional Structure consisting of a multitude of interdependent trends, constantly undergoing a Structural metamorphosis depicted by the Market in the ever changing Structural and Fractal Trends of various degrees and duration, comprising in its synthesis a coherent Multi Tier Structural construct in flux. An Algorithm that establishes, maintains and controls such a dynamic, such a nonlinear environment in real time; serves as an engine for the logic and the rules for the Strategies generating real time automated feedback for such a calculus in the form of the buy and sell signals. It dynamically trades all the immediate Trends the Market exhibits in tandem, whether providing a natural Hedge Mechanism and an Arbitrage opportunities; or maximizing and leveraging trading through Synchronization; while concurrently, maintaining and enforcing the strictly defined relationships among the entire Structural Framework.

The latitude in the development of specific Strategies based on such an Algorithm, confined only to a singular Time Frame of choice; depends to a degree one is willing to engage all available Trends coexisting concurrently within such a Time Frame, whether we want to trade any one of them exclusively, in combination, or all Trends simultaneously. If trading objective entails design of a HFT or Scalping Strategies, then such Strategy's parameters will be confined only to the Encapsulated Fractal and Structural Trends without any explicit deference to Trends of Higher Structural Tiers. If objective is defined by a more extended trading horizon, whether a Day Trading exclusively or not, any and all combinations of Structural and Fractal trends across the gamut of the Hierarchical Structural Framework can be utilised to provide a wide range of Strategies capable of accommodating any trading plan and objective across a range of all available Markets and Instruments. Once we inject an element of Synchronization between different Time Frames within the same Market, the scope of all the possible variations in designing a viable and robust Automated Trading Strategies exponentially increases, providing another feasible layer of diversification and mitigation of risk.