

The Ultimate decidability, computability, and predictability of all things and processes.

Is it possible at this time for man to know if the ultimate decidability, computability, and predictability of all things can be determined and if so, does man have the ability to gain this knowledge? To answer this question, we must look at the progression of man's attainment of new knowledge over time and evaluate some of the hurdles that must be overcome by man internally and socially to allow the possibility for man to ever gain such knowledge.

The Observability Problem

To gain knowledge man must first have or be able to get the ability to observe the world because anything that can't be observed can't be known to exist or be understood in ultimate detail in structure and operational function. Man's ability to directly observe the world around him is very limited, both in the ability to observe the existence of things and in the ability to make detailed analysis of the things that are observed. As an example, man can only directly detect a very small portion of the electromagnetic spectrum. Man's eyes can see a small portion. Different frequencies appear as different colors, but details like the actual cycles per second and how many different frequencies of radiation are present can't be directly observed by man. A small portion can also be observed as heat, but the same limitations mentioned above apply here also. Man has, however, been able to develop external devices that have made the observation of all of the known range of the electromagnetic radiation frequencies possible. From this we can draw two conclusions. First, man can never completely know whether the world contains things that he can't observe, either directly or indirectly, that do not interact with the things that he can observe, so as to allow even indirect observation to occur. If any such things exist, man will never be able to detect them, therefore, decidability, computability, and predictability concerning such things cannot be determined. However, there may be things that don't interact with the matter particles and energy photons that man can detect at present, but if the velocity of things can be increased to the point that the fourth and fifth dimensional velocities of their matter particles can be great enough, it may be possible for them to have an interactional cross section small enough to interact with energy photons and matter particles that exist at much higher frequencies than those that man can detect at present. This could make it possible to detect and even travel into and interact with a much higher frequency range world containing galaxies with stars and planets, etc. that are much higher in motion content, but so much smaller than even the matter particles within our present frequency range of matter and energy structure such that they can't interact with them. The question then will be: are there smaller and smaller higher frequency ranges of structure and if so, will it just lead us to a bottomless pit of structural levels? It would also lead to the question of whether there are much less powerful, but greatly larger levels of structure and if so, how many? This means that even though man can't presently observe some things because they do not interact with presently detectable matter particles and energy photons, it may be possible that at least some of them may be detectable at a later time. We will not be able to determine whether all of such undetectable entities have been detected, however. The second conclusion that can be drawn is: since man's ability to make more observations and to make them in more detail has increased over time, we can't know at any time whether man is able to observe all things that he may at some time be able to observe and whether he has obtained the ability to observe all details of all things that are observed.

There can also be things in existence that man can never observe. As an example, if the world contains dimensions that we can't observe, it could be that what we see as our three-dimensional world might just be a subset of a much larger world with more dimensions. To give help to understand this to some extent, suppose that a finite two-dimensional world existed on the surface of a wall in your house and it contained small two-dimensional living creatures living in their houses on your wall. They could enter into their houses composed of lines in the shape of squares, with a small line on one wall that could swing open and closed for a door, and have privacy from all of the other two dimensional creatures in their world, but you could look down on them from above in the third dimension and see everything that they did, but they could not see you because they would not have access to the third dimension. There could be a whole series of such worlds with each one containing one more dimension than the next one down and containing all of the worlds with fewer dimensions. If you existed in the top highest dimensional world, you could be watching those in the next lower dimensional world while they watched those in the next lower dimensional world, etc.

Man's Internal Problems

Man has a strong internal individual survival instinct. One problem that this causes is that the possession of knowledge that others don't have, can help an individual protect himself from others who might wish to harm him in some way. It may also allow him to produce more and/or better things that he desires to have and also allow him to gain more in exchange with others who desire to have those things, but don't have the knowledge to produce them. This higher economic level can help him to better protect himself from others. Of course, the more that he possesses, the more that others may see him as a threat to them, which creates in his mind a never ending perceived need to continue to gain more knowledge and the things it can allow him to have. Since knowledge does not come to only one man, but is gained by many over time, the hoarding of knowledge by each man rather than sharing of knowledge with everyone else causes hinderance and delay to the overall growth rate and complexity of knowledge attainment. This also slows down the development of new devices to increase man's ability to observe more of the world and to do so with greater accuracy.

Another problem that man has is that each individual desires to believe that he is in some way better and more important than others like him. This is often partly a method of self-justification to allow him to not feel that he is doing anything wrong when he mistreats others for his own gain. If he thinks that he is a higher level (more evolved) person than all others, he can look upon others as just lesser animals that don't deserve to be treated as well as he does, but are just there to serve him. This has a lot to do with the perceived belief that one individual feels the need to be protected from others that causes the hoarding of knowledge as mentioned above. This desire to be perceived to be better than others can also cause attempts to hinder the release and acceptance of new knowledge that is contrary to the currently held beliefs by those who see that if they are seen to have held beliefs that will be proven to have been false or at least to have been incomplete by the new knowledge, they will lose their current position of positive recognition in the eyes of others and even have a harder time believing themselves to be superior to others in their own minds. They perceive that the release and acceptance of the new information could have many negative impacts upon their security and lives in general. Within a short time of living in this world it should be apparent to all that it is not possible for any of us to do all that we do perfectly. This works against the desired belief of the individual that he is a higher-level person than all others. If a person possesses enough wealth, he can pay others to do everything for him and then say that any imperfect result is the fault of his worker and not his fault. In this way he can be safe

in his belief that he is better than others. Of course, if you think about it a little it would be obvious that since he hired the worker to do the work, he is still at fault of hiring an imperfect person to do the job, but that is usually not mentioned. This belief that one is better and more important than others tends to be greater in those who do not believe in the existence of God because they tend to desire themselves to be the highest level of beings possible or as gods, while those who believe in God and believe that they were created by him can be content that God made them in the way that he desired them to be according to his own purposes.

Man's external Social Problems

It has been said that man is a social creature, but except at the family level where protection of the offspring and possibly the spouse can be as important to the individual parents as is their own individual protection, most social interactions between individuals tend to be extensions of internal individual instincts and beliefs that are designed to position the individual more positively for survival, importance, and better living conditions compared to others. There are those, especially some of those who believe in God, who base their actions more on love and a desire to see all to survive and have better lives, but they do not usually hold the higher positions in man's social structures because love can overpower the individual survival instincts, so they do not need to prove themselves to be more important or higher than others. Therefore, they generally do not need and are not driven to seek positions of power and control over others to fulfill individual survival instincts. Those who seek and get such positions tend to be the ones that use them to further their own positions at the expense of others. The result is that for the most part man's governments are usually controlled by and are usually used to further the gain of those who will tend to misuse their power for their own gain at everyone else's expense and in doing so greatly hold back the acquisition and proper use of scientific information. If man only had a social group survival instinct, so that all worked together for the maximum advancement of all, we would by now be exploring other galaxies and life would be much better for all than it is now for even those who are at the top of man's current power structure.

How man's current social structure inhibits knowledge acquisition and growth

Most of those who lead nations and even the United Nation in this world tend to believe that they need to have as complete as possible control over every aspect of the lives of all of those who they rule over. Many social devices are used to gain and maintain this control.

1. Knowledge is considered a form of power, so if you desire to have the greatest amount of power over others, you must as much as possible keep the ones that you rule over from gaining knowledge. This is accomplished by the use of many social devices:
 - a. Compartmentalization is used in the production and even in the maintenance of products. This can be seen in the assembly line structure of production where each person is only given the knowledge of how a small part of the whole product is made, so that none of them knows how to produce the whole device. In maintenance, one person may be trained to work on one part of the overall system to be maintained and another trained to maintain another part of the system, etc.
 - b. The public educational system is designed primarily to produce workers most of which do not need to have much high-level knowledge about how the world works or how man's inventions work. Students are taught to only accept that which they receive from their teachers and recognized leaders in a field and that ideas that differ from the

beliefs of such recognized leaders are false and people who believe such ideas are either foolish or crazy.

- c. Control is maintained over who can publish scientific and other information and who gets grants and other funds to live on and to do their scientific research, so that there is control over who can become a recognized leader in a field. Some will get these positions because they believe the information that those in power desire the general public to believe is true. Others may know that those beliefs are partially or completely false, but they publish papers that say they are true in order to get the high paying positions that recognized leaders get. Those in control realize that some scientists must know the truth in order for new scientific advancements to be made, so some are hired to work for private corporations or the government under strict secrecy contracts that prohibit them from giving out information to the public. They work in highly compartmentalized groups, so that one will not know what another is working on and, therefore, can't know the overall complete structure of what is known. The overall negative results are that most of those who work in the public scientific community waste much of their time putting out false information and even if they come up with valuable new information when doing their research, they may find that they can't publish it without losing their high paying position. Their best hope would be to try to get a good paying job working on projects for the government or private corporations. Those who do get such jobs find that they can't even publish the advancements that they make to others in the private science community because of the job compartmentalization.

The net affect of all of this is that many people who could advance scientific understanding are wasted doing less productive work because they are not given the training in school when they are young that would allow them to develop their abilities. At the same time many who work in the public scientific community waste much of their time producing false information and good information that they do produce through their research is often not propagated efficiently to others who might need that information to make their own contribution of good new information through the use of that needed information in their own research. At the same time those who work in the private scientific community waste much time often doing the same work over that someone else has already done in some other project, but they could not get that information because of the compartmentalization that is in effect in that community. The lack of sharing of information in that community can result in the lack of development of much new scientific information because a researcher needed information that someone else had already discovered and the researcher did not have the insight to develop that information himself. If a researcher gains new information from his research that is not needed for his current project the new information may never be used as it should be. Moreover, much of the information that is developed in the private scientific community may only be used in a very narrow range of applications such as military or space related fields, so many devices that can make life better for the general public may not be developed. Even devices that are developed such as those that can draw kinetic energy from the surrounding environment to generate electricity are not allowed in the public sector because those in power desire that the people must rely on them to provide power and all other things to them to remove as much as possible any ability of the general public to control their lives. They are taught to buy the things that they need from retail establishments and if they break down, they are to either get them repaired by authorized repair establishments or just throw them

away and buy new ones. The idea is to disable people as much as possible from doing anything for themselves or controlling their own lives in any way. In this environment it is not difficult to see why most people do not develop new concepts or devices to make life better for everyone.

Man's mind functions in some ways that are contrary to maximum scientific development

One of the problems man has that tends to work to make it hard for him to understand some things in the way that reality works is the tendency toward desiring and choosing extremes. Man would rather have everything work so that there is only one possible answer to any question or at most two opposing answers so he can choose one or the other. The problem with this is that in reality many things come in ranges. As an example, man tends to look at people as white or black when in reality people come in a range of colors with very few that are actually white or black. The topic of this paper is another example of this problem. It deals with the most extreme end of a range that has to do with the ultimate ability to decide, compute and predict all things in the world. In reality we live in a range of abilities to do such things that has varied over time from only being able to know things at the level of what we can directly observe to our current much greater abilities. When you understand this the more appropriate question would be: will man always be able to progress through this range of abilities of increasing conceptual understanding leading to new experimental observations that increases man's computing abilities and his ability to predict what new concepts should be explored to continue his progression through the range to its ultimate end where he will understand all of the true decisions, be able to compute a complete and accurate model of them and from there to be able to predict any changes to the entire system in the future? When you look at it that way it is easy to see that from our current position in the range, we can't see far enough ahead within the range to make that ultimate determination at present. To get an idea why this is the case, consider a time not too long in the past when in order to answer the question of whether an object can be infinitely subdivided or if you would at some point come to a minimum size piece or atom that could not be divided man had used chemistry and found that most large scale objects are not composed of only one substance so they can't be broken down into smaller pieces indefinitely and still remain the same thing. They had further divided things down to where they found that some substances could not be broken down further chemically and they called them the elements. It was determined from research that each element could be broken down to a minimum size piece or atom. If you asked them at that time to answer the question posed in this contest, most of them would likely answer yes because they believed that they had discovered about all there was to know about what matter is composed of. From our current perspective we can see that their belief was based on a lack of knowledge of structural details that hadn't yet been discovered. We are currently limited in our abilities because our position in the overall range of development only lets us see what we need to understand next. We can't see to the ultimate end result from our position in the overall flow of the range. It is best to work on what we can currently see needs to be understood to get to the next level. Some things do come in only one or two choices like the positive and negative magnetic poles of a magnet and man can work with them in many ways to produce usable devices, but magnetic fields can also be combined in many ways to produce structured fields that contain many variable field strengths at various places in the overall field pattern and man has a much greater difficulty in seeing and working in this area of structural ranges. Understanding such complex structural systems is necessary, however, to allow the ability to do such things as the building of matter structures by placing individual atoms in their proper places in the structure with their internal structural motions synchronized with each other to generate proper large scale field particle flow through the device to

build efficient high speed field propulsion devices, etc. Man desires to think of matter particles as little balls of some undefined substance because this is easier to process, but the problem is that they don't actually behave that way, but give many different outcomes during interactions with each outcome having its own particular probability, which screams out to the observer that there is an internal structure within them that varies over time and space during an interaction. This means that they contain internal motions. These motions generate various ranges of positioning within two particles when they interact causing the various possible outcome results and the probability of the occurrence of each result is due to the range of positioning during an interaction that will yield that result in comparison with the total of the ranges of all of the other outcomes that yield their particular results. In reality some interactions yield no outcome results, but they are not visible because it is the same result as no interaction at all. This is partly why a large number of particles must be aimed at each other to produce just a small number of outcome results. Man is more comfortable just believing that variable results come from some mostly undefined quantum foam or vacuum energy, etc. so he can ignore the real problem. This is similar to the case in the past where it was much simpler to just invent epicycles to explain the back and forth motions of planets so it could be believed that the sun and the planets all traveled around the earth instead of the more complex understanding that all of the planets including the earth travel around the sun and the earth revolves about its axis, etc.

Another of man's problems is the thought tunneling effect. When a man works on a problem he usually first starts with a hypothesis or belief as to how things actually work. He then devises experiments to test his belief. As he works into more and more detail to try to get his belief to conform to observed reality his mind gets more and more attached to his belief even if it turns out to contain proposed results that do not conform completely to observed reality. He becomes more and more blind to other alternative concepts that may fit reality closer than his does. This effect is currently exaggerated because many of the things that new hypotheses cover are not yet observable by man in detail, so much work is done just in math models that have not been tested by observational experiments. Most of these math models when carried out in detail do not conform to current observed reality. As workers invest more and more of their lives to try to get the theories to work, they get more invested into that particular belief and become blind to other alternatives. They tunnel down deeper and deeper into the problem only looking at the problem in a more and more limited way. In this way much time can be lost chasing and trying to get a faulty concept to fit reality. String theory is a good example. It started out trying to use one dimensional strings and later connected the ends of the strings to form a loop, which can be used to form a cyclical motion structure, but it is only two dimensional. In reality matter particles contain a three-dimensional cyclical motion path, which is necessary to produce a uniform three dimensionally equal static mass effect. The last time I checked, which was some time ago, they still had not reached that level. In addition to that, a matter particle also contains the back and forth variable motion structure at ninety degrees to the direction of travel of the energy photon that travels the three-dimensional cyclical enclosed path that makes it a matter particle. Then there is the structure of the internal and external fields of the matter particle, which must also be applied to the model to get it complete. They may ultimately get it right the way that they are doing it, but it would have been much faster to first look at the available observational data that shows that matter particles can be changed into energy photons and field particles, how energy photons can be changed into matter particles and field particles, and how field particles can be converted into energy photons and matter articles. The most obvious insight is that since they can all be converted into each other, they must all be composed of the same substance. Other observations show that they can all be converted into simple linear

and/or angular motions and visa versa. Of these possible structures, the simplest is the simple linear motion. Once you get this far it is not too difficult to figure out how they can all be constructed out of a few linear motions and a couple more dimensions for some of them to travel in. At that point it is much simpler to develop the math model image of the structure because you know what it must do. You can then use the new understanding of structure to develop experiments that will test for the validity of the structure. The more that you use observed reality to generate the hypothesis on which to build the model, the more the model will conform to reality from the start. The transformations mentioned above between matter particles, energy photons, field particles, and linear motions have all been observed in actual collisions between them, except man has not yet understood that field particles exist because he can't observe an individual field particle. This is why, when an electron in an atom receives energy from a photon and the photon disappears in the process of raising the electron to a higher level within the atom, they don't understand that it is only transformed from an energy photon into a field particle and when the electron later changes back to its normal lower level in the atom and emits an energy photon in the process, it is not a photon just appearing out of nowhere, but the electron interacts with a field particle in a high density field sphere that is part of the atom's exterior field and gives off the extra energy that it had previously received from the other energy photon to that field particle, which changes it into an energy photon, which then travels away from the atom. Everything comes down to motion transfers between these entities during interactions. There is no need for mysterious magical zero point or vacuum energy sources or quantum foam, etc.

What can individuals do to correct things and escape and change current circumstances for the better

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This depends on where you are in the social structure. Those in the controlled masses can wake up leave the controlled mass media and observe the world around them. Learn as much as possible about how things work, learn how to and do things for themselves to save money. Get out of debt. Buy a house, get a loan without a penalty to pay it off early and pay it off as quickly as possible. Research major purchases to get the best functions, most reliable, long lasting, and efficient appliances and devices possible for the money available. Save money. Take control of their lives as much as possible. Share this method with others and help them as much as possible. Upper level servants can do everything mentioned above. Work in the system to get laws changed to provide for better lives for all and not just for those in control of the system. If they can, start a business without debt that can be used to gain more control over their lives and help others by paying livable wages, etc. Those who control the system must understand that they are not better than others. They are just in a position of power that can be used selfishly for their own gain, which causes other's lives to be worse or they can use their position to make life good for all including themselves. They should choose the second option. It will ultimately give them better lives than they could get the other way. Provide good education for all with help to students to be sure they get the best training for the position that they are best prepared for genetically, mentally, physically, and choose to work in. Each person should be able to choose the position that he desires to work in. Positions that don't have enough people to work in should have wages and benefits increased until enough workers choose to work in that position. If too many people choose a position the wages and benefits should be lowered until the proper number choose it. All positions should pay a good livable minimum wage or above that. Production should be adequate to provide enough for all to have good lives with the wages that they receive. In order to have the resources to do these things some things would need to be changed. As an example, instead of

burning up the supplies of coal, oil, and natural gas to make electricity, conversion should be made to a solar energy and hydrogen gas economy. Solar energy would produce all of the daytime electrical needs and enough extra solar energy production would be implemented to generate enough hydrogen gas to power electric generators to supply electricity at night and during times when solar production is down for some reason such as on cloudy days, etc. Enough hydrogen gas would be produced to also power all motor vehicles of all kinds, etc. Hydrogen gas production could be greatly increased by use of new very high frequency methods to break water molecules down into hydrogen and oxygen gasses. The result would not only create a zero-pollution energy production structure, but would also preserve stores of coal, oil, and natural gas for use in the production of important things like fertilizers, plastics, and lubricants, etc. Once it is seen that this system creates a very stable and content citizenry, methods to draw kinetic energy from the surrounding environment could be introduced to the general population.

Will this actually work?

Only through teaching love for one another.