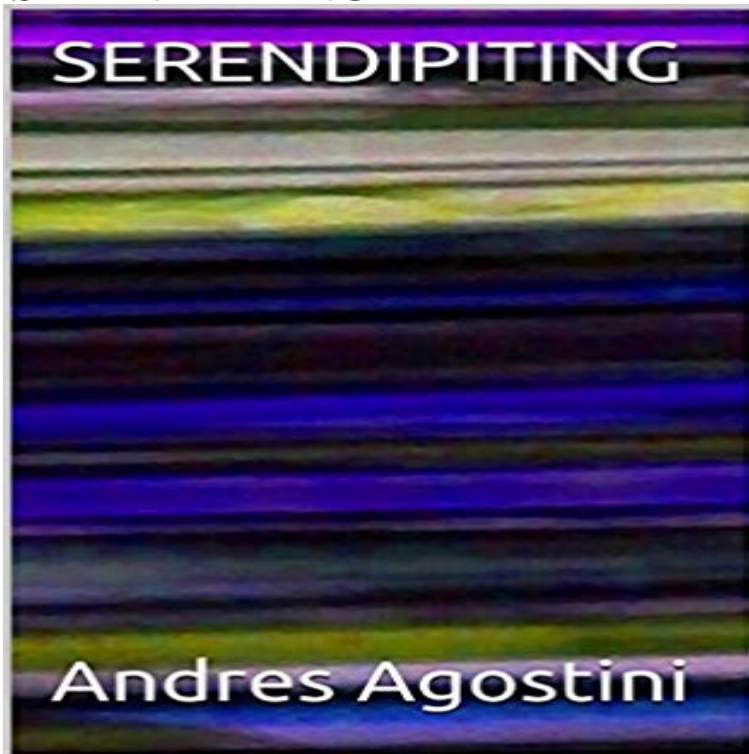


## SERENDIPITING



1.-) ...HUMAN KNOWLEDGE IS DOUBLING EVERY TEN YEARS [AS PER THE 1998 STANDARDS]... [226]

2.-) ...COMPUTER POWER IS DOUBLING EVERY EIGHTEEN MONTHS. THE INTERNET IS DOUBLING EVERY YEAR. THE NUMBER OF DNA SEQUENCES WE CAN ANALYZE IS DOUBLING EVERY TWO YEARS... [226]

3.-) ... BEGINNING WITH THE AMOUNT OF KNOWLEDGE IN THE KNOWN WORLD AT THE TIME OF CHRIST, STUDIES HAVE ESTIMATED THAT THE FIRST DOUBLING OF THAT KNOWLEDGE TOOK PLACE ABOUT 1700 A.D. THE SECOND DOUBLING OCCURRED AROUND THE YEAR 1900. IT IS ESTIMATED TODAY THAT THE WORLDS KNOWLEDGE BASE WILL DOUBLE AGAIN BY 2010 AND AGAIN AFTER THAT BY 2013 ... [226]

4.- ) ...KNOWLEDGE IS DOUBLING BY EVERY FOURTEEN MONTHS... [226]

5.-) ...MORE THAN THE DOUBLING OF COMPUTATIONAL POWER [IS TAKING PLACE] EVERY YEAR... [226]

6.-) ...The flattening of the world is going to be hugely disruptive to both traditional and developed societies. The weak will fall further behind faster. The traditional will feel the force of modernization much more profoundly. The new will get turned into old quicker. The developed will be challenged by the underdeveloped much more profoundly. I worry, because so much political stability is built on economic stability, and economic stability is not going to be a feature of the flat world. Add it all up and you can see that the disruptions and going to come faster and harder. No one is immune not me, not you, not Microsoft. WE ARE ENTERING AN ERA OF CREATIVE DESTRUCTION ON STEROIDS. Dealing with flatism is going to be a challenge of a whole new dimension even if your country has a

strategy. But if you dont have a strategy at all, well, again, youve warned... [226] 7.-) ...By the end of the twentieth century, science had reached the end of an era, unlocking the secrets of the atom, unraveling the molecule of life, and creating the electronic computer. With these three fundamental discoveries, triggered by the quantum revolution, the DNA revolution, and the computer revolution, the basic laws of matter, life, and computation were, in the main, finally solved [.] That epic phase of science is now drawing to a close; one era is ending and another is only beginning [.] The next era of science promises to be an even deeper, more thoroughgoing, more penetrating one than the last [.] Clearly, we are on the threshold of yet another revolution. HUMAN KNOWLEDGE IS DOUBLING EVERY TEN YEARS [AS PER THE 1998 STANDARDS]. In the past decade, more scientific knowledge has been created than in all of human history. COMPUTER POWER IS DOUBLING EVERY EIGHTEEN MONTHS. THE INTERNET IS DOUBLING EVERY YEAR. THE NUMBER OF DNA SEQUENCES WE CAN ANALYZE IS DOUBLING EVERY TWO YEARS ... Brackets are of the author. And 7.-) above continues here: ... Almost daily, the headlines herald new advances in computers, telecommunications, biotechnology, and space exploration. In the wake of this technological upheaval, entire industries and lifestyles are being overturned, only to give rise to entirely new ones. But these rapid, bewildering changes are not just quantitative. They mark the birth pangs of a new era [.] FROM NOW TO THE YEAR 2020, SCIENTISTS FORESEE AN EXPLOSION IN SCIENTIFIC ACTIVITY SUCH AS THE WORLD HAS NEVER SEEN BEFORE. IN TWO KEY TECHNOLOGIES, COMPUTER POWER AND THE DNA SEQUENCING, WE WILL SEE ENTIRE INDUSTRIES RISE AND FALL ON THE BASIS OF BREATHTAKING SCIENTIFIC

ADVANCES. SINCE THE 1950S, THE POWER OF OUR COMPUTERS HAS ADVANCED BY A FACTOR OF ROUGHLY TEN BILLION. IN FACT, BECAUSE BOTH COMPUTER POWER AND DNA SEQUENCING DOUBLE ROUGHLY EVERY TWO YEARS, ONE CAN COMPUTE THE ROUGH TIME FRAME OVER WHICH MANY SCIENTIFIC BREAKTHROUGHS WILL TAKE PLACE ... And 7.-) above continues here: ... BY 2020, MICROPROCESSORS WILL LIKELY BE AS A CHEAP AND PLENTIFUL AS SCRAP PAPER, SCATTERED BY THE MILLIONS INTO ENVIRONMENT, ALLOWING US TO PLACE SERENDIPITINGLIGENT SYSTEMS EVERYWHERE. THIS WILL CHANGE EVERYTHING AROUND US, INCLUDING THE NATURE

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