URGENT SPIRITUAL LESSONS FROM SCIENTIFIC CHAOTIC FIG TREES
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Abstract. During the past few decades a host of ideas have been established in order to study natural complexity, including the identification of pathways that progressively degrade "order" into the specific disorder of "chaos" and ideas that define a host of chaotic trees, as epitomized by the iconic Feigenbaum tree or "fig tree." This poster explains how such notions help us visualize the essential options we all face regarding order and disorder and shows how the ideas point us to the straight roots of such trees as the only common ground (i.e., "under the fig tree") where we all may achieve true order and peace. It is argued, citing a host of Biblical passages, that the modern concepts provide a rich symbolism consistent with ancient Scripture that, in particular, allows us to further appreciate, in a strikingly coincidental fashion, why Jesus may have, seemingly out of character, cursed and withered a fruitless fig tree as he rebuked the wind (evil in of itself in both instances) and why he may have asked us to learn a lesson from a fig tree and other trees (even from those chaotic ones budding in science twenty centuries later) as a mysterious and urgent precursor to his second coming. The implications of the notions regarding our need to be always watchful are emphasized, including our prescribed conversion by coming down our own "fig trees."

The Exquisite Dynamics of the Logistic Parabola

The Extraordinary Properties of the Chaotic Fig Trees

A Prophetic Fig Tree from Modern Science?

- The shoot of the tree is rightfully accursed as such corresponds to our disobedient states that, by amplifying beyond the gate \( Y = X \), take us away from our peaceful and ordered essence.
- The straight root is blessed, as convergence to zero reflects our diminishing and subsequent surrendering to God's will.
- Adam and Eve covered themselves with fig leaves that correspond to the same dust of death associated with the devil's fate.
- The key threshold is Jesus Christ, seen geometrically in the fact that only through him we can make it to the Father, the Origin.
- Jesus' invitation to conversion is reflected in the root, when he says "Unless a grain of wheat falls to the ground and dies, it remains just a grain of wheat; but if it dies, it produces much fruit."
- The scenarios in the fig tree also parallel the parable of the sower and Jesus' consistent words "people do not pick figs from thornbushes."
- The fig tree is cursed as Jesus rebuked the wind, that is, evil and the ruler of the power of the air, the devil, in both instances.
- Wandering forever in high heat is hell, and how wonderful it is to see an entry point to peace and God's protection in the plenitude of chaos.
- The trees herein show consistency with Scripture and in particular with Jesus' eschatological discourse.
- Are these connections happy coincidences or consistent pleas for our conversion?
- Although a precise time for the Parousia may not be drawn, the ax is at the root of the trees, and hence it is best to come down a chaotic tree as little Zacchaeus did.
- Righteousness is associated with being under the fig tree, at the root, as experienced by Nathanael the apostle.

References:
Please visit http://puente.lawr.ucdavis.edu/peace.htm

\[ X_{n+1} = \alpha X_n (1 - X_n), \ 0 \leq \alpha \leq 4 \]

Iterations yield a plethora of behaviors as a function of \( \alpha \). Let's review.

- From convergence to the origin to bifurcations of any order:
  \( 0 \leq \alpha \leq 1 \)

- Chaos and periodicity intertwined after all powers of 2 at \( \alpha_n = 3.5699 \):
  \( \alpha = 3.2 \)
  \( \alpha = 3.2 \)
  \( \alpha = 3.3 \)
  \( \alpha = 3.4 \)
  \( \alpha = 3.5 \)
  \( \alpha = 3.6 \)
  \( \alpha = 3.7 \)
  \( \alpha = 3.8 \)

- A summary of behaviors is the bifurcations diagram:

\[ X_{n+1} = X_n (1 - X_n) \]

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- Remarkably, there are values of \( \alpha \) that give periodic behavior for any natural number, and many values for which the dynamics do not repeat.

- Aperiodic behavior is termed chaotic as such cases exhibit extreme sensitivity to the initial condition \( X_0 \). Such dynamics wander forever in "strange attractors" that have the structure of dust.

\[ \frac{dX}{dt} = Y - X \]

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