

Unstable Singularities And Randomness

[#unstable singularities](#) [#randomness in systems](#) [#chaos theory](#) [#nonlinear dynamics](#) [#system unpredictability](#)

Explore the fascinating interplay between unstable singularities and inherent randomness within complex systems. This deep dive uncovers how seemingly small perturbations can lead to significant, unpredictable outcomes, touching upon critical concepts in chaos theory and the limits of predictability in nature and technology.

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Unstable Singularities And Randomness

Joseph P. (2004). Unstable Singularities and Randomness. Elsevier. p. 7. ISBN 0080474691. Kinniment, David J. (2008). Synchronization and Arbitration in... 20 KB (2,510 words) - 17:14, 7 September 2023

The attributes of singularities include the following in various degrees, according to context: Instability: because singularities tend to produce effects... 11 KB (1,408 words) - 00:21, 24 January 2024

Borderline personality disorder (BPD), also known as emotionally unstable personality disorder (EUPD), is a personality disorder characterized by a pervasive... 189 KB (19,246 words) - 02:10, 16 March 2024

formed by the least unstable periodic orbits, which can be identified in the eigenvalue spectra of SSA and M-SSA. The identification and detailed description... 42 KB (6,777 words) - 21:27, 9 February 2024
January 1970). "The Singularities of Gravitational Collapse and Cosmology". Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences... 148 KB (15,954 words) - 14:45, 11 March 2024

Although these singularities have been studied primarily on spatially homogeneous models, there are convincing reasons to assume that singularities in the general... 166 KB (20,980 words) - 23:21, 20 February 2024

decomposition methods like using the singular value decomposition. Some matrix decomposition methods may be unstable, but have straightforward modifications... 18 KB (2,507 words) - 03:52, 21 December 2023

certainty. A guess is also an unstable answer, as it is "always putative, fallible, open to further revision and interpretation, and validated against the horizon... 17 KB (2,286 words) - 02:18, 12 March 2024

up to some accuracy and some range for the input values, but some interesting phenomena such as solitons, chaos, and singularities are hidden by linearization... 21 KB (2,597 words) - 22:46, 8 March 2024

unstable correlation coefficient. Due to this inverse problem, ρ_{11} tends to be biased upwards and therefore close to 1 and hence... 10 KB (1,521 words) - 19:37, 21 February 2023

NewScientist December 13, 2008 Nurgaliev, I. S. (2010). "Singularities are averted by vortices". Gravitation and Cosmology. 16 (4): 313–315. Bibcode:2010GrCo..... 23 KB (2,771 words) - 03:00, 19

January 2024

years, but unstable coalitions or a no-confidence vote can dissolve a government earlier. The first Arab-led party was established in 1988 and as of 2022... 393 KB (38,071 words) - 03:39, 16 March 2024

to any change from its current state may be unstable, in which case the system is said to be in an unstable equilibrium. The magnitude of the forces that... 64 KB (7,183 words) - 17:12, 14 January 2024
resulting in a precision loss and making the Rayleigh–Ritz method numerically unstable in the presence of round-off errors. The loss of precision may be avoided... 37 KB (4,427 words) - 07:04, 12 December 2023

"Quantised singularities in the electromagnetic field". Proceedings of the Royal Society of London. Series A, Containing Papers of a Mathematical and Physical... 76 KB (7,908 words) - 11:05, 7 March 2024

probability that the erroneous output occurs, or it might be expressed as an unstable high energy state in the network. In contrast to supervised methods' dominant... 26 KB (2,360 words) - 00:38, 29 February 2024

This is a list of alternate history fiction, sorted primarily by type and then chronologically. American Civil War alternate histories Axis victory in... 112 KB (279 words) - 15:28, 19 February 2024

"Noncollision Singularities in a Planar Four-body Problem". arXiv:1409.0048 [math.DS]. Xue, Jinxin (2020). "Non-collision singularities in a planar 4-body... 189 KB (19,482 words) - 20:09, 2 March 2024
is small and the number of considered variables p is large, the above empirical estimators of covariance and correlation are very unstable. Specifically... 25 KB (3,923 words) - 01:36, 24 August 2023

well-conditioned problem may be either numerically stable or numerically unstable. An art of numerical analysis is to find a stable algorithm for solving... 38 KB (3,871 words) - 04:15, 1 March 2024

Singularities Explained | Infinite Series - Singularities Explained | Infinite Series by PBS Infinite Series 370,823 views 7 years ago 10 minutes, 23 seconds - Tweet at us! @pbsinfinite Facebook: facebook.com/pbsinfinite series Email us! pbsinfiniteseries [at] gmail [dot] com Previous ...

Intro

Dividing by X

Undefined infinity

Finite time blowup

Infinite water

Black holes

North Pole

Comments

How The Penrose Singularity Theorem Predicts The End of Space Time - How The Penrose Singularity Theorem Predicts The End of Space Time by PBS Space Time 1,664,455 views 3 years ago 16 minutes - The Nobel prize in physics this year went to black holes. Generally speaking. Specifically, it was shared by the astronomers who ...

Intro

Black Holes

geodesic incompleteness

Quantum mechanics

The Incredible Story Of Randomness - The Incredible Story Of Randomness by New Mind 395,043 views 3 months ago 22 minutes - In this comprehensive exploration of **randomness**, we delve into its perplexing nature, historical journey, statistical interpretations, ...

The Strange Mystery of Singularities And Evolving Universes - The Strange Mystery of Singularities And Evolving Universes by John Michael Godier 117,683 views 1 year ago 13 minutes, 42 seconds - An exploration of the various types of **singularities**, hypothesized to exist in the universe and an exploration of whether these ...

Bluetech - Sines And Singularities [Full Album] 40 - Bluetech - Sines And Singularities [Full Album] 40 by The Power of Psychedelic Trance 292,617 views 9 years ago 1 hour, 19 minutes - Tracklist: 1. Enter the Lovely 0:00 2. Condensation 8:10 3. Leaving Winter Behind 14:19 4. Forgiveness 22:15 5. Shulman - First ...

1. Enter the Lovely

2. Condensation

3. Leaving Winter Behind

4. Forgiveness

5. Shulman - First Came the Stars (Bluetech remix)

6. Pitch Black - Ape to Angel (Bluetech's Evolution remix)

7. Airstream

8. Dreamtime Lullaby

9. Shimmer

10. Wilderness

11. A Garland of Stars

Modern Robotics, Chapter 5.3: Singularities - Modern Robotics, Chapter 5.3: Singularities by Northwestern Robotics 33,026 views 6 years ago 6 minutes, 37 seconds - This video discusses robot **singularities**, and Jacobians where the number of joints is not equal to the number of components of the ...

Jacobian Matrices

Joint Forces

Redundant 3r Arm

The Most Efficient Way to Destroy the Universe – False Vacuum - The Most Efficient Way to Destroy the Universe – False Vacuum by Kurzgesagt – In a Nutshell 15,926,435 views 7 years ago 5 minutes, 59 seconds - What if there is a way to destroy the universe so fundamentally that life as we know it will be impossible forever? OUR CHANNELS ...

1. ENERGY LEVELS

2. STABILITY

FALSE VACUUM

Is a Technological Singularity Inevitable? - Is a Technological Singularity Inevitable? by Isaac Arthur 208,898 views 1 year ago 33 minutes - As computers have improved at an accelerating rate for generations now, fears of some emergent super intelligent computer mind ...

What is a Singularity? | Eternally Curious #11 - What is a Singularity? | Eternally Curious #11 by Federico Pistono ~~in~~ Love with Life 320,275 views 7 years ago 4 minutes, 21 seconds - What exactly is a **Singularity**? Why it happens, how, & demystification of this overinflated term. Sorry, couldn't resist the pun.

Fermi Paradox: The Malevolent Alien Megabrain Scenario - Fermi Paradox: The Malevolent Alien Megabrain Scenario by John Michael Godier 170,320 views 1 year ago 12 minutes, 22 seconds - An exploration of what I think is one of the spookiest solutions to the Fermi Paradox that could explain SETI's great silence.

10 Unsettling Possibilities Regarding Alien Life - 10 Unsettling Possibilities Regarding Alien Life by John Michael Godier 537,268 views 2 years ago 22 minutes - An exploration of ten unsettling possibilities regarding alien life. My Patreon Page: <https://www.patreon.com/johnmichaelgodier> My ...

The Protocols of Alien First Contact - The Protocols of Alien First Contact by John Michael Godier 229,093 views 2 years ago 20 minutes - An exploration of what happens when and if alien life is ever found and the different circumstances that could be involved.

10 Spooky Possibilities of the Multiverse - 10 Spooky Possibilities of the Multiverse by John Michael Godier 622,062 views 3 years ago 21 minutes - An exploration of ten spooky aspects of the multiverse and our universe within it. <https://www.patreon.com/johnmichaelgodier> ...

Spooky Possibilities of the Multiverse

10. Boltzmann Brains

Penrose Cosmology

The Strange Mystery of the Present

We Might Live in a Black Hole

Many Worlds

The Infinite Universe

Only One Universe

Other Dimensions

The Destruction of the Universe

The Unexplained

The Immortal Alien Civilization Paradox - The Immortal Alien Civilization Paradox by John Michael Godier 235,195 views 2 years ago 14 minutes, 48 seconds - An exploration of the possibility that civilizations may become immortal and choose to communicate on much longer timeframes ...

Does Quantum Entanglement Allow for Faster-Than-Light Communication? - Does Quantum Entanglement Allow for Faster-Than-Light Communication? by Cool Worlds 1,237,837 views 1 year ago 28 minutes - Quantum entanglement allows particles to affect one another faster than the speed of light. So does this mean we could one day ...

The FTL Dream

Relativistic FTL?
Quantum FTL?
Quantum 101
FTL Action at Distance
How to Exploit?
Idea 1: Repeat Measurements
Idea 2: Double Slits
Idea 3: XY Switching
Where From Here?
Outro & Credits
10 Reasons Aliens Might Not Contact Earth - 10 Reasons Aliens Might Not Contact Earth by John Michael Godier 181,828 views 1 year ago 19 minutes - An exploration of 10 Reasons Aliens Might Not Contact Earth and what that might mean for SETI and science in general, and also ...
Reasons Aliens Might Not Contact Earth
We're Not Advanced Enough
Aliens Never Contact Anyone
They Don't Know We're Here
We Are Alone in our Abilities to communicate
Don't Blow Your Planet's Cover
There's something About the Universe We Don't Know
HELLCALLER Warlock Hero Talents Have Arrived! Initial Thoughts and Impressions - HELLCALLER Warlock Hero Talents Have Arrived! Initial Thoughts and Impressions by Kalamazi 9,606 views 1 day ago 26 minutes - Intro: 0:00 Hellcaller Hero Talents: 0:44 Patreon, Summary and Outro: 24:18 ...
Intro
Hellcaller Hero Talents
Patreon, Summary and Outro
Chaos theory and geometry: can they predict our world? – with Tim Palmer - Chaos theory and geometry: can they predict our world? – with Tim Palmer by The Royal Institution 183,847 views 7 months ago 1 hour, 10 minutes - The geometry of chaos can explain our uncertain world, from weather and pandemics to quantum physics and free will. This talk ...
Introduction
Illustrating Chaos Theory with pendulums (demo)
Fractal geometry: A bridge from Newton to 20th Century mathematics
The three great theorems of 20th Century mathematics
The concept of State Space
Lorenz State Space
Cantor's Set and the prototype fractal
Hilbert's Decision Problem
The link between 20th Century mathematics and fractal geometry
The predictability of chaotic systems
Predicting hurricanes with Chaos Theory
The Bell experiment: proving the universe is not real?
Counterfactuals in Bell's theorem
Applying fractals to Bell's theorem
The end of spatial reductionism
What Happens After the Universe Ends? - What Happens After the Universe Ends? by PBS Space Time 2,153,183 views 3 years ago 18 minutes - Conformal Cyclic Cosmology is a story of the origin and the end of our universe from great mathematical physicist Sir Roger ...
Intro
Conformal Cyclic Cosmology
How Can An Infinite Universe Start From a Singularity Featuring Dr. Paul Matt Sutter - How Can An Infinite Universe Start From a Singularity Featuring Dr. Paul Matt Sutter by Fraser Cain 80,647 views 7 years ago 7 minutes, 29 seconds - Have you wondered about this seeming paradox? If we live in an infinite universe, how could it have started out as a **singularity**,?
Fooled by Randomness by Nassim Nicholas Taleb - Fooled by Randomness by Nassim Nicholas Taleb by Sawneez 461,210 views 7 years ago 10 hours, 1 minute
FOOLED BY RANDOMNESS SUMMARY (BY NASSIM TALEB) - FOOLED BY RANDOMNESS SUMMARY (BY NASSIM TALEB) by The Swedish Investor 204,878 views 4 years ago 12 minutes, 8 seconds - As an Amazon Associate I earn from qualified purchases. 5 great takeaways from Nassim

Nicholas Taleb's Fooled by ...

Intro

1. Survivorship Bias
2. The Skewness Issue
3. The Black Swan Problem
4. Pascal's Wager
5. The 5 Traits of The Market Fool

Fermi Paradox: The Singularity and Dormant Civilizations - Fermi Paradox: The Singularity and Dormant Civilizations by John Michael Godier 231,913 views 1 year ago 14 minutes, 18 seconds - An exploration of the technological **singularity**, and whether it will happen and what implications it has on astrobiology and solving ...

The Dark Side Of The Singularity | Answers With Joe - The Dark Side Of The Singularity | Answers With Joe by Joe Scott 779,516 views 6 years ago 13 minutes, 38 seconds - Or... How To Not Be A Horse. Automation and AI promise to usher in an era of amazing productivity and innovation. But they also ...

The BBC released a report just a few weeks ago that said that 30% of jobs are going to go away in the next 10 years because of automation.

The transportation sector actually makes up 25% of the jobs in the United States, if you can believe that.

Cadillac is so bullish on self-driving technology, they spent millions of dollars to create a lidar map of every highway in the United States using their own proprietary system.

Some people are talking about a basic minimum income, a flat amount of money that everybody in a society makes, as a safety net to keep people above water.

The question is, will we be able to change with it?

The Illusion of Certainty: Risk, Probability, and Chance - The Illusion of Certainty: Risk, Probability, and Chance by World Science Festival 694,882 views 9 years ago 1 hour, 28 minutes - Stuff happens. The weather forecast says it's sunny, but you just got drenched. You got a flu shot—but you're sick in bed with the ...

Josh Tenenbaum and an experiment in ESP.

Risk, Probability, and Chance.

Marcus du Sautoy's Introduction.

Participant Introductions.

Are we good or bad at interpreting numbers?

The Monty Hall problem.

The fight or flight math means we understand numbers?

The "numbers are important" experiment.

VerizonMath: Verizon doesn't know Dollars from Cents.

If you play a lottery and there is 1 winner in a 1000, what is your percent of winning?

How well are our brains tuned for evidential data.

What is the birthday problem?

The way probability's are phrased are as important as the numbers.

Do we have a conception of a million?

What is a prior?

Josh Tenenbaum ESP experiment results.

"Numbers are important" experiment results.

How do we get a statistical society?

SLT Summit 2023 - Singularities and Nonlinear Dynamics (Physics 3) - SLT Summit 2023 - Singularities and Nonlinear Dynamics (Physics 3) by Developmental Interpretability 113 views 8 months ago 1 hour, 19 minutes - Singularities, and nonlinear dynamics (following e.g. Strogatz). By Jesse Hoogland.

Professor Avi Wigderson on a computational theory of randomness - Professor Avi Wigderson on a computational theory of randomness by ETH Zürich 20,661 views 11 years ago 53 minutes - Avi Wigderson is a professor of Mathematics at the Institute for Advanced Study in Princeton. After studying Computer Science at ...

Plan of the talk

Distributed computation

Cryptography & E-commerce

What is random?

Pseudorandomness

Normal Numbers

Riemann Hypothesis & the drunkard's walk

Möbius' walk x integer, $p(x)$ number of distinct prime divisors

Weak random sources and randomness purification

Pseudorandom Tables

Single-source extractors Probabilistic algorithms with 1 weak random source

Deterministic de-randomization Hardness vs. Randomness

Summary

Multicollinearity (in Regression Analysis) - Multicollinearity (in Regression Analysis) by DATA

69,287 views 3 years ago 5 minutes, 57 seconds - In a regression analysis, multicollinearity occurs when two or more predictor variables (independent variables) show a high ...

Extreme events and how to live with them by Nassim Nicholas Taleb - Extreme events and how to live with them by Nassim Nicholas Taleb by Darwin College Lecture Series 113,027 views 4 years ago 1 hour, 4 minutes - Professor Nassim Nicholas Taleb, New York Distributions that are dominated by extremes and tail events require a completely ...

Classical Risk Theory, Redux

Reasoning Errors: It is not changing the color of the dress

Expert Problem

Big Data, Data Reduction

Behavioral Finance & Biases

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