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Scale-Free Networks: Complex Webs in Nature and Technology ...

Most complex systems are described as networks comprising nodes and edges. Real network examples include cells, food webs, the Internet, the World Wide

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Web (WWW), social relationships, and...

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G. Caldarelli, "Scale-Free Networks Complex Webs in Nature and Technology," Oxford University Press, Oxford, 2007.

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G. Caldarelli, "Scale-Free Networks Complex Webs in Nature ...

Caldarelli, Guido, 2007. "Scale-Free Networks: Complex Webs in Nature and Technology," OUP Catalogue, Oxford University Press, number 9780199211517.Handle: RePEc:oxp ...

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László Barabási For decades, we tacitly assumed that the components of such complex systems as the cell, the society, or the Internet are randomly wired together. In the past decade, an avalanche of research has shown that many real networks, independent of their age, function, and scope ...

PERSPECTIVE Scale-Free Networks: A Decade and Beyond

Some web-scale principles are already being applied in the networks run by providers of search, social networking, and web services such as Google, Facebook, Microsoft, and Amazon, but web-scale...

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Scaling networks for the web-scale effect | Network World

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Scale-Free Networks: Complex Webs in Nature and Technology ...

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Recent interest in scale-free networks started in 1999 with work by Albert-László Barabási and colleagues at the University of Notre Dame who mapped the topology of a portion of the World Wide Web, finding that some nodes, which they called "hubs", had many more connections than others and that the network as a whole had a power-law distribution of the number of links connecting to a node. After finding that a few other networks, including some social and biological networks, also had ...

Scale-free network - Wikipedia

Another significant recent discovery in the field of

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com-plex networks is the observation that many large-scale complex networks are scale-free, that is, their connectivity distributions are in a power-law form that is independent of the network scale [7, 8].

Complex Networks: Small-World, Scale-Free and Beyond

Abstract and Figures In the past few years, the discovery of small-world and scale-free properties of many natural and artificial complex networks has stimulated a great deal of interest in...

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(PDF) Complex networks: Small-world, scale-free and beyond

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Complex network. In the context of network theory, a complex network is a graph (network) with non-trivial topological features—features that do not occur in

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simple networks such as lattices or random graphs but often occur in graphs modelling of real systems. The study of complex networks is a young and active area of scientific research (since 2000) inspired largely by the empirical study of real-world networks such as computer networks, biological networks, technological networks, brain ...

Complex network - Wikipedia

Complex Networks Data Sets In analyzing large-scale complex networks, it is important to establish a standard dataset from which algorithms and claims be compared and verified. Currently, it is often difficult to

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track down the original data used for computational experiments.

Complex Network Resources - NIST

Networks will also have a greater focus on population health and addressing health inequalities in their local area, using data and technology to inform the delivery of population scale care models. As an example, this will be supported by the introduction of a new Tackling Neighbourhood Inequalities Service Specification to be delivered by PCNs signed up to the Network Contract DES from 2021/22.

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NHS England » Frequently Asked Questions: First iteration

Mark E. J. Newman, The structure and function of complex networks, *SIMA Review*, 2003, 45(2):

167-256 Xiaofan Wang, Guanrong Chen, Complex Networks: Small-world, scale-free and beyond, *IEEE Circuits and Systems Magazine*, 2003, 3(1): 6-20

Stefano Boccaletti, et al. Complex networks: structure and dynamics. *Physics Reports*, 2006,

IWCSN 2009, Bristol UK Introduction to Complex Networks

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Another significant recent discovery in the field of complex networks is the observation that a number of large-scale and complex networks are scale-free, that is, their connectivity distributions have the power-law form $P(k) \sim k^{-\gamma}$. A scale-free network is inhomogeneous in nature: most nodes have very few connections and a few nodes have many connections.

Pinning control of scale-free dynamical networks ...
A paper posted online last month has reignited a debate about one of the oldest, most startling claims in the modern era of network science: the proposition that most complex networks in the real world — from

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the World Wide Web to interacting proteins in a cell — are “scale-free.” Roughly speaking, that means that a few of their nodes should have many more connections than others, following a mathematical formula called a power law, so that there’s no one scale that characterizes ...

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