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The Pragmatic Programmers just published my book Complex Network Analysis in Python. Recognize → Construct → Visualize → Analyze → Interpret.. The book covers both elements of complex network analysis (CNA), including social network analysis, and the use of networkx for CNA. It covers not only social networks, but also product, semantic, event, interaction, and other types of networks.

Hi, I'm Eric. I'm a 'social impact data scientist'. Academically trained in ecology, statistics, and network science; practically trained in the use of 'big data' (and revealing its abuse), I work with social mission companies, organizations, corporate initiatives, investors, and philanthropists to use data for good. Hi, I'm Eric. I'm

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Complex Networks: Principles, Methods and Applications

Networks are a standard representation of data throughout the sciences, and higher-order connectivity patterns are essential to

understanding the fundamental structures that control and mediate the behavior of many complex systems (1-7). The most common higher-order structures are small network subgraphs, which we refer to as network motifs (). ...

Higher-order organization of complex networks | Science

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Eric L Berlow: - Ecology, Complex Networks, Data Science

The research of complex networks and systems The analysis of networks has received a major boost caused by the widespread availability of huge network data resources in the last years. One of the most surprising findings, popularized by Albert-László Barabási and his team, is that real networks behave very distinct from traditional assumptions of network theory.

Network science

Network science is an academic field which studies complex networks such as telecommunication networks, computer networks, biological networks, cognitive and semantic networks, and social networks, considering distinct elements or actors represented by nodes (or vertices) and the connections between the elements or actors as links (or edges).

Network science - Wikipedia

The International Conference on Complex Networks and their Applications aims at bringing together researchers from different scientific communities working on areas related to complex networks. Two types of contributions are welcome: theoretical developments arising from practical problems, and case studies where methodologies are applied.

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Benefiting from the advances of network science and high-throughput biomedical technologies, studying the biological systems from network biology has attracted much attention in recent years, and networks have long been central to our understanding of biological systems, in the form of linkage maps among genotypes, phenotypes, and the corresponding environmental factors.

Computational network biology: Data, models, and ...

Complex networks are everywhere; there is a network where any kind of information is exchanged. Many real-world systems in nature can be modeled as networks of interacting dynamical node. Internet, World Wide Web, social interactions, biological and economical systems and neural networks are only a few such examples.

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To tackle this general problem, two methods have emerged, at chronologically different times, that are now commonly used in the scientific community: data mining and complex network theory. Not only do complex network analysis and data mining share the same general goal, that of extracting information from complex systems to ultimately create a ...

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