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Networkx Network Analysis With Python

Lei Huang



Networkx Network Analysis With Python:

Complex Network Analysis in Python Dmitry Zinoviev,2018 Network Science with Python and NetworkX Quick Start Guide Edward L. Platt,2019-04-26

Manipulate and analyze network data with the power of Python and NetworkX Key Features Understand the terminology and basic concepts of network science Leverage the power of Python and NetworkX to represent data as a network Apply common techniques for working with network data of varying sizes Book Description NetworkX is a leading free and open source package used for network science with the Python programming language NetworkX can track properties of individuals and relationships find communities analyze resilience detect key network locations and perform a wide range of important tasks With the recent release of version 2 NetworkX has been updated to be more powerful and easy to use If you re a data scientist engineer or computational social scientist this book will guide you in using the Python programming language to gain insights into real world networks Starting with the fundamentals you ll be introduced to the core concepts of network science along with examples that use real world data and Python code This book will introduce you to theoretical concepts such as scale free and small world networks centrality measures and agent based modeling You ll also be able to look for scale free networks in real data and visualize a network using circular directed and shell layouts By the end of this book you ll be able to choose appropriate network representations use NetworkX to build and characterize networks and uncover insights while working with real world systems What you will learn Use Python and NetworkX to analyze the properties of individuals and relationships Encode data in network nodes and edges using NetworkX Manipulate store and summarize data in network nodes and edges Visualize a network using circular directed and shell layouts Find out how simulating behavior on networks can give insights into real world problems Understand the ongoing impact of network science on society and its ethical considerations Who this book is for If you are a programmer or data scientist who wants to manipulate and analyze network data in Python this book is perfect for you Although prior knowledge of network science is not necessary some Python programming experience will help you understand the concepts covered in the book easily

Complex Network Analysis in Python Dmitry Zinoviev,2018-01-29 Construct analyze and visualize networks with networkx a Python language module Network analysis is a powerful tool you can apply to a multitude of datasets and situations Discover how to work with all kinds of networks including social product temporal spatial and semantic networks Convert almost any real world data into a complex network such as recommendations on co using cosmetic products muddy hedge fund connections and online friendships Analyze and visualize the network and make business decisions based on your analysis If you re a curious Python programmer a data scientist or a CNA specialist interested in mechanizing mundane tasks you ll increase your productivity exponentially Complex network analysis used to be done by hand or with non programmable network analysis tools but not anymore You can now automate and program these tasks in Python Complex networks are collections of connected items words concepts or people By exploring their

structure and individual elements we can learn about their meaning evolution and resilience Starting with simple networks convert real life and synthetic network graphs into networkx data structures Look at more sophisticated networks and learn more powerful machinery to handle centrality calculation blockmodeling and clique and community detection Get familiar with presentation quality network visualization tools both programmable and interactive such as Gephi a CNA explorer Adapt the patterns from the case studies to your problems Explore big networks with NetworKit a high performance networkx substitute Each part in the book gives you an overview of a class of networks includes a practical study of networkx functions and techniques and concludes with case studies from various fields including social networking anthropology marketing and sports analytics Combine your CNA and Python programming skills to become a better network analyst a more accomplished data scientist and a more versatile programmer What You Need You will need a Python 3 x installation with the following additional modules Pandas 0 18 NumPy 1 10 matplotlib 1 5 networkx 1 11 python louvain 0 5 NetworKit 3 6 and generalizesimilarity We recommend using the Anaconda distribution that comes with all these modules except for python louvain NetworKit and generalizesimilarity and works on all major modern operating systems *Python for Graph and Network Analysis* Mohammed Zuhair Al-Taie, Seifedine Kadry, 2017-03-20 This research monograph provides the means to learn the theory and practice of graph and network analysis using the Python programming language The social network analysis techniques included will help readers to efficiently analyze social data from Twitter Facebook LiveJournal GitHub and many others at three levels of depth ego group and community They will be able to analyse militant and revolutionary networks and candidate networks during elections For instance they will learn how the Ebola virus spread through communities Practically the book is suitable for courses on social network analysis in all disciplines that use social methodology In the study of social networks social network analysis makes an interesting interdisciplinary research area where computer scientists and sociologists bring their competence to a level that will enable them to meet the challenges of this fast developing field Computer scientists have the knowledge to parse and process data while sociologists have the experience that is required for efficient data editing and interpretation Social network analysis has successfully been applied in different fields such as health cyber security business animal social networks information retrieval and communications

Artificial Intelligence of Things Rama Krishna Challa, Gagangeet Singh Aujla, Lini Mathew, Amod Kumar, Mala Kalra, S. L. Shimi, Garima Saini, Kanika Sharma, 2023-12-02 These two volumes constitute the revised selected papers of First International Conference ICAIoT 2023 held in Chandigarh India during March 30 31 2023 The 47 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 401 submissions The two books focus on research issues opportunities and challenges of AI and IoT applications They present the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of AI algorithms implementation in IoT Systems Computer Security - ESORICS 2023 Gene Tsudik, Mauro Conti, Kaitai Liang, Georgios Smaragdakis, 2024-01-10

The four volume set LNCS 14344 14347 constitutes the refereed proceedings of the 28th European Symposium on Research in Computer Security ESORICS 2023 which took place in The Hague The Netherlands during September 25 29 2023 The 93 full papers presented in these proceedings were carefully reviewed and selected from 478 submissions They were organized in topical sections as follows Part I Crypto Part II Network web and internet privacy and remote Part III Attacks blockchain and miscellaneous Part IV Machine learning software and systems security **ICT Systems and Sustainability** Milan Tuba, Shyam Akashe, Amit Joshi, 2025-12-25 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 10th International Conference on ICT for Sustainable Development ICT4SD 2025 held in Goa India on 17 19 July 2025 The book covers topics such as big data and data mining data fusion IoT programming toolkits and frameworks green communication systems and network use of ICT in smart cities sensor networks and embedded system network and information security wireless and optical networks security trust and privacy routing and control protocols cognitive radio and networks and natural language processing Bringing together experts from different countries the book explores a range of central issues from an international perspective

Guide to Programming for the Digital Humanities Brian Kokenstapfer, 2018-08-23 As an introduction to programming for the Digital Humanities DH this book presents six key assignments oriented on DH topics The topics include Computing Change Over Time calculating burials at a historic cemetery Visualizing Change Over Time visualizing the burials at the historic cemetery Textual Analysis finding word frequencies and stop words in public domain texts XML Transformation transforming a simplified version of XML into HTML styled with CSS Stylometry comparing the measured features of graphic images and Social Network Analysis analyzing extended relationships in historic circles The book focuses on the practical application of these assignments in the classroom providing a range of variations for each assignment which can be selected on the basis of students specific programming background and skills atomic assignments which can be used to give students the experience they need to successfully complete the main assignments and some common pitfalls and gotchas to manage in the classroom The book's chief goals are to introduce novice computer science CS students to programming for DH and to offer them valuable hands on experience with core programming concepts [Handbook of Research on Big Data Storage and Visualization Techniques](#) Segall, Richard S., Cook, Jeffrey S., 2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on

a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Protein-Protein Interactions Shahid Mukhtar,2023-07-14 This detailed volume provides a comprehensive collection of classic and cutting edge methods and techniques in mapping protein protein interactions The chapters include a variety of in vitro and in vivo experimental methods covering cell biology biochemistry and biophysics In addition the book also explores in silico methods including sequence structure and phylogenetic profile based approaches as well as gene expression and machine learning methods Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols as well as tips on troubleshooting and avoiding known pitfalls Authoritative and practical Protein Protein Interactions Methods and Protocols serves as an ideal guide for researchers working in protein science and beyond

Analysing Users' Interactions with Khan Academy Repositories Sahar Yassine,Seifedine Kadry,Miguel-Ángel Sicilia,2021-11-15 This book addresses the need to explore user interaction with online learning repositories and the detection of emergent communities of users This is done through investigating and mining the Khan Academy repository a free open access popular online learning repository addressing a wide content scope It includes large numbers of different learning objects such as instructional videos articles and exercises The authors conducted descriptive analysis to investigate the learning repository and its core features such as growth rate popularity and geographical distribution The authors then analyzed this graph and explored the social network structure studied two different community detection algorithms to identify the learning interactions communities emerged in Khan Academy then compared between their effectiveness They then applied different SNA measures including modularity density clustering coefficients and different centrality measures to assess the users behavior patterns and their presence By applying community detection techniques and social network analysis the authors managed to identify learning communities in Khan Academy s network The size distribution of those communities found to follow the power law distribution which is the case of many real world networks Despite the popularity of online learning repositories and their wide use the structure of the emerged learning communities and their social networks remain largely unexplored This book could be considered initial insights that may help researchers and educators in better understanding online learning repositories the learning process inside those repositories and learner behavior

Pattern Recognition Ansel Yoan Rodríguez-González,Humberto Pérez-Espinosa,José Francisco Martínez-Trinidad,Jesús Ariel Carrasco-Ochoa,José Arturo Olvera-López,2023-06-08 This book constitutes the refereed proceedings of the 15th Mexican Conference on Pattern Recognition MCPR 2023 held in Tepic Mexico during June 21 24 2023 The 30 full papers presented in this book were carefully reviewed and selected from 61 submissions The papers are divided into the following topical sections pattern recognition and machine learning techniques deep learning and neural networks medical

applications of pattern recognition language processing and recognition and industrial applications of pattern recognition

Mining Influence in Recommender Systems Al Mumunur Rashid,2007 *Exploring Network Structure, Dynamics, and Function Using Networkx* ,2008 NetworkX is a Python language package for exploration and analysis of networks and network algorithms The core package provides data structures for representing many types of networks or graphs including simple graphs directed graphs and graphs with parallel edges and self loops The nodes in NetworkX graphs can be any hashable Python object and edges can contain arbitrary data this flexibility makes NetworkX ideal for representing networks found in many different scientific fields In addition to the basic data structures many graph algorithms are implemented for calculating network properties and structure measures shortest paths betweenness centrality clustering and degree distribution and many more NetworkX can read and write various graph formats for easy exchange with existing data and provides generators for many classic graphs and popular graph models such as the Erdos Renyi Small World and Barabasi Albert models are included The ease of use and flexibility of the Python programming language together with connection to the SciPy tools make NetworkX a powerful tool for scientific computations We discuss some of our recent work studying synchronization of coupled oscillators to demonstrate how NetworkX enables research in the field of computational networks

Data-Driven Security Jay Jacobs,Bob Rudis,2014-02-24 Uncover hidden patterns of data and respond with countermeasures Security professionals need all the tools at their disposal to increase their visibility in order to prevent security breaches and attacks This careful guide explores two of the most powerful data analysis and visualization You ll soon understand how to harness and wield data from collection and storage to management and analysis as well as visualization and presentation Using a hands on approach with real world examples this book shows you how to gather feedback measure the effectiveness of your security methods and make better decisions Everything in this book will have practical application for information security professionals Helps IT and security professionals understand and use data so they can thwart attacks and understand and visualize vulnerabilities in their networks Includes more than a dozen real world examples and hands on exercises that demonstrate how to analyze security data and intelligence and translate that information into visualizations that make plain how to prevent attacks Covers topics such as how to acquire and prepare security data use simple statistical methods to detect malware predict rogue behavior correlate security events and more Written by a team of well known experts in the field of security and data analysis Lock down your networks prevent hacks and thwart malware by improving visibility into the environment all through the power of data and Security Using Data Analysis Visualization and Dashboards

Social Network Analysis for Startups Maksim Tsvetovat,Alexander Kouznetsov,2011-09-27 Does your startup rely on social network analysis This concise guide provides a statistical framework to help you identify social processes hidden among the tons of data now available Social network analysis SNA is a discipline that predates Facebook and Twitter by 30 years Through expert SNA researchers you ll learn concepts and techniques for recognizing patterns in social media political

groups companies cultural trends and interpersonal networks You'll also learn how to use Python and other open source tools such as NetworkX NumPy and Matplotlib to gather analyze and visualize social data This book is the perfect marriage between social network theory and practice and a valuable source of insight and ideas Discover how internal social networks affect a company's ability to perform Follow terrorists and revolutionaries through the 1998 Khobar Towers bombing the 9/11 attacks and the Egyptian uprising Learn how a single special interest group can control the outcome of a national election Examine relationships between companies through investment networks and shared boards of directors Delve into the anatomy of cultural fads and trends offline phenomena often mediated by Twitter and Facebook

Network Science with Python David Knickerbocker, 2023-02-28 Discover the use of graph networks to develop a new approach to data science using theoretical and practical methods with this expert guide using Python printed in color Key Features Create networks using data points and information Learn to visualize and analyze networks to better understand communities Explore the use of network data in both supervised and unsupervised machine learning projects Purchase of the print or Kindle book includes a free PDF eBook Book Description Network analysis is often taught with tiny or toy data sets leaving you with a limited scope of learning and practical usage Network Science with Python helps you extract relevant data draw conclusions and build networks using industry standard practical data sets You'll begin by learning the basics of natural language processing network science and social network analysis then move on to programmatically building and analyzing networks You'll get a hands on understanding of the data source data extraction interaction with it and drawing insights from it This is a hands on book with theory grounding specific technical and mathematical details for future reference As you progress you'll learn to construct and clean networks conduct network analysis egocentric network analysis community detection and use network data with machine learning You'll also explore network analysis concepts from basics to an advanced level By the end of the book you'll be able to identify network data and use it to extract unconventional insights to comprehend the complex world around you What you will learn Explore NLP network science and social network analysis Apply the tech stack used for NLP network science and analysis Extract insights from NLP and network data Generate personalized NLP and network projects Authenticate and scrape tweets connections the web and data streams Discover the use of network data in machine learning projects Who this book is for Network Science with Python demonstrates how programming and social science can be combined to find new insights Data scientists NLP engineers software engineers social scientists and data science students will find this book useful An intermediate level of Python programming is a prerequisite Readers from both social science and programming backgrounds will find a new perspective and add a feather to their hat

Social Network Analysis dengan Python NetworkX dan Pajek: Dilengkapi AI/ML dan Implementasi serta Deployment ke Google Cloud Menggunakan Express.js dan Node.js Esther Irawati Setiawan, Joan Santoso, Mauridhi Hery Purnomo, 2024-09-03 Buku Social Network Analysis dengan Python NetworkX dan Pajek Dilengkapi AI ML dan Implementasi serta Deployment ke

Google Cloud Menggunakan Express js dan Node js memberikan panduan lengkap tentang Social Network Analysis SNA Buku ini mengulas tentang pengantar SNA hubungan jenis jaringan dan sejarah singkat SNA Selanjutnya buku ini menjelaskan teknik visualisasi jaringan dan format file Pajek Pembaca juga akan mempelajari metode pengukuran jaringan dan centrality serta struktur jaringan seperti komponen dyad triad dan clique Buku ini menyediakan panduan untuk menerapkan dan mendistribusikan layanan web SNA menggunakan Node js Express js dan Puppeteer di Google Cloud Selain itu buku ini mengulas teknik clustering seperti markov clustering dan minimum spanning tree dengan bantuan NetworkX dan VisJS Ditutup dengan studi kasus praktis menggunakan NetworkX buku ini cocok untuk pembaca yang ingin mendalami Social Network Analysis dengan pendekatan praktis dan teknologi modern

Data Science and Complex Networks Guido Caldarelli, Alessandro Chessa, 2016-11-10 This book provides a comprehensive yet short description of the basic concepts of Complex Network theory In contrast to other books the authors present these concepts through real case studies The application topics span from Foodwebs to the Internet the World Wide Web and the Social Networks passing through the International Trade Web and Financial time series The final part is devoted to definition and implementation of the most important network models The text provides information on the structure of the data and on the quality of available datasets Furthermore it provides a series of codes to allow immediate implementation of what is theoretically described in the book Readers already used to the concepts introduced in this book can learn the art of coding in Python by using the online material To this purpose the authors have set up a dedicated web site where readers can download and test the codes The whole project is aimed as a learning tool for scientists and practitioners enabling them to begin working instantly in the field of Complex Networks

Graph Data Modeling in Python Gary Hutson, Matt Jackson, 2023-06-30 Learn how to transform store evolve refactor model and create graph projections using the Python programming language Purchase of the print or Kindle book includes a free PDF eBook Key Features Transform relational data models into graph data model while learning key applications along the way Discover common challenges in graph modeling and analysis and learn how to overcome them Practice real world use cases of community detection knowledge graph and recommendation network Book Description Graphs have become increasingly integral to powering the products and services we use in our daily lives driving social media online shopping recommendations and even fraud detection With this book you ll see how a good graph data model can help enhance efficiency and unlock hidden insights through complex network analysis Graph Data Modeling in Python will guide you through designing implementing and harnessing a variety of graph data models using the popular open source Python libraries NetworkX and igraph Following practical use cases and examples you ll find out how to design optimal graph models capable of supporting a wide range of queries and features Moreover you ll seamlessly transition from traditional relational databases and tabular data to the dynamic world of graph data structures that allow powerful path based analyses As well as learning how to manage a persistent graph database using Neo4j you ll also get to grips with adapting your

network model to evolving data requirements By the end of this book you ll be able to transform tabular data into powerful graph data models In essence you ll build your knowledge from beginner to advanced level practitioner in no time What You Will Learn Design graph data models and master schema design best practices Work with the NetworkX and igraph frameworks in Python Store query ingest and refactor graph data Store your graphs in memory with Neo4j Build and work with projections and put them into practice Refactor schemas and learn tactics for managing an evolved graph data model Who this book is for If you are a data analyst or database developer interested in learning graph databases and how to curate and extract data from them this is the book for you It is also beneficial for data scientists and Python developers looking to get started with graph data modeling Although knowledge of Python is assumed no prior experience in graph data modeling theory and techniques is required

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