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Igraph Network Analysis Software

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Igraph Network Analysis Software:

Ultimate Performance Analysis Tool (uPATO) Frutuoso G. M. Silva, Quoc Trong Nguyen, Acácio F.P.P. Correia, Filipe Manuel Clemente, Fernando Manuel Lourenço Martins, 2018-08-30 This book introduces the ultimate performance analysis tool uPATO as a new software to compute social network metrics in the scope of team sports analysis The reader will identify the algorithms to test the general properties of the team the co dependencies and the centrality levels of players i e to evaluate the individual sub group and team performance analysis As uPATO tool implements the metrics for all options namely for unweighted graphs weighted graphs unweighted digraphs and weighted digraphs it is also useful for network analysis into other areas beyond team sports The book assists the reader to compute the metrics and to use it in different scenarios

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

Network Analysis and Visualization in R Alboukadel Kassambara, 2017-11-26 Social network analysis is used to investigate the inter relationship between entities Examples of network structures include social media networks friendship networks and collaboration networks This book provides a quick start guide to network analysis and visualization in R You ll learn how to Create static and interactive network graphs using modern R packages Change the layout of network graphs Detect important or central entities in a network graph Detect community or cluster in a network

Genome Data Analysis Ju Han Kim, 2019-04-30 This textbook describes recent advances in genomics and bioinformatics and provides numerous examples of genome data analysis that illustrate its relevance to real world problems and will improve the reader s bioinformatics skills Basic data preprocessing with normalization and filtering primary pattern analysis and machine learning algorithms using R and Python are demonstrated for gene expression microarrays genotyping microarrays next generation sequencing data epigenomic data and biological network and semantic analyses In addition detailed attention is devoted to integrative genomic data analysis including multivariate data projection gene metabolic

pathway mapping automated biomolecular annotation text mining of factual and literature databases and integrated management of biomolecular databases The textbook is primarily intended for life scientists medical scientists statisticians data processing researchers engineers and other beginners in bioinformatics who are experiencing difficulty in approaching the field However it will also serve as a simple guideline for experts unfamiliar with the new developing subfield of genomic analysis within bioinformatics

Complex Network Analysis in Python Dmitry Zinoviev, 2018-01-19 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

Computational Methods für die Sozial- und Geisteswissenschaften Jakob Jünger, Chantal Gärtner, 2023-07-14 Mit Computational Methods lassen sich digitale Welten wissenschaftlich erforschen und gestalten Das Open Access Lehrbuch vermittelt zun chst grundlegende Kompetenzen f r die automatisierte Erhebung und Aufbereitung von Daten und f r den Umgang mit Datenbanken Eine Einf hrung in die Programmiersprachen R und Python sowie in Versionsverwaltungen und Cloud Computing er ffnet Wege f r kreative Analyseans tze beim Umgang mit gro en und kleinen Datens tzen Schlie lich werden Szenarien in sozial und

geisteswissenschaftlichen Anwendungsfeldern durchgespielt Dazu zählen die automatisierte Datenerhebung über Programmierschnittstellen und Webscraping automatisierte Textanalysen Netzwerkanalysen maschinelles Lernen und Simulationsverfahren Neben einer konzeptionellen Einführung in die jeweiligen Themenfelder geht es vor allem darum in kurzen Tutorials selbst erste praktische Erfahrungen zu sammeln sowie weiterführende Möglichkeiten aber auch Limitationen von Computational Methods kennenzulernen

Graph Theoretic Approaches for Analyzing Large-Scale Social Networks Meghanathan, Natarajan, 2017-07-13 Social network analysis has created novel opportunities within the field of data science The complexity of these networks requires new techniques to optimize the extraction of useful information Graph Theoretic Approaches for Analyzing Large Scale Social Networks is a pivotal reference source for the latest academic research on emerging algorithms and methods for the analysis of social networks Highlighting a range of pertinent topics such as influence maximization probabilistic exploration and distributed memory this book is ideally designed for academics graduate students professionals and practitioners actively involved in the field of data science

Systems Biology Modelling and Analysis Elisabetta De Maria, 2022-12-08 Systems Biology Modelling and Analysis Describes important modelling and computational methods for systems biology research to enable practitioners to select and use the most suitable technique Systems Biology Modelling and Analysis provides an overview of state of the art techniques and introduces related tools and practices to formalize models and automate reasoning for systems biology The authors present and compare the main formal methods used in systems biology for modelling biological networks including discussion of their advantages drawbacks and main applications Each chapter includes an intuitive presentation of the specific formalism a brief history of the formalism and of its applications in systems biology a formal description of the formalism and its variants at least one realistic case study some applications of formal techniques to validate and make deep analysis of models encoded with the formalism and a discussion on the kind of biological systems for which the formalism is suited along with concrete ideas on its possible evolution Edited by a highly qualified expert with significant experience in the field some of the methods and techniques covered in Systems Biology Modelling and Analysis include Petri nets an important tool for studying different aspects of biological systems ranging from simple signaling pathways to metabolic networks and beyond Pathway Logic a formal rule based system and interactive viewer for developing executable models of cellular processes Boolean networks a mathematical model which has been widely used for decades in the context of biological regulation networks Answer Set Programming ASP which has proven to be a strong logic programming paradigm to deal with the inherent complexity of biological models For systems biologists biochemists bioinformaticians molecular biologists pharmacologists and computer scientists Systems Biology Modelling and Analysis is a comprehensive all in one resource to understand and harness the field's current models and techniques while also preparing for their potential developments in coming years with the help of the author's expert insight

Seascape Ecology Simon J. Pittman, 2017-12-18 Seascape Ecology provides a comprehensive

look at the state of the science in the application of landscape ecology to the seas and provides guidance for future research priorities The first book devoted exclusively to this rapidly emerging and increasingly important discipline it is comprised of contributions from researchers at the forefront of seascape ecology working around the world It presents the principles concepts methodology and techniques informing seascape ecology and reports on the latest developments in the application of the approach to marine ecology and management A growing number of marine scientists geographers and marine managers are asking questions about the marine environment that are best addressed with a landscape ecology perspective Seascape Ecology represents the first serious effort to fill the gap in the literature on the subject Key topics and features of interest include The origins and history of seascape ecology and various approaches to spatial patterning in the sea The links between seascape patterns and ecological processes with special attention paid to the roles played by seagrasses and salt marshes and animal movements through seascapes Human influences on seascape ecology includes models for assessing human seascape interactions A special epilogue in which three eminent scientists who have been instrumental in shaping the course of landscape ecology offer their insights and perspectives Seascape Ecology is a must read for researchers and professionals in an array of disciplines including marine biology environmental science geosciences marine and coastal management and environmental protection It is also an excellent supplementary text for university courses in those fields

Social Network Analysis David Knoke, Song Yang, 2019-12-02 David Knoke and Song Yang's Social Network Analysis Third Edition provides a concise introduction to the concepts and tools of social network analysis The authors convey key material while at the same time minimizing technical complexities The examples are simple sets of 5 or 6 entities such as individuals positions in a hierarchy political offices and nation states and the relations between them include friendship communication supervision donations and trade The new edition reflects developments and changes in practice over the past decade The authors also describe important recent developments in network analysis especially in the fifth chapter Exponential random graph models ERGMs are a prime example when the second edition was published P models were the recommended approach for this but they have been replaced by ERGMs Finally throughout the volume the authors comment on the challenges and opportunities offered by internet and social media data Social Networks: Analysis and Case Studies Şule Gündüz-Öğüdücü, A. Şima Etaner-Uyar, 2014-07-11 The present volume provides a comprehensive resource for practitioners and researchers alike both those new to the field as well as those who already have some experience The work covers Social Network Analysis theory and methods with a focus on current applications and case studies applied in various domains such as mobile networks security machine learning and health With the increasing popularity of Web 2.0 social media has become a widely used communication platform Parallel to this development Social Network Analysis gained in importance as a research field while opening up many opportunities in different application domains Forming a bridge between theory and applications makes this work appealing to both academics and practitioners as well as graduate students

Handbuch Netzwerkforschung Christian Stegbauer, Roger Häußling, 2025-08-02 Das Buch bietet einen weitreichenden Überblick über die Forschungs- und Theoriebereiche in der Netzwerkforschung. Neben einem einführenden Teil zur Geschichte der Netzwerkforschung zum Selbstverständnis und zu den wichtigsten theoretischen Grundlagen werden Methoden der Netzwerkforschung behandelt. Das wachsende Paradigma wird in immer mehr wissenschaftlichen und anwendungsorientierten Disziplinen als erkenntnisleitendes Prinzip und als Methode eingesetzt. Ein Überblick über viele dieser Felder bildet einen weiteren Schwerpunkt. Das Handbuch wendet sich damit sowohl an Neueinsteiger in die Thematik als auch an Experten. Am Buch sind die wesentlichen Autorinnen und Autoren der deutschsprachigen Netzwerkforschung beteiligt. Das vorliegende Handbuch erscheint in zweiter, bearbeiteter, aktualisierter und erweiterter Auflage. *Multilayer Networks: Analysis and Visualization* Manlio De Domenico, 2022-03-31 The adoption of multilayer analysis techniques is rapidly expanding across all areas of knowledge from social sciences to the first facing the complexity of such structures decades ago to computer science from biology to engineering. However, until now no book has dealt exclusively with the analysis and visualization of multilayer networks. *Multilayer Networks: Analysis and Visualization* provides a guided introduction to one of the most complete computational frameworks named muxViz with introductory information about the underlying theoretical aspects and a focus on the analytical side. Dozens of analytical scripts and examples to use the muxViz library in practice by means of the Graphical User Interface or by means of the R scripting language are provided. In addition to researchers in the field of network science as well as practitioners interested in network visualization and analysis, this book will appeal to researchers without strong technical or computer science background who want to learn how to use muxViz software such as researchers from humanities, social science and biology audiences which are targeted by case studies included in the book. Other interdisciplinary audiences include computer science, physics, neuroscience, genetics, urban transport and engineering, digital humanities, social and computational social science. Readers will learn how to use in a very practical way, i.e. without focusing on theoretical aspects, the algorithms developed by the community and implemented in the free and open source software muxViz. The data used in the book is available on a dedicated open and free site.

Information and Communication Technologies Germania Rodriguez Morales, Efraín R. Fonseca C., Juan Pablo Salgado, Pablo Pérez-Gosende, Marcos Orellana Cordero, Santiago Berrezueta, 2020-11-12 This book constitutes refereed proceedings of the 8th Conference on Information and Communication Technologies of Ecuador TICEC 2020 held in November 2020. Due to the COVID-19 pandemic the conference was held online. The 36 full and 7 short papers were carefully reviewed and selected from 117 qualified submissions. The papers are organized according to the following topical sections: biomedical sensors and wearables, systems, data science, ICT's applications, industry 4.0, smart cities, software development, technology and environment. **An Introduction to Computational Systems Biology** Karthik Raman, 2021-05-30 This book delivers a comprehensive and insightful account of applying mathematical modelling approaches to very large biological

systems and networks a fundamental aspect of computational systems biology The book covers key modelling paradigms in detail while at the same time retaining a simplicity that will appeal to those from less quantitative fields Key Features A hands on approach to modelling Covers a broad spectrum of modelling from static networks to dynamic models and constraint based models Thoughtful exercises to test and enable understanding of concepts State of the art chapters on exciting new developments like community modelling and biological circuit design Emphasis on coding and software tools for systems biology Companion website featuring lecture videos figure slides codes supplementary exercises further reading and appendices <https://ramanlab.github.io/SysBioBook> An Introduction to Computational Systems Biology Systems Level Modelling of Cellular Networks is highly multi disciplinary and will appeal to biologists engineers computer scientists mathematicians and others

Modern Graph Theory Algorithms with Python Colleen M. Farrelly, Franck Kalala Mutombo, 2024-06-07 Solve challenging and computationally intensive analytics problems by leveraging network science and graph algorithms Key Features Learn how to wrangle different types of datasets and analytics problems into networks Leverage graph theoretic algorithms to analyze data efficiently Apply the skills you gain to solve a variety of problems through case studies in Python Purchase of the print or Kindle book includes a free PDF eBook Book Description We are living in the age of big data and scalable solutions are a necessity Network science leverages the power of graph theory and flexible data structures to analyze big data at scale This book guides you through the basics of network science showing you how to wrangle different types of data such as spatial and time series data into network structures You ll be introduced to core tools from network science to analyze real world case studies in Python As you progress you ll find out how to predict fake news spread track pricing patterns in local markets forecast stock market crashes and stop an epidemic spread Later you ll learn about advanced techniques in network science such as creating and querying graph databases classifying datasets with graph neural networks GNNs and mining educational pathways for insights into student success Case studies in the book will provide you with end to end examples of implementing what you learn in each chapter By the end of this book you ll be well equipped to wrangle your own datasets into network science problems and scale solutions with Python What you will learn Transform different data types such as spatial data into network formats Explore common network science tools in Python Discover how geometry impacts spreading processes on networks Implement machine learning algorithms on network data features Build and query graph databases Explore new frontiers in network science such as quantum algorithms Who this book is for If you re a researcher or industry professional analyzing data and are curious about network science approaches to data this book is for you To get the most out of the book basic knowledge of Python including pandas and NumPy as well as some experience working with datasets is required This book is also ideal for anyone interested in network science and learning how graph algorithms are used to solve science and engineering problems R programmers may also find this book helpful as many algorithms also have R implementations

Big Data Processing Using Spark in Cloud Mamta

Mittal,Valentina E. Balas,Lalit Mohan Goyal,Raghvendra Kumar,2018-06-16 The book describes the emergence of big data technologies and the role of Spark in the entire big data stack It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark The book mainly focuses on the in depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature and solves it with lazy evaluation cacheable and type inference It also addresses advanced topics in Spark starting with the basics of Scala and the core Spark framework and exploring Spark data frames machine learning using Mllib graph analytics using Graph X and real time processing with Apache Kafka AWS Kinesis and Azure Event Hub It then goes on to investigate Spark using PySpark and R Focusing on the current big data stack the book examines the interaction with current big data tools with Spark being the core processing layer for all types of data The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud In addition to industry professionals it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments **The Routledge**

Handbook of Research Methods for Social-Ecological Systems Reinette Biggs,Alta de Vos,Rika Preiser,Hayley Clements,Kristine Maciejewski,Maja Schlüter,2021-07-29 The Routledge Handbook of Research Methods for Social Ecological Systems provides a synthetic guide to the range of methods that can be employed in social ecological systems SES research The book is primarily targeted at graduate students lecturers and researchers working on SES and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation and provides practical examples of the application of the methods In addition the book contains a conceptual and practical introduction to SES research a discussion of key gaps and frontiers in SES research methods and a glossary of key terms in SES research Contributions from 97 different authors situated at SES research hubs in 16 countries around the world including South Africa Sweden Germany and Australia bring a wealth of expertise and experience to this book The first book to provide a guide and introduction specifically focused on methods for studying SES this book will be of great interest to students and scholars of sustainability science environmental management global environmental change studies and environmental governance The book will also be of interest to upper level undergraduates and professionals working at the science policy interface in the environmental arena Computational Network Analysis

with R Matthias Dehmer,Yongtang Shi,Frank Emmert-Streib,2016-08-09 This new title in the well established Quantitative Network Biology series includes innovative and existing methods for analyzing network data in such areas as network biology and chemoinformatics With its easy to follow introduction to the theoretical background and application oriented chapters the book demonstrates that R is a powerful language for statistically analyzing networks and for solving such large scale phenomena as network sampling and bootstrapping Written by editors and authors with an excellent track record in the field

this is the ultimate reference for R in Network Analysis *Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work* Management Association, Information Resources, 2020-10-30 As the use of remote work has recently skyrocketed digital transformation within the workplace has gone under a microscope and it has become abundantly clear that the incorporation of new technologies in the workplace is the future of business These technologies keep businesses up to date with their capabilities to perform remote work and make processes more efficient and effective than ever before In understanding digital transformation in the workplace there needs to be advanced research on technology organizational change and the impacts of remote work on the business the employees and day to day work practices This advancement to a digital work culture and remote work is rapidly undergoing major advancements and research is needed to keep up with both the positives and negatives to this transformation The *Research Anthology on Digital Transformation Organizational Change and the Impact of Remote Work* contains hand selected previously published research that explores the impacts of remote work on business workplaces while also focusing on digital transformation for improving the efficiency of work While highlighting work technologies digital practices business management organizational change and the effects of remote work on employees this book is an all encompassing research work intended for managers business owners IT specialists executives practitioners stakeholders researchers academicians and students interested in how digital transformation and remote work is affecting workplaces

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