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Igraph Network Analysis Software

Shao Li

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 **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

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

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 generalizedsimilarity and works on all major modern operating systems   **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   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   **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 z hlen die automatisierte Datenerhebung ber Programmierschnittstellen und Webscraping automatisierte Textanalysen Netzwerkanalysen maschinelles Lernen und Simulationsverfahren Neben einer konzeptionellen Einf hrung in die jeweiligen Themenfelder geht es vor allem darum in kurzen Tutorials selbst erste praktische Erfahrungen zu sammeln sowie weiterf hrende M glichkeiten aber auch Limitationen von Computational Methods kennenzulernen   **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   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 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   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 **Network Pharmacology** Shao Li,2021-09-29 This book introduces network pharmacology as an emerging frontier subject of systematic drug research in the era of artificial intelligence and big data Network Pharmacology is an original subject of fusion system biology bioinformatics network science and other related disciplines It emphasizes on starting from the overall perspective of the system level and biological networks the analysis of the laws of molecular association between drugs and their treatment objects reveals the systematic pharmacological mechanisms of drugs and guides the research and development of new drugs and clinical diagnosis and treatment After it was proposed network pharmacology has been paid attention by researchers and it has been rapidly developed and widely used In order to systematically reveal the biological basis of diagnosis and treatment in traditional Chinese medicine and modern medicine we proposed a new concept of network target for the first time which has become the core theory of network pharmacology The core principle of a network target is to construct a biological network that can be used to decipher complex diseases The network is then used as the therapeutic target to which multicomponent remedies are applied This book mainly includes four parts 1 The concept and theory of network pharmacology 2 Common analysis methods databases and software in network pharmacological research 3 Typical cases of traditional Chinese medicine modernization and modern drug research based on network pharmacology 4 Network pharmacology practice process based on drugs and diseases **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   **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   **Handbook of Social Network Technologies and Applications** Borko Furht,2010-11-04 Social networking is a concept that has existed for a long time however with the explosion of the Internet social networking has become a tool for people to connect and communicate in ways that were impossible in the past The recent development of Web 2 0 has provided many new applications such as Myspace Facebook and LinkedIn The purpose of Handbook of Social Network Technologies and Applications is to provide comprehensive guidelines on the current and future trends in social network technologies and applications in the field of Web based Social Networks This handbook includes contributions from world experts in the field of social networks from both academia and private industry A number of crucial topics are covered including Web and software technologies and communication technologies for social networks Web mining techniques visualization techniques intelligent social networks Semantic Web and many other topics are covered Standards for social networks case studies and a variety of applications are covered as well   **Mastering Data Analysis with R** Gergely Daroczi,2015-09-30 Gain sharp insights into your data and solve real world data science problems with R from data munging to modeling and visualization About This Book Handle your data with precision and care for optimal business intelligence Restructure and transform your data to inform decision making

Packed with practical advice and tips to help you get to grips with data mining Who This Book Is For If you are a data scientist or R developer who wants to explore and optimize your use of R s advanced features and tools this is the book for you A basic knowledge of R is required along with an understanding of database logic What You Will Learn Connect to and load data from R s range of powerful databases Successfully fetch and parse structured and unstructured data Transform and restructure your data with efficient R packages Define and build complex statistical models with glm Develop and train machine learning algorithms Visualize social networks and graph data Deploy supervised and unsupervised classification algorithms Discover how to visualize spatial data with R In Detail R is an essential language for sharp and successful data analysis Its numerous features and ease of use make it a powerful way of mining managing and interpreting large sets of data In a world where understanding big data has become key by mastering R you will be able to deal with your data effectively and efficiently This book will give you the guidance you need to build and develop your knowledge and expertise Bridging the gap between theory and practice this book will help you to understand and use data for a competitive advantage Beginning with taking you through essential data mining and management tasks such as munging fetching cleaning and restructuring the book then explores different model designs and the core components of effective analysis You will then discover how to optimize your use of machine learning algorithms for classification and recommendation systems beside the traditional and more recent statistical methods Style and approach Covering the essential tasks and skills within data science Mastering Data Analysis provides you with solutions to the challenges of data science Each section gives you a theoretical overview before demonstrating how to put the theory to work with real world use cases and hands on examples Air Route Networks Through Complex Networks Theory Jose M. Sallan,Oriol Lordan,2019-11-06 Air Route Networks through Complex Networks Theory connects theory research with network connectivity analysis providing practitioners with the tools they need to develop more efficient resilient and profitable air route networks The book helps airline route planners and executives create more robust route networks that are less vulnerable to disruptions such as node isolation The book further explores errors and attacks in complex networks strategies for detecting critical nodes and cascading failure models to assess and maximize robustness The book explains how to measure air route network connectivity with complex network representations Air transport is among the most dynamic and toughest competition industries in today s global economy The quality of air route network design is a key strategic factor in an airline s viability These robust networks provide for more stable and secure carrier operations vs those based simply on existing supply and demand volumes Node specific and network specific representations are covered along with in depth coverage of connectivity in special and temporal networks These collective tools serve as a guide for practitioners seeking to apply complex network theory to the airline industry Presents complex networks theory research results applied to airline transportation networks Examines airline network robustness in the face of disruptions providing strategies for detecting critical nodes of air transport networks Provides

historical perspective on the economic political technical and geographical constraints that influence airline route portfolios Connects data from valuable tools such as navpoints area control centers ACC and flight information centers with air network modeling Studies spreading related phenomena such as rumors and disease contagions and how these affect the airline industry **Mining Complex Networks** Bogumil Kaminski,Pawel Prałat,Francois Theberge,2021-12-14 This book concentrates on mining networks a subfield within data science Data science uses scientific and computational tools to extract valuable knowledge from large data sets Once data is processed and cleaned it is analyzed and presented to support decision making processes Data science and machine learning tools have become widely used in companies of all sizes Networks are often large scale decentralized and evolve dynamically over time Mining complex networks aim to understand the principles governing the organization and the behavior of such networks is crucial for a broad range of fields of study Here are a few selected typical applications of mining networks Community detection which users on some social media platforms are close friends Link prediction who is likely to connect to whom on such platforms Node attribute prediction what advertisement should be shown to a given user of a particular platform to match their interests Influential node detection which social media users would be the best ambassadors of a specific product This textbook is suitable for an upper year undergraduate course or a graduate course in programs such as data science mathematics computer science business engineering physics statistics and social science This book can be successfully used by all enthusiasts of data science at various levels of sophistication to expand their knowledge or consider changing their career path Jupiter notebooks in Python and Julia accompany the book and can be accessed on https www ryerson ca mining complex networks These not only contain all the experiments presented in the book but also include additional material Bogumi Kami ski is the Chairman of the Scientific Council for the Discipline of Economics and Finance at SGH Warsaw School of Economics He is also an Adjunct Professor at the Data Science Laboratory at Ryerson University Bogumi is an expert in applications of mathematical modeling to solving complex real life problems He is also a substantial open source contributor to the development of the Julia language and its package ecosystem Pawe Pra at is a Professor of Mathematics in Ryerson University whose main research interests are in random graph theory especially in modeling and mining complex networks He is the Director of Fields CQAM Lab on Computational Methods in Industrial Mathematics in The Fields Institute for Research in Mathematical Sciences and has pursued collaborations with various industry partners as well as the Government of Canada He has written over 170 papers and three books with 130 plus collaborators Fran ois Th berge holds a B Sc degree in applied mathematics from the University of Ottawa a M Sc in telecommunications from INRS and a PhD in electrical engineering from McGill University He has been employed by the Government of Canada since 1996 where he was involved in the creation of the data science team as well as the research group now known as the Tutte Institute for Mathematics and Computing He also holds an adjunct professorial position in the Department of Mathematics and Statistics at the University of Ottawa His current interests

include relational data mining and deep learning **Handbuch Netzwerkforschung** Christian Stegbauer,Roger Häußling,2025-08-02 Das Buch bietet einen weitreichenden berblick ber Forschungs und Theoriebereiche in der Netzwerkforschung Neben einem einf hrenden Teil zu Geschichte der Netzwerkforschung zum Selbstverst ndnis 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 berblick ber 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 berarbeiteter aktualisierter und erweiterter Auflage

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