

# PorthoMCL: Parallel orthology prediction using MCL for the realm of massive genome availability

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## Abstract

**Background:** Finding orthologous genes among multiple sequenced genomes is a primary step in comparative genomics studies. With the number of sequenced genomes increasing exponentially, comparative genomics becomes more powerful than ever for genomic analysis. However, the very large number of genomes in need of analysis makes conventional orthology prediction methods incapable of this task. Thus, an ultrafast tool is urgently needed.

**Results:** Here, we present PorthoMCL, a fast tool for finding orthologous genes among a very large number of genomes. PorthoMCL can be run on a single machine or in parallel on computer clusters. We have demonstrated PorthoMCL's capability by identifying orthologs in 2,758 prokaryotic genomes. The results are available for download at: <http://ehsan.ncu.go/porthomcl/>.

**Conclusions:** PorthoMCL is a fast and easy to run tool for identifying orthology among any number of genomes with minimal requirements. PorthoMCL will facilitate comparative genomics analysis with increasing number of available genomes thanks to the rapidly evolving sequencing technologies.

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**Handbook of Incineration of Hazardous Wastes (1991)** William S. Rickman, 2017-11-22 Hazardous waste incineration technologies have been developed to meet the needs of a rapidly growing market that has been created by the proliferation of hazardous waste in modern society These hazardous wastes are continuously produced as by products of many industries Vast stockpiles of hazardous or toxic wastes are currently residing in insecure landfills thus imperiling our drinking water supplies This handbook is written with the user in mind An in depth review of regulatory and technical requirements is presented with later sections regarding permitting and operation of incineration facilities A comprehensive description of established and emerging incinerator technologies is included along with a number of alternatives One of the key sections involves a detailed procedure for choosing an incinerator for a specific job including engineering calculations and going through the bid process Rationale for whether to buy or lease incineration equipment is included as well as details on trial burns permitting strategies and startup and operation of incinerators A number of typical case histories of incinerators are presented for such diverse applications as cleaning up individual sites with transportable units stationary facilities for in house wastes and incinerator ships Appendices provide a convenient reference to physical properties combustion parameters detailed equipment performance nomographs and several sample permits including RCRA TSCA and local permit applications In summary this handbook provides a single reference point for the potential user of an incinerator as well as a valuable source of design data for incinerator vendors consultants and regulators *ACS Monograph* American Chemical Society, 1923

**Turning Administrative Systems Into Information Systems**, 2000

**Introduction to Survey Sampling** Graham Kalton, 2020-04-01 Sample design is key to all surveys fundamental to data collection and to the analysis and interpretation of the data Introduction to Survey Sampling Second Edition provides an authoritative and accessible source on sample design strategies and procedures that is a required reading for anyone collecting or analyzing survey data Graham Kalton discusses different types of probability samples stratification pre and post clustering dual frames replicates response base weights design effects and effective sample size It is a thorough revision and update of the first edition published more than 35 years ago Although the concepts of probability sampling are largely the same there have been important developments in the application of these concepts as research questions have increasingly spanned multiple disciplines computers have become central to data collection as well as data analysis and cell phones have become ubiquitous but response rates have fallen and public willingness to engage in survey research has waned While most of the volume focuses on probability samples there is also a chapter on nonprobability samples which are becoming increasingly important with the rise of social media and the world wide web

**Righteous Propagation** Michele Mitchell, 2005-10-12 Between 1877 and 1930 years rife with tensions over citizenship suffrage immigration and the Negro problem African American activists promoted an array of strategies for progress and power built around racial destiny the idea that black

Americans formed a collective whose future existence would be determined by the actions of its members In *Righteous Propagation* Michele Mitchell examines the reproductive implications of racial destiny demonstrating how it forcefully linked particular visions of gender conduct and sexuality to collective well being Mitchell argues that while African Americans did not agree on specific ways to bolster their collective prospects ideas about racial destiny and progress generally shifted from outward looking remedies such as emigration to inward focused debates about intraracial relationships thereby politicizing the most private aspects of black life and spurring race activists to calcify gender roles monitor intraracial sexual practices and promote moral purity Examining the ideas of well known elite reformers such as Mary Church Terrell and W E B DuBois as well as unknown members of the working and aspiring classes such as James Dubose and Josie Briggs Hall Mitchell reinterprets black protest and politics and recasts the way we think about black sexuality and progress after Reconstruction

*Brookings Papers on Economic Activity: Fall 2021* Janice Eberly, James H. Stock, 2022-06-07 The Brookings Papers on Economic Activity BPEA is a semi annual academic conference and journal that pairs rigorous research with real time policy analysis to address the most urgent economic challenges of the day Working drafts of the papers are presented at the conference typically held twice each year The final papers and discussant remarks from each conference are subsequently published in the journal several months later POPP VONA MARIN and CHEN on The Employment Impact of a Green Fiscal Push Evidence from the American Recovery and Reinvestment Act BUCKMAN CHOI DALY and SEITELMAN on The Economic Gains from Equity CHERRY JIANG MATVOS PISKORSKI and SERU on Government and Private Household Debt Relief during COVID 19 RENNERT PREST PIZER NEWELL ANTHOFF KINGDON RENNELS COOKE RAFTERY EV KOV and ERRICKSON on The Social Cost of Carbon Advances in Long Term Probabilistic Projections of Population GDP Emissions and Discount Rates REIS on Losing the Inflation Anchor AUTOR DORN and HANSON on On the Persistence of the China Shock

**Abstracts of Papers - American Chemical Society** American Chemical Society. Meeting, American Chemical Society, 1986 **Environmental Sampling for Trace Analysis** Bernd Markert, 2008-09-26 Often too little attention is given to the sampling before and after actual instrumental measurement This leads to errors despite increasingly sensitive analytical systems This is one of the first books to pay proper attention to representative sampling It offers an overview of the most common techniques used today for taking environmental samples The techniques are clearly presented yield accurate and reproducible results and can be used to sample air water soils and sediments plants and animals A comprehensive handbook this volume provides an excellent starting point for researchers in the rapidly expanding field of environmental analysis *Health, United States*, 2011 [Radioactive Waste Management](#), 1981 *Additives in Polymers* Jan C. J. Bart, 2005-04-08 This industrially relevant resource covers all established and emerging analytical methods for the deformation of polymeric materials with emphasis on the non polymeric components Each technique is evaluated on its technical and industrial merits Emphasis is on understanding principles and characteristics and industrial applicability

Extensively illustrated throughout with over 200 figures 400 tables and 3 000 references      *Public Affairs and Administration: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2015-05-31 Effective administration of government and governmental organizations is a crucial part of achieving success in those organizations To develop and implement best practices policymakers and leaders must first understand the fundamental tenants and recent advances in public administration *Public Affairs and Administration Concepts Methodologies Tools and Applications* explores the concept of governmental management public policy and politics at all levels of organizational governance With chapters on topics ranging from privacy and surveillance to the impact of new media on political participation this multi volume reference work is an important resource for policymakers government officials and academicians and students of political science      *Smartphones for Chemical Analysis: From Proof-of-concept to Analytical Applications* ,2023-04-21 Smartphones for Chemical Analysis From Proof of Concept to Analytical Applications Volume 101 in the Comprehensive Analytical Chemistry series highlights new advances in this broadening field with chapters that cover Smartphone based assay benchmarking using traditional instrumental analysis Smartphone based water analysis Sample preparation in smartphone based analysis Current status and challenges Application of smartphone based analysis in the medical field Smartphone based biosensors in the food analysis field Bioreceptors for smartphone detection Smartphone anatomy Features used for ubiquitous sensing and much more Additional chapters cover End user integration for at home analysis Hyphenating paper based biosensors with smartphones Smartphone based Fluorescent and chemiluminescent sensing Smartphones for portable surface enhanced raman spectroscopy Towards a universal applicable photonics approach and sustainable spectral data Integrating blockchain and image analyses on smartphones to create a secure food export pipeline Smartphone based electrochemical bio sensors state of the art and perspective Micro and nanoplastic detection through a point of site platform platform and Benchmarking using ambient mass spectrometry Provides up to date expert opinion on this emerging topic Covers a wider range of the chemical analysis field from food to medical analysis Highlights current challenges with solutions proposed      *Interim Method for the Determination of Asbestos in Bulk Insulation Samples* ,1983      **Total Survey Error in Practice** Paul P. Biemer,Edith D. de Leeuw,Stephanie Eckman,Brad Edwards,Frauke Kreuter,Lars E. Lyberg,N. Clyde Tucker,Brady T. West,2017-02-06 Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process

data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary material for a graduate level course in survey research methods

**The Federal Statistical System: Its Vulnerability Matters More Than You Think** Kenneth Prewitt, 2010-09 How do federal statistics strengthen our nation's science as well as its policy From demographers requiring vital statistics to economists relying on national accounts from political scientists using voting data to sociologists requiring race ethnicity statistics from public health researchers needing epidemiology data to those working on the history of the United States and drawing on statistical records the need for official statistics is great And yet it is not widely recognized that federal statistics provide a vital contribution to the nation's scientific infrastructure as well as serving as an information provider to the policy process What is the role of the federal statistical system in our scientific knowledge of American society Would the social knowledge relevant to public policies have reached current levels of maturity in the absence of public statistics Except by the scientific community that actually uses them federal statistical programs are typically not thought of in scientific terms but as adjuncts to important government functions In this latest volume of The ANNALS leading academics along with key federal officials including the president's science advisor the chief statistician of the U S the director of the Office of Management and Budget OMB the presidents of the National Academies and the director of the Census Bureau address the argument that the statistics that the federal statistical system produces should be understood as constituting a scientific infrastructure for the empirical social sciences Further they see the current federal statistical system as the best hope for bringing strong science to bear on new data

sources and the best place to navigate unforeseen challenges in preserving the independence of statistical information from political interference This unique collection of essays conceptualizes the U S Federal Statistical System its role reach achievements and vulnerabilities The authors explore challenging issues such as privacy and confidentiality protections data quality and maintaining representativeness Their intriguing discussion also takes up the move from a census and survey data system to a system that increasingly incorporates administrative and digital data the nation s scientific leadership s role as advocates for statistical programs the problems with the scientific methodology sample surveys on which these statistics rest and strengthening the network of statistical agencies and programs Recommendations are offered ranging from how to better organize the system how to protect statistics from political interference how to strengthen their role in science and in the policy process and how to prepare for the challenges of a new information order If federal statistics are the knowledge base from which policy problems and solutions emerge it is imperative that we pay attention to the lessons they offer Never before has this topic received this level of attention from such an array of contributors A must read for all social scientists and policy makers

**Journal of Industrial and Engineering Chemistry** ,1922      **The Journal of Industrial and Engineering Chemistry** ,1919      *Exploring the U.S. Census* Frank Donnelly,2019-10-07 The United States census provides researchers students and the public with some of the richest and broadest information available about the American people Exploring the U S Census by Frank Donnelly gives social science students and researchers alike the tools to understand extract process and analyze data from the decennial census the American Community Survey and other data collected by the U S Census Bureau More than just a data collection exercise performed every ten years the census is a series of datasets updated on an ongoing basis With all that data comes opportunities and challenges opportunities to teach students the value of census data for studying communities and answering research questions and the challenges of navigating and comprehending such a massive data source and transforming it into usable information that students and researchers can analyze with basic skills and software Just as important as showing what the census can tell social researchers is showing how to ask good questions of census data Exploring the U S Census provides a thorough background on the data collection methods structures and potential pitfalls of the census for unfamiliar researchers collecting information previously available only in widely disparate sources into one handy guide Hands on applied exercises at the end of the chapters help readers dive into the data The first chapter of the book places the census into context discussing the history and the role of the census in society as well as in the larger universe of government open and big data The book then moves onto the essentials of the data structure including the variety of sources and searching mechanisms geography from nation down to zip code and the fundamental subject categories social economic and geographic that are used for summarizing data in all of the various datasets The next section delves into the individual datasets discussing the purpose and structure of each with separate chapters devoted to the decennial census ACS Population Estimates Program and business datasets A final chapter for this

section pulls everything together with a focus on writing and presenting your research on the data The final section covers advanced topics and applications including mapping geographic information systems creating new variables and measures from census data historical census data and microdata Along the way the author shows how best to analyze census data with open source software and tools such as QGIS geographic information system LibreOffice Calc and the DB Browser for SQLite Readers can freely evaluate the data on their own computers in keeping with the free and open data provided by the Census Bureau By placing the census in the context of the open data movement this text makes the history and practice of the census relevant so readers can understand what a crucial resource the United States census is for research and knowledge

*Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis* Rajeev Jain, Abuzar Kabir, 2024-10-26 *Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis* provides a comprehensive overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation The book discusses not only eco friendly GAM s but also methods which provide high sample throughput and cost effective analysis and are therefore of immense use in resource limited laboratories of developing countries This is a comprehensive source of literature for analytical scientists in this developing area of sustainable and affordable analytical methods Provides a comprehensive overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation Presents scientific data for synthesis and application of green solvents e g DES and ILs and adsorbents e g FPSE membranes Offers method development optimization and validation strategies for GAMs



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