

# 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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**ACS Monograph** American Chemical Society, 1923

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**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

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**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

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