

## Archaeology

John D. Wilcock

### Non-statistical applications of the computer in archaeology

This paper describes an overall computer-aided system for the use of archaeologists employing plain-language keywords to control information retrieval, graphics, and ancillary techniques such as routine reduction of instrument survey readings, objective classification of profiles, and statistical studies of the data.

The majority of papers at this conference have dealt with statistical applications in archaeology, where mathematical techniques are employed in the empirical study of archaeological data as phenomena with observable regularities. Inevitably, the computer has been pressed into the service of mathematicians and statisticians with an interest in archaeology. But it is a fact that the majority of present-day computer applications in business and industry are essentially non-statistical, and many are even non-numerical. It would therefore seem profitable to explore archaeology for non-statistical and non-numerical problems to which computer science may be applied. This seems likely to be an expanding field.

This paper describes applications of the computer in information retrieval, instrument surveys, graphics and the objective classification of artifacts by pattern recognition techniques.

#### INFORMATION RETRIEVAL

It is becoming very common in these days of the high-speed digital computer for large files of information to be stored on computer media for subsequent analysis. A file of data covering a well-defined topic is called a *data base*, which may then be used as input for an *Information Retrieval exercise*; information relevant to a particular query or set of queries is located and retrieved. The results are usually printed by computer and are then directly available for reference or reproduction by offset-litho printing.

Ideally, records should be made in plain language with as little contraction, stylization, or coding as possible. To have to refer to a code book every time a request is codified or results have to be interpreted is annoying and time-consuming. A request may be formulated from a set of plain-language descriptive terms (called *descriptors*) and it is usual to combine these descriptors by logical operators, for example, logical AND ( $\cdot$ ), OR ( $+$ ), NOT ( $-$ ), ANY  $n$  OF ( $n/(t+t+t, \text{ and so on})$ ), where  $n$  is an integer less than the number of terms  $t$  combined by logical operators OR ( $+$ ).

In order to set up a system using information retrieval, cataloguing terms must be chosen and a thesaurus of words compiled so that the terms and the words embrace all facets of the information to be stored. The terms and the words may be expanded and amended once the system is in operation, but a determined attempt must be made to compile a comprehensive list of

This is only the first page of the paper - a full version of the paper is available on request

# Mathematics And Computers In Archaeology

**RS Peters**



## **Mathematics And Computers In Archaeology:**

**Mathematics and Computers in Archaeology** J. E. Doran, F. R. Hodson, 1975 This book is for students and practitioners of archaeology It offers an introductory survey of all the applications of mathematical and statistical techniques to their work These applications are increasingly concerned with computerized data classification and quantification and their effect is to reduce the level of uncertainty in the interpretation of the evidence that time and chance have left Any archaeologist wanting to find out what these new methods have to offer has hitherto been forced to search for information in the specialist handbooks conference proceedings and review articles of his own and very often of other disciplines This book brings the information conveniently together so far as it pertains to archaeology and permits an assessment of its relevance and quality Those who have been daunted by the specialist knowledge apparently demanded will now be able to acquire a thorough grasp of principles and practices Only an elementary knowledge of mathematics is presumed throughout Part 1 provides a brief introduction to basic concepts in archaeology and mathematics Part 2 relates the standard archaeological techniques and procedures to mathematics it concentrates on numerical approaches best suited to archaeological practices Part 3 examines various automatic seriation techniques and discusses further work that is coming to play an essential part in the development of archaeology

**Mathematics and Computers in Archeology** J. E. Doran, 1975      **A Dictionary of Archaeology** Ian Shaw, Robert Jameson, 2008-04-15 This dictionary provides those studying or working in archaeology with a complete reference to the field

*Archaeological Method and Theory* Linda Ellis, 2003-12-16 This Encyclopedia brings together the most recent scientific information on a collection of subjects that are too often and inconveniently treated in separate publications It provides a survey of archaeological method and theory as well as the application of physical and biological sciences in archaeological research Every aspect of archaeological work is represented from the discovery process to the ultimate disposition of materials Thus the reader will find entries on subject matter covering disciplinary theory legislation affecting the work of archaeologists pre excavation surveying excavation methodology on site conservation techniques post excavation analysis The rapid evolution of analytical technology is often superficially treated or not covered at all in textbooks or other commonly available sources Here the latest refinements in techniques such as radiometric dating stable isotopic analysis and the PCR technique of DNA analysis are presented clearly and authoritatively The discussion of these techniques is amplified by including results of the work of professionals conducting interdisciplinary research and by covering the methodological enhancements provided by the physical and natural sciences Cultural property legislation regardless of its country of origin has affected how archaeologists conduct their work This encyclopedia covers all major U S legislation developed for the protection of cultural property including the recent Native American Graves Protection and Repatriation Act and offers a substantial article on worldwide legislation concerning the reburial of human remains and its effects on the present and future practice of archaeology Without some sort of conservation program at the point of

excavation valuable materials may be inadvertently contaminated or destroyed Many simple and low cost techniques to promote both sample integrity and long term preservation for major classes of materials are described in this volume Traditional treatments of method and theory usually focus on prehistoric periods and are limited in their geographic range This volume includes discussions based on various historical periods on different continents as reflected in entries such as Historical Archaeology Industrial Archaeology Medieval Archaeology and Classical Archaeology Near Eastern Archaeology Suzanne Richard,2003-06-30 Filling a gap in classroom texts more than 60 essays by major scholars in the field have been gathered to create the most up to date and complete book available on Levantine and Near Eastern archaeology

*The Oxford Handbook of Archaeological Ceramic Analysis* Alice M. W. Hunt,2017 This volume draws together topics and methodologies essential for the socio cultural mineralogical and geochemical analysis of archaeological ceramic one of the most complex and ubiquitous archaeomaterials in the archaeological record It provides an invaluable resource for archaeologists anthropologists and archaeological materials scientists **Pottery in Archaeology** Clive Orton,Michael Hughes,2013-05-13 This revised edition provides an up to date account of the many different kinds of information that can be obtained through the archaeological study of pottery It describes the scientific and quantitative techniques that are now available to the archaeologist and assesses their value for answering a range of archaeological questions It provides a manual for the basic handling and archiving of excavated pottery so that it can be used as a basis for further studies The whole is set in the historical context of the ways in which archaeologists have sought to gain evidence from pottery and continue to do so There are case studies of several approaches and techniques backed up by an extensive bibliography

Studia Meroitica 1984 Sergio Donadoni,Steffen Wenig,1989-12-31 No detailed description available for Studia Meroitica 1984 **Advances in Archaeological Method and Theory** Michael B. Schiffer,2014-05-19 Selections for Students from Volumes 1 4 **Archeologia e Calcolatori, 30, 2019** Marco Arizza,Valeria Boi,Alessandra Caravale,Agosto Palombini,Alessandra Piergrossi,2019-11-28 Il volume 30 di Archeologia e Calcolatori si apre con un inserto speciale dedicato al trentennale della rivista Alle introduzioni di F Djindjian e di P Moscati che delineano un quadro dell'informatica archeologica nel suo divenire seguono gli articoli dei membri del Comitato di Redazione a testimoniare l'attività di ricerca e di sperimentazione che ha caratterizzato il cammino editoriale della rivista e il contributo di una giovane laureata dell'Università Bocconi che ha lavorato a stretto contatto con il team di Archeologia e Calcolatori Nella parte centrale sono pubblicati gli articoli proposti annualmente dagli autori Ne emerge un quadro che rappresenta gli aspetti applicativi più qualificanti dell'informatica archeologica le banche dati i GIS le analisi statistiche i sistemi multimediali ma che guarda oggi con sempre maggiore interesse agli strumenti di visualizzazione scientifica e di comunicazione delle conoscenze Il volume si chiude con gli Atti del XII Workshop ArcheoFOSS Free Libre and Open Source Software e Open Format nei processi di ricerca archeologica un'iniziativa lodevole nata nel 2006 cui si dà più volte spazio nelle pagine della rivista Archeologia e

Calcolatori, 31.2, 2020 Giovanna Bagnasco Gianni, Susanna Bortolotto, Andrea Garzulino, Matilde Marzullo, Alessandra Caravale, Paola Moscati, 2020-10-22 Nel volume 31 2 sono pubblicati gli Atti di due Convegni internazionali Il primo Milano internazionale la fragilità territoriale dei contesti archeologici Milano 13 marzo 2019 promosso dal Dipartimento di Beni Culturali e Ambientali dell'Università degli Studi di Milano e dal Dipartimento di Architettura e Studi Urbani del Politecnico di Milano a cura di G Bagnasco Gianni S Bortolotto A Garzulino e M Marzullo Il secondo Logic and computing The underlying basis of digital archaeology una sessione speciale dell'IMEKO TC 4 International Conference on Metrology for Archaeology and Cultural Heritage MetroArchaeo Firenze 4-6 dicembre 2019 a cura di A Caravale e P Moscati Gli Atti raccolgono rispettivamente 9 e 15 contributi introdotti dai curatori che illustrano scopi e risultati delle ricerche presentate in cui l'uso delle tecnologie informatiche determinante per l'analisi l'interpretazione e la diffusione e valorizzazione dei dati La prospettiva diacronica della sessione dedicata al calcolo e alla logica nella storia dell'informatica archeologica consente di collegare attraverso un ponte teorico metodologico le prime esperienze di informatizzazione dei dati archeologici con le tendenze più recenti dell'archeologia digitale **PROCEEDINGS 4th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. I**, Discourse and Argumentation in Archaeology: Conceptual and Computational Approaches Cesar Gonzalez-Perez, Patricia Martin-Rodilla, Martín Pereira-Fariña, 2023-11-03 This book covers the topic of discourse and argumentation in archaeology with an aim to serve the archaeology community The book presents discourse and argument analysis approaches and techniques in an affordable manner and applied to archaeological situations It focuses on techniques and approaches that can be applicable to multiple situations periods and cultures The book begins with an introduction to discourse and argumentation analysis as a general field and also as an auxiliary technique to archaeology The work includes conceptual applications ranging from causality ontological connections vagueness social production of discourse and public debates The work also devotes a section to computational approaches and describes the specifics of some well known families of algorithms such as lexical processing information extraction or sentiment analysis The conclusion comments on the future and which reflects on the previous chapters and discusses how the presented techniques and approaches should be adapted or improved for easier and more powerful application to archaeology Contributing authors bring perspectives from archaeology linguistics and computer science **Dynamics in Human and Primate Societies** Timothy A. Kohler, George G. Gumerman, 2000-02-10 As part of the SFI series this book presents the most up to date research in the study of human and primate societies presenting recent advances in software and algorithms for modeling societies It also addresses case studies that have applied agent based modeling approaches in archaeology cultural anthropology primatology and sociology Many things set this book apart from any other on modeling in the social sciences including the emphasis on small scale societies and the attempts to maximize realism in the modeling efforts applied to social problems and questions It is an ideal book for

professionals in archaeology or cultural anthropology as well as a valuable tool for those studying primatology or computer science

**New Technologies for the Humanities** Christine Mullings, Stephanie Kenna, Marilyn Deegan, Seamus Ross, 2019-05-20 No detailed description available for New Technologies for the Humanities

**Computational and Machine Learning Tools for Archaeological Site Modeling** Maria Elena Castiello, 2022-01-24 This book describes a novel machine learning based approach to answer some traditional archaeological problems relating to archaeological site detection and site locational preferences Institutional data collected from six Swiss regions Zurich Aargau Grisons Vaud Geneva and Fribourg have been analyzed with an original conceptual framework based on the Random Forest algorithm It is shown how the algorithm can assist in the modelling process in connection with heterogeneous incomplete archaeological datasets and related cultural heritage information Moreover an in depth review of past and more recent works of quantitative methods for archaeological predictive modelling is provided The book guides the readers to set up their own protocol for i dealing with uncertain data ii predicting archaeological site location iii establishing environmental features importance iv and suggest a model validation procedure It addresses both academics and professionals in archaeology and cultural heritage management and offers a source of inspiration for future research directions in the field of digital humanities and computational archaeology

**World Prehistory** Graeme Clark, 1977-12-15 This 1977 book provides a bibliography designed to give access to the whole of man's history before written records began

**Transformations** Colin Renfrew, Kenneth L. Cooke, 2014-05-10 Transformations Mathematical Approaches to Culture Change focuses on the application of contemporary mathematical techniques to the study of culture change and formulates problems in archaeology anthropology and historiography in such a way that they are susceptible to treatment of a mathematical kind Mathematical models extending from the almost purely quantitative methods of physics to the purely verbal conceptual explanations are described Emphasis is placed on catastrophe theoretic models that exemplify the use of soft mathematics in situations in which the use of hard quantitative models is not possible Comprised of 21 chapters this book begins with an overview of the role of mathematics in theoretical archaeology followed by a discussion on two general categories of mathematical methods that seem to be suitable for modeling cultural transformations methods of dynamical systems theory and methods that give greater emphasis on discrete entities and the structural relations or patterns among them Subsequent chapters deal with the use of mathematics in history morphogenesis in biological and social systems simulation of the growth of hierarchies and logistic trends in Southwest population growth A reconstruction of political units in the Valley of Mexico during the Toltec period is also presented This monograph will be of interest to archaeologists anthropologists historians biologists sociologists and mathematicians

**Agency Uncovered** Andrew Gardner, 2016-06-16 This book questions the value of the concept of agency a term used in sociological and philosophical literature to refer to individual free will in archaeology using examples from European and Asian prehistory classical Greece and Rome the Inka and other Andean cultures

**Computer Applications**

*and Quantitative Methods in Archaeology* ,1997

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code date dear employee s name we are thrilled to announce an exciting new initiative designed to recognize and reward your hard work dedication and outstanding contributions to company name

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web 1 performance based bonuses we will be introducing a performance based bonus structure that will directly correlate with your individual and team achievements your exceptional performance will be recognized and rewarded to ensure that your hard work is acknowledged 2