



Granite Downstream Production Dependent Size and Profitability Assessment: an application of Mathematical-based Artificial Intelligence Model and WipFrag Software

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Abstract

The purpose of this research work is to create empirical models for assessing the profitability of granite aggregate production in Akure, Ondo State, aggregate quarries. In addition, an Artificial Neural Network (ANN) model for granite profitability was developed. A structured survey questionnaire was used to collect data for the study. The data extracted from the case study mine for this study includes granite marketing operations, royalty, production costs, and mine production information. In this study, the efficacy of granite fragmentation was assessed using the WipFrag software. The relationship between particle size distribution, blast design, blast efficiency, and uniformity index were analyzed using the WipFrag result. The optimum blast design was also identified and recommended for mine production. The result revealed that large burden distances result in bigger X₅₀, X₈₀, and X_{max} fragmentation sizes. A burden distance of 2 m and a 2 m spacing were identified as the optimum burden and spacing. The finding revealed that blast mean size and 80% passing mesh size have a positive correlation. The result from this study indicated that the uniformity index has a positive correlation with blast efficiency and a negative correlation with maximum blast fragmentation size. The prediction accuracy of the developed models was evaluated using the coefficient of determination (R²), root mean square error (RMSE), and mean square error (MSE). The error analysis revealed that the ANN model is suitable for predicting quarry-generated profit.

1. Introduction

Mining has played a crucial role in fostering national development and driving technological progress over the course of several centuries. According to Osasan, a robust mining sector, similar to other industries, serves as a fundamental basis for the economic development of a nation [1]. Quarrying, which is a sub-division of the broader mining industry, plays a fundamental role in the construction sector of any economy. Solid minerals

are inherently interconnected with the evolution and development of human society and civilization. According to Hirooka [2], the advancement of civilization and the process of democratization, together with the global push for industrial economic growth, have led to a heightened requirement and desire for robust mineral resources. There is a parallel increase in technological advancements, construction activities, and building

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Production Assessment Of Numerical Software

Michael Hoelscher



Production Assessment Of Numerical Software:

Production and Assessment of Numerical Software L. M. Delves, 1980 *Production and Assessment of Numerical Software* M. A. Hennell, L. M. Delves, 1980 Analysis of numerical software Software verification Software portability Design of software libraries *Scientific Software Systems* J. C. Mason, 2012-12-06 The main aim of this book is to present a broader view of scientific software than has been common in the past The provision of scientific software is no longer a matter of just writing good computer programs but rather it is concerned with the development of an integrated software system which offers the user facilities which approach all that he needs in terms of speed accuracy and convenience This means that due account must for example be taken of the high speed computing capabilities of parallel processors the exact computing features of symbolic mathematical systems the presentational potentialities of computer graphics and the advisory aspects of knowledge based and expert systems When suites of numerical software programs or routines are supported by such ranges of facilities then they can be justly described as scientific software systems and that is why we have adopted such a title here The assembly of this book was a direct consequence of the running of a one day international symposium with the same broad aim of advocating a systems approach under the title Scientific Software and Systems This Symposium was held at the Royal Military College of Science RMCS in Shrivenham on July 11 1988 and was attended by 85 people A very busy but most enjoyable day included invited talks poster presentations and demonstrations of software products not to mention various social activities **Mathematical Aspects of Scientific Software** J.R. Rice, 2012-12-06 Since scientific software is the fuel that drives today's computers to solve a vast range of problems huge efforts are being put into the development of new software systems and algorithms for scientific problem solving This book explores how scientific software impacts the structure of mathematics how it creates new subfields and how new classes of mathematical problems arise The focus is on five topics where the impact is currently being felt and where important new challenges exist namely the new subfield of parallel and geometric computations the emergence of symbolic computation systems into general use the potential emergence of new high level mathematical systems and the crucial question of how to measure the performance of mathematical problem solving tools **Programming for Software Sharing** D.T. Muxworthy, 2012-12-06 Most computer users are familiar with the problems of sharing software with others and the transfer of programs from one computing environment to another Software represents an ever increasing proportion of the cost of computing and these costs tend to nullify all the economic advantages flowing from the wider availability of cheap hardware Years ago it was hoped that the widespread use of high level programming languages would help in alleviating the problems of software production by increasing productivity and by making it simpler for users with similar problems to be able to use the same programs possibly on different types of machines It is a common experience that in practice this simple optimism has proved to be unfounded It was these considerations which led us in 1979 to organize a two week course on Programming for Software

Sharing at the European Community Joint Research Centre Ispra Establishment Italy forming part of the regular series of Ispra Courses With prominent invited lecturers local contributions and through discussion sessions we examined with an audience from many countries the problems involved in the sharing and transfer of software as well as suggesting ways of overcoming them In our local environment we are faced daily with three problems both from engagements in software exchange in the scientific technical field on a Europe wide or world wide basis and from work with programming techniques and contributions to the international standardization process

Foundations of Software Testing Aditya Mathur, 2007 This book presents sound engineering approaches for test generation selection minimization assessment and enhancement Using numerous examples it offers a lucid description of a wide range of simple to complex techniques for a variety of testing related tasks Resource description page

Mathematical Reviews, 2001 Lectures on Finite Precision Computations Francoise Chaitin-Chatelin, Valerie Frayssé, 1996-01-01 Mathematics of Computing Numerical Analysis **Federal Software Exchange Catalog**, 1986 *Green Chemistry for Environmental Sustainability* Sanjay K. Sharma, Ackmez Mudhoo, 2010-07-19 When the Nobel Prize Committee recognized the importance of green chemistry with its 2005 Nobel Prize for Chemistry this relatively new science came into its own Although no concerted agreement has been reached yet about the exact content and limits of this interdisciplinary discipline there seems to be increasing interest in environmental topic

Software Development Tools Raymond C. Houghton, 1982 *International Progress in Precision Engineering* Fumiko Ikawa-Smith, 1993-05-13 International Progress in Precision Engineering documents the proceedings of the 7th International Precision Engineering Seminar held in Kobe Japan May 1993 The seminar brought together the world's leading precision engineering practitioners from areas of application as diverse as sensors actuators scanning tip microscopy micro and nano machining including bio machining ultra precision measuring machines machine tools and large optics for space technology The seminar included 10 oral sessions that dealt with the following topics I Metrology The Science Base For Precision Engineering II Sensors and Actuators in Precision Engineering and Nanotechnology III New Materials Applications and Ultra Precision Energy Beam Processing IV Nanotechnology Machining Processes V New Developments In Ultra Precision Machines VI Ultra Precision Servo and Control Technology VII Precision Engineering in Space Technology VIII X Ray Technologies and Their Applications IX Micromechanics and Micrometrology and X New Developments in Precision Engineering There were also poster sessions and an introductory keynote speech by Dr H Mizuno Executive Vice President of Matsushita Panasonic who talks on the symbiotic relationship between electronics and precision engineering

Scientific and Technical Aerospace Reports, 1995 **Handbook of Software Solutions for ICME** Georg J. Schmitz, Ulrich Prahl, 2016-10-31 As one of the results of an ambitious project this handbook provides a well structured directory of globally available software tools in the area of Integrated Computational Materials Engineering ICME The compilation covers models software tools and numerical methods allowing describing electronic atomistic and mesoscopic phenomena which in their

combination determine the microstructure and the properties of materials It reaches out to simulations of component manufacture comprising primary shaping forming joining coating heat treatment and machining processes Models and tools addressing the in service behavior like fatigue corrosion and eventually recycling complete the compilation An introductory overview is provided for each of these different modelling areas highlighting the relevant phenomena and also discussing the current state for the different simulation approaches A must have for researchers application engineers and simulation software providers seeking a holistic overview about the current state of the art in a huge variety of modelling topics This handbook equally serves as a reference manual for academic and commercial software developers and providers for industrial users of simulation software and for decision makers seeking to optimize their production by simulations In view of its sound introductions into the different fields of materials physics materials chemistry materials engineering and materials processing it also serves as a tutorial for students in the emerging discipline of ICME which requires a broad view on things and at least a basic education in adjacent fields

Software Portability Olivier Lecarme, Mireille Pellissier Gart, 1986

Software Programming Techniques NASA SP-7500 United States. National Aeronautics and Space Administration,

Evaluating Mathematical Programming Techniques J. M. Mulvey, 2012-12-06 **Verification, Validation, and Predictive Capability in Computational Engineering and Physics** William L. Oberkampf, Timothy Guy Trucano, Ch Hirsch, 2003 Developers of computer codes analysts who use the codes and decision makers who rely on the results of the analyses face a critical question How should confidence in modeling and simulation be critically assessed Verification and validation V V of computational simulations are the primary methods for building and quantifying this confidence Briefly verification is the assessment of the accuracy of the solution to a computational model Validation is the assessment of the accuracy of a computational simulation by comparison with experimental data In verification the relationship of the simulation to the real world is not an issue In validation the relationship between computation and the real world i e experimental data is the issue This paper presents our viewpoint of the state of the art in V V in computational physics In this paper we refer to all fields of computational engineering and physics e g computational fluid dynamics computational solid mechanics structural dynamics shock wave physics computational chemistry etc as computational physics We do not provide a comprehensive review of the multitudinous contributions to V V although we do reference a large number of previous works from many fields We have attempted to bring together many different perspectives on V V highlight those perspectives that are effective from a practical engineering viewpoint suggest future research topics and discuss key implementation issues that are necessary to improve the effectiveness of V V We describe our view of the framework in which predictive capability relies on V V as well as other factors that affect predictive capability Our opinions about the research needs and management issues in V V are very practical What methods and techniques need to be developed and what changes in the views of management need to occur to increase the usefulness reliability and impact of computational physics for decision

making about engineering systems We review the state of the art in V V over a wide range of topics for example prioritization of V V activities using the Phenomena Identification and Ranking Table PIRT code verification software quality assurance SQA numerical error estimation hierarchical experiments for validation characteristics of validation experiments the need to perform nondeterministic computational simulations in comparisons with experimental data and validation metrics We then provide an extensive discussion of V V research and implementation issues that we believe must be addressed for V V to be more effective in improving confidence in computational predictive capability Some of the research topics addressed are development of improved procedures for the use of the PIRT for prioritizing V V activities the method of manufactured solutions for code verification development and use of hierarchical validation diagrams and the construction and use of validation metrics incorporating statistical measures Some of the implementation topics addressed are the needed management initiatives to better align and team computationalists and experimentalists in conducting validation activities the perspective of commercial software companies the key role of analysts and decision makers as code customers obstacles to the improved effectiveness of V V effects of cost and schedule constraints on practical applications in industrial settings and the role of engineering standards committees in documenting best practices for V V

Recent Advances in Material, Manufacturing, and Machine Learning Bjorn Schuller,Rajeev Gupta,Rakesh Mote,Abhishek Sharma,J.P. Giri,R.B. Chadge,2024-06-17 The main aim of the 2nd international conference on recent advances in materials manufacturing and machine learning processes 2023 RAMMML 23 is to bring together all interested academic researchers scientists engineers and technocrats and provide a platform for continuous improvement of manufactur ing machine learning design and materials engineering research RAMMML 2023 received an overwhelm ing response with more than 530 full paper submissions After due and careful scrutiny about 120 of them have been selected for presentation The papers submitted have been reviewed by experts from renowned institutions and subsequently the authors have revised the papers duly incorporating the suggestions of the reviewers This has led to significant improvement in the quality of the contributions Taylor Francis publications CRC Press have agreed to publish the selected proceedings of the conference in their book series of Advances in Mechanical Engineering and Interdisciplinary Sciences This enables fast dissemina tion of the papers worldwide and increases the scope of visibility for the research contributions of the authors *Resources in Education*,1992-05

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