

## Computer Science Research Methodologies

Omankwu, Obinnaya Chinecherem, Nwagu, Chikezie Kenneth, and Inyiana, Hycient

<sup>1</sup> Computer Science Department, Michael Okpara University of Agriculture, Umudike  
Umuahia, Abia State, Nigeria  
saintthelovered@yuksos.com

<sup>2</sup> Computer Science Department, Nnamdi Azikiwe University, Awka Anambra State, Nigeria,  
Nwaguchikeziekeneth@hotmail.com

<sup>3</sup> Electronics & Computer Engineering Department, Nnamdi Azikiwe University, Awka  
Anambra State, Nigeria.

### ABSTRACT

This paper discusses the several research methodologies that can be used in Computer Science (CS) and Information Systems (IS). The research methods vary according to the science domain and project field. However a little of research methodologies can be reasonable for Computer Science and Information System.

**Keywords-** Computer Science (CS), Information Systems (IS), Research Methodologies.

### 1. INTRODUCTION

Science is an organized or systematic body of knowledge (Jain, 1997). Science embraces many different domains however those domains are related. Logic and mathematics sciences are the core of all sciences. From there and descending it emerge the natural sciences such as physic, chemistry and biology. In the next come the social sciences.

As (Denning, 2005) reported Computer Science (CS) should not be called as a science. Although CS is definitely a recent discipline, few will still argued that it is not provided with attributes to be qualified as a science. Computer Science has its specificity and has its bases in logic and mathematics.

However CS is transversal to very different domains in science. To understand which research methodologies that can be used in CS and IS we have to understand the differences between CS and IS.

Computer science (CS) characterized as an empirical discipline, in which each new program can be seen as an experiment, the structure and behavior of which can be studied (Allen ,2003). In particular, the field of CS is concerned with a number of different issues seen from a technological Perspective, e.g. theoretical aspects, such as numerical analysis, data Structures and algorithms; how to store and manipulate, the relationship between different pieces of software and techniques and tools for developing software .The field of Information Systems (IS) is concerned with the interaction between social and technological issues (Allen ,2003).

In other words, it is a field which focuses on the actual "link" between the human and social aspects (within an organization or other broader social setting), and the hardware, Software and data aspects of information technology (IT). In the next sections we will discuss the different methods of research methodology and its reasonability for the CS and IS domains.

### Abstraction in Computer Science

Computer scientists are often thought to labor exclusively in a world of bits, logic circuits and microprocessors. Indeed, the foundational concepts of computer science are described in the language of binary arithmetic and logic gates, but it is a fascinating aspect of the discipline that the levels of abstraction that one can lay upon this foundational layer are limitless, and make possible to model familiar objects and processes of every day life entirely within a digital world. When digital models are so ciently realistic, the environments they inhabit are called virtual worlds. So today, of course, there are virtual libraries, virtual shopping malls, virtual communities, and even virtual persons, like the digital version of actor Alan Alda created in an episode of PBS's *Scientific American Frontiers*.

Complex virtual worlds such as these are made possible by computer scientists' ability to distance themselves from the mundane and tedious level of bits and processors through tools of abstraction. To abstract is to describe something at a more general level than the level of detail seen from another point of view. For example, an architect may describe a house by specifying the height of the basement foundation, the location of load-bearing walls and partitions, the R-factor of the insulation, the size of the window and door rough openings, and so on. A realtor, however, may describe the same house as having a certain number of square feet, a certain number of bedrooms, whether the bathrooms are full or half, and so on. The realtor's description leaves out architectural detail but describes the same entity at a more general level, and so it is an abstraction of the architect's description. But abstraction is relative. For example, the architect's

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## **Research Methodologies In Computer Science Cs Swan:**

*SOFSEM 2013: Theory and Practice of Computer Science* Peter van Emde Boas, Frans C.A. Groen, Giuseppe F. Italiano, Jerzy Nawrocki, Harald Sack, 2013-01-12 This book constitutes the refereed proceedings of the 39th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2013 held in Pindler v Ml n Czech Republic in January 2013 The 37 revised full papers presented in this volume were carefully reviewed and selected from 98 submissions The book also contains 10 invited talks 5 of which are in full paper length The contributions are organized in topical sections named foundations of computer science software and Web engineering data information and knowledge engineering and social computing and human factors

**Handbook of Satisfiability** Armin Biere, Hans van Maaren, Toby Walsh, 2021-05-15 Propositional logic has been recognized throughout the centuries as one of the cornerstones of reasoning in philosophy and mathematics Over time its formalization into Boolean algebra was accompanied by the recognition that a wide range of combinatorial problems can be expressed as propositional satisfiability SAT problems Because of this dual role SAT developed into a mature multi faceted scientific discipline and from the earliest days of computing a search was underway to discover how to solve SAT problems in an automated fashion This book the Handbook of Satisfiability is the second updated and revised edition of the book first published in 2009 under the same name The handbook aims to capture the full breadth and depth of SAT and to bring together significant progress and advances in automated solving Topics covered span practical and theoretical research on SAT and its applications and include search algorithms heuristics analysis of algorithms hard instances randomized formulae problem encodings industrial applications solvers simplifiers tools case studies and empirical results SAT is interpreted in a broad sense so as well as propositional satisfiability there are chapters covering the domain of quantified Boolean formulae QBF constraints programming techniques CSP for word level problems and their propositional encoding and satisfiability modulo theories SMT An extensive bibliography completes each chapter This second edition of the handbook will be of interest to researchers graduate students final year undergraduates and practitioners using or contributing to SAT and will provide both an inspiration and a rich resource for their work Edmund Clarke 2007 ACM Turing Award Recipient SAT solving is a key technology for 21st century computer science Donald Knuth 1974 ACM Turing Award Recipient SAT is evidently a killer app because it is key to the solution of so many other problems Stephen Cook 1982 ACM Turing Award Recipient The SAT problem is at the core of arguably the most fundamental question in computer science What makes a problem hard

**The PSI Handbook of Virtual Environments for Training and Education** Joseph V. Cohn, Dylan Schmorrow, Denise Nicholson, 2008-11-30 The increasingly complex environment of the 21st century demands unprecedented knowledge skills and abilities for people from all walks of life One powerful solution that blends the science of learning with the technological advances of computing is Virtual Environments In the United States alone the Department of Defense has invested billions of dollars over the past decade to make this field and its

developments as effective as possible This 3 volume work provides for the first time comprehensive coverage of the many different domains that must be integrated for Virtual Environments to fully provide effective training and education The first volume is dedicated to a thorough understanding of learning theory requirements definition and performance measurement providing insight into the human centric specifications the VE must satisfy to succeed Volume II provides the latest information on VE component technologies and Volume III offers discussion of an extensive collection of integrated systems presented as VE use cases and results of effectiveness evaluation studies The text includes emerging directions of this evolving technology from cognitive rehabilitation to the next generation of museum exhibitions Finally the handbook offers a glimpse into the future with this fascinating technology This groundbreaking set will interest students scholars and researchers in the fields of military science technology computer science business law enforcement cognitive psychology education and health Topics addressed include guidance and interventions using VE as a teaching tool what to look for in terms of human centered systems and components and current training uses in the Navy Army Air Force and Marines Game based and long distance training are explained as are particular challenges such as the emergence of VE sickness Chapters also highlight the combination of VE and cybernetics robotics and artificial intelligence

*Handbook of Research on Online Discussion-Based Teaching Methods* Wilton, Lesley, Brett, Clare, 2020-05-01 In this digital age faculty teachers and teacher educators are increasingly expected to adopt and adapt pedagogical perspectives to support student learning in instructional environments featuring online or blended learning One highly adopted element of online and blended learning involves the use of online learning discussions Discussion based learning offers a rich pedagogical context for creating learning opportunities as well as a great deal of flexibility for a wide variety of learning and learner contexts As post secondary and increasingly K 12 institutions cope with the rapid growth of online learning and an increase in the cultural diversity of learners it is critical to understand at a detailed level the relationship between online interaction and learning and how educationally effective interactions might be nurtured in an inclusive way by instructors The Handbook of Research on Online Discussion Based Teaching Methods is a cutting edge research publication that seeks to identify promising designs pedagogical and assessment strategies conceptual models and theoretical frameworks that support discussion based learning in online and blended learning environments This book provides a better understanding of the effects and both commonalities and differences of new tools that support interaction such as video audio and real time interaction in discussion based learning Featuring a wide range of topics such as gamification intercultural learning and digital agency this book is ideal for teachers educational software developers instructional designers IT consultants academicians curriculum designers researchers and students

**Business Research Methods** Alan Bryman, Emma Bell, 2015 An adaptation of Social Research Methods by Alan Bryman this volume provides a comprehensive introduction to the area of business research methods It gives students an assessment of the contexts within which different methods may be used and how they should be

implemented Recent Developments in Metaheuristics Lionel Amodeo, El-Ghazali Talbi, Farouk Yalaoui, 2017-09-18 This book highlights state of the art developments in metaheuristics research It examines all aspects of metaheuristic research including new algorithmic developments applications new research challenges theoretical developments implementation issues in depth experimental studies The book is divided into two sections Part I is focused on new optimization and modeling techniques based on metaheuristics The chapters in this section cover topics from multi objective problems with fuzzy data with triangular valued objective functions to hyper heuristics optimization methodology designing genetic algorithms and also the cuckoo search algorithm The techniques described help to enhance the usability and increase the potential of metaheuristic algorithms Part II showcases advanced metaheuristic approaches to solve real life applications issues This includes an examination of scheduling the vehicle routing problem multimedia sensor network supplier selection bin packing objects tracking and radio frequency identification In the fields covered in the chapters are of high impact applications of metaheuristics The chapters offer innovative applications of metaheuristics that have a potential of widening research frontiers Altogether this book offers a comprehensive look at how researchers are currently using metaheuristics in different domains of design and application Thematic Synthesis of Educational Learning Environments Myint Swe Khine, Rekha Koul, 2026-01-01 The volume explores the intricate dynamics of learning environments by delving into the psychosocial aspects of classrooms as perceived by both students and teachers This essential resource examines the complex factors influencing learning environments and their impact on a wide range of stakeholders including students parents and school administrators Internationally validated questionnaires such as My Class Inventory MCI What Is Happening in This Class WIHIC and Science Laboratory Environment Inventory SLEI are highlighted as key tools for evaluating classroom climate and learning environments Through these instruments the book uncovers valuable insights into improving student learning outcomes curriculum design and assessment strategies The volume presents machine generated literature on emerging research highlights and promising results offering invaluable insights for academics researchers teacher trainers trainee teachers school principals superintendents and students at both undergraduate and postgraduate levels Journal of Research and Practice in Information Technology, 2003 International Journal of Computer Systems Science & Engineering, 1993 Computer Systems Science & Engineering, 1993 Laboratory for Computer Science Progress Report Massachusetts Institute of Technology. Laboratory for Computer Science, 1993 **Notices of the American Mathematical Society** American Mathematical Society, 1990 **Biomedical Visualization** IEEE Biomedical Visualization Symposium, 1995 American Book Publishing Record, 2000 Proceedings, 1995 Biomedical Visualization, October 30-November 3, 1995, Atlanta, Georgia Murray H. Loew, Nahum Gershon, 1995 Two invited and seven contributed papers provide a snapshot of medical visualization from perspectives of interest to equipment designers researchers and clinicians They cover three dimensional anthropometry of the human body reconstruction and registration of images and methods for

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