Computer Science Research Methodologies

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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 su 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 Scienti c 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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<u>Handbook of Satisfiability</u> A. Biere,M. Heule,H. van Maaren,2009-01-29 Satisfiability SAT related topics have attracted researchers from various disciplines logic applied areas such as planning scheduling operations research and combinatorial optimization but also theoretical issues on the theme of complexity and much more they all are connected through SAT My personal interest in SAT stems from actual solving The increase in power of modern SAT solvers over the past 15 years has been phenomenal It has become the key enabling technology in automated verification of both computer hardware and software Bounded Model Checking BMC of computer hardware is now probably the most widely used model checking technique The counterexamples that it finds are just satisfying instances of a Boolean formula obtained by unwinding to some fixed depth a sequential circuit and its specification in linear temporal logic Extending model checking to software verification is a much more difficult problem on the frontier of current research One promising approach for languages like C with finite word length integers is to use the same idea as in BMC but with a decision procedure for the theory of bit vectors instead of SAT All decision procedures for bit vectors that I am familiar with ultimately make use of a fast SAT solver to handle complex formulas Decision procedures for more complicated theories like linear real and integer arithmetic are also used in program verification Most of them use powerful SAT solvers in an essential way Clearly efficient SAT solving is a key technology for 21st century computer science I expect this collection of papers on all theoretical and practical aspects of SAT solving will be extremely useful to both students and researchers and will lead to many further advances in the field Edmund Clarke FORE Systems University Professor of Computer Science and Professor of Electrical and Computer Engineering at Carnegie Mellon University winner of the 2007 A M Turing Award *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 **Algebra and Coalgebra in Computer Science** Till Mossakowski,Ugo Montanari,Magne Haveraaen,2007-08-22 A double pronged approach makes this book an extremely useful addition to the literature on this highly relevant contemporary topic Addressing two basic areas of application for algebras and coalgebras as mathematical objects as well as in the context of their application in computer science the papers cover topics such as abstract models and logics specialised models and calculi algebraic and coalgebraic semantics and system specification and verification The book is the refereed proceedings of the second CALCO conference held in August 2007 in Norway *Computer Graphics* Nobuhiko Mukai,2012-03-30 Computer

graphics is now used in various fields for industrial educational medical and entertainment purposes The aim of computer graphics is to visualize real objects and imaginary or other abstract items In order to visualize various things many technologies are necessary and they are mainly divided into two types in computer graphics modeling and rendering technologies This book covers the most advanced technologies for both types It also includes some visualization techniques and applications for motion blur virtual agents and historical textiles This book provides useful insights for researchers in computer graphics   Computer Science Education Research Sally Fincher,Marian Petre,2005-09-26 This book provides an overview of how to approach computer science education research from a pragmatic perspective It represents the diversity of traditions and approaches inherent in this interdisciplinary area while also providing a structure within which to make sense of that diversity It provides multiple entry points to literature to me   *Communicating Process Architectures 2015 & 2016* K. Chalmers,J. Bækgaard Pedersen,F.R.M. Barnes,2018-10-04 This book presents the proceedings of two conferences the 37th and 38th in the WoTUG series Communicating Process Architectures CPA 2015 held in Canterbury England in August 2015 and CPA 2016 held in Copenhagen Denmark in August 2016 Fifteen papers were accepted for presentation at the 2015 conference They cover a spectrum of concurrency concerns mathematical theory programming languages design and support tools verification multicore infrastructure and applications ranging from supercomputing to embedded Three workshops and two evening fringe sessions also formed part of the conference and the workshop position papers and fringe abstracts are included in this book Fourteen papers covering the same broad spectrum of topics were presented at the 2016 conference one of them in the form of a workshop They are all included here together with abstracts of the five fringe sessions from the conference   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   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 **Data Visualization** Alexandru C. Telea,2014-09-18 Designing a complete visualization system involves many subtle decisions When designing a complex real world visualization system such decisions involve many types of constraints such as performance platform in dependence available programming languages and styles user interface toolkits input output data format constraints integration wi **Handbook of Research on TPACK in the Digital Age** Niess, Margaret L.,Gillow-Wiles, Henry,Angeli, Charoula,2018-11-02 This title is an IGI Global Core Reference for 2019 as it was co edited by a leading education scholar this title provides the latest research on the enhancement of Technological Pedagogical Content Knowledge TPACK Building upon her previous studies conducted through multiple Mathematics and Science Partnership MSP grants from the U S Department of Education this comprehensive publication brings together over 45 educational experts from the U S South America and Europe to provide online learning digital technologies and pedagogical strategies The Handbook of Research on TPACK in the Digital Age provides innovative insights into teacher preparation for the effective integration of digital technologies into the classroom The content within this publication represents the work of online learning digital technologies and pedagogical strategies It is designed for teachers educational designers instructional technology faculty administrators academicians and education graduate students and covers topics centered on classroom technology integration and teacher knowledge and support **Genetic Programming Theory and Practice XIV** Rick Riolo,Bill Worzel,Brian Goldman,Bill Tozier,2018-10-24 These contributions written by the foremost international researchers and practitioners of Genetic Programming GP explore the synergy between theoretical and empirical results on real world problems producing a comprehensive view of the state of the art in GP Chapters in this volume include Similarity based Analysis of Population Dynamics in GP Performing Symbolic Regression Hybrid Structural and Behavioral Diversity Methods in GP Multi Population Competitive Coevolution for Anticipation of Tax Evasion Evolving Artificial General Intelligence for Video Game Controllers A Detailed Analysis of a PushGP Run Linear Genomes for Structured Programs Neutrality Robustness and Evolvability in GP Local Search in GP PRETSL Distributed Probabilistic Rule Evolution for Time Series Classification Relational Structure in Program Synthesis Problems with Analogical Reasoning An Evolutionary Algorithm for Big Data Multi Class Classification Problems A Generic Framework for Building Dispersion Operators in the Semantic Space Assisting Asset Model Development with Evolutionary Augmentation Building Blocks of Machine Learning Pipelines for Initialization of a Data Science Automation Tool Readers will discover large scale real world applications of GP to a variety of

problem domains via in depth presentations of the latest and most significant results   *Handbook of Psychology, Research Methods in Psychology* Irving B. Weiner,John A. Schinka,Wayne F. Velicer,2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can t help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology s new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology   **Industrial Engineering: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2012-08-31 Industrial engineering affects all levels of society with innovations in manufacturing and other forms of engineering oftentimes spawning cultural or educational shifts along with new technologies Industrial Engineering Concepts Methodologies Tools and Applications serves as a vital compendium of research detailing the latest research theories and case studies on industrial engineering Bringing together contributions from authors around the world this three volume collection represents the most sophisticated research and developments from the field of industrial engineering and will prove a valuable resource for researchers academics and practitioners alike   **Student Engagement and Participation: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2017-06-19 The delivery of quality education to students relies heavily on the actions of an institution s administrative staff Effective teaching strategies allow for the continued progress of modern educational initiatives Student Engagement and Participation Concepts Methodologies Tools and Applications provides comprehensive research perspectives on the multi faceted issues of student engagement and involvement within the education sector Including innovative studies on learning environments self regulation and classroom management this multi volume book is an ideal source for educators professionals school administrators researchers and practitioners in the field of education   **Studies in Ada® Style** P. Hibbard,A. Hisgen,J. Rosenberg,M. Shaw,M. Sherman,2012-12-06   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   *The Palgrave Encyclopedia of the Possible* Vlad Petre Glăveanu,2023-01-25 The Palgrave Encyclopedia of the Possible represents a comprehensive resource for researchers and practitioners interested in an emerging multidisciplinary area within psychology and the social sciences the study of how we engage with and cultivate the possible within self society and culture Far from being opposed either to the actual or the real the possible engages with concrete facts and experiences with the result of transforming them This encyclopedia examines the notion of the possible and the concepts associated with it from standpoints within psychology philosophy sociology neuroscience and logic as well as multidisciplinary fields of research including anticipation studies future studies complexity theory and creativity research Presenting multiple perspectives on the possible the authors consider the distinct social cultural and psychological processes e g imagination counterfactual thinking wonder play inspiration and many others that define our engagement with new possibilities in domains as diverse as the arts design and business   **Virtual Education** Fawzi Albalooshi,2003-01-01 Recent technological advances have made virtual education an increasingly popular and effective degree program in many colleges and universities across the globe and this academic book considers the challenges that students faculty and information specialists face in successful implementation Current research is provided on designing e learning environments to suit different cognition styles forming online communities through group support systems and creative idea generation and facilitating instructor student communication and performance assessment Attention is given to evaluating multimedia and educational software   Complexity of Constraints Nadia Creignou,Phokion G. Kolaitis,Heribert Vollmer,2008-12-18 Nowadays constraint satisfaction problems CSPs are ubiquitous in many different areas of computer science from artificial intelligence and database systems to circuit design network optimization and theory of programming languages Consequently it is important to analyze and pinpoint the computational complexity of certain algorithmic tasks related to constraint satisfaction The complexity theoretic results of these tasks may have a direct impact on for instance the design and processing of database query languages or strategies in data mining or the design and implementation of planners This state of the art survey contains the papers that were invited by the organizers after conclusion of an International Dagstuhl Seminar on Complexity of Constraints held in Dagstuhl Castle Germany in October 2006 A number of speakers were solicited to write surveys presenting the state of the art in their area of expertise These contributions were peer reviewed by experts in the field and revised before they were collated to the 9 papers of this volume In addition the volume contains a reprint of a survey by Kolaitis and Vardi on the logical approach to constraint satisfaction that first appeared in Finite Model Theory and its Applications published by Springer in 2007   *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

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