

# Research Methods in Computing: What are they, and how should we teach them?

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## ABSTRACT

Despite a lack of consensus on the nature of Computing Research Methods (CRM), a growing number of programs are exploring models and content for CRM courses. This report is one step in a participatory design process to develop a general framework for thinking about and teaching CRM.

We introduce a novel sense-making structure for teaching CRM. That structure consists of a road map to the CRM literature, a framework grounded in questions rather than answers, and two CRM skill sets: core skills and specific skills. We integrate our structure with a model for the process a learner goes through on the way to becoming an expert computing researcher and offer example learning activities that represent a growing repository of course materials meant to aid those wishing to teach research skills to computing students.

Our model is designed to ground discussion of teaching CRM and to serve as a roadmap for institutions, faculty, students and research communities addressing the transition from student to fully enfranchised member of a computing research community of practice. To that end, we offer several possible scenarios for using our model.

In computing, research methods have traditionally been passed from advisor to student via apprenticeship. Establishing a richer pedagogy for training researchers in computing will benefit all (see Figure 1).

## Categories and Subject Descriptors

**K.3.2 [Computers and Education]:** Computer and Information Science Education—Computer science education, Information systems education, Literacy

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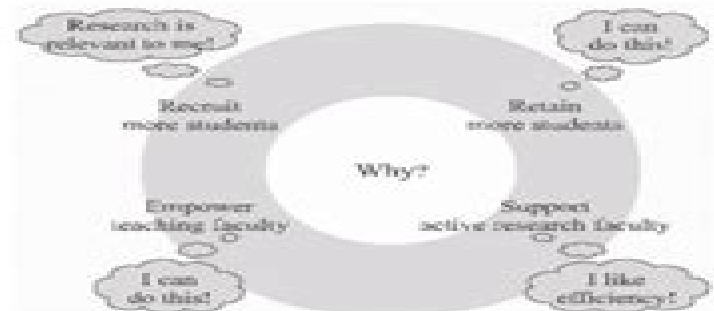


Figure 1: A richer set of options for teaching CRM benefits all the stakeholders.

## General Terms

Experimentation, Human Factors, Design

## Keywords

Research Methods, Situated Learning, Constructivism, Pedagogy, Learning Activities

## 1. INTRODUCTION

Despite a lack of consensus on the nature of Computing Research Methods (CRM), a growing number of programs are exploring models and content for CRM courses with varying degrees of success [87, 84, 101, 105]. In 2005, the SIGCSE Committee on Teaching Computer Science Research Methods (SIGCSE-CSRSM) [89] was founded to facilitate collaborative exploration of the content, pedagogy and curricular issues related to teaching CRM. SIGCSE-CSRSM runs a listserv, sponsors meetings at technical conferences, and hosts a Wiki [88].

On the listserv and at a Birds-of-a-feather (BOF) session at SIGCSE 2006 [41], the most frequently mentioned barriers to establishing a successful course were: (1) not being sure what material to teach, and (2) a lack of resources from which to build

# Research Methods In Computing

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Olsson, Björn Lundell**



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*Handbook of Research Methods in Computing*, 2010 *Research Methods for Information Systems* KING, Ronald Scott King, 2011-06-03 This book is designed for a first course in research and statistical methods in computing and does not assume the student has previous knowledge of the subject Research Methods for Information Systems shows how to apply research and statistical methods to the current problems faced in a variety of fields but with special emphasis on computer science and information systems It takes a non threatening approach to the subject avoiding excessive mathematics and abstract theory and includes numerous exercises and examples to ensure the students understand the relevance of research methodology applications Throughout the text lead articles examples and exercises provide students with actual instances of various research methods including implementation driven research mathematical proof techniques empiricism and observational research This diversity in research methods in the computing fields is due to the fact that topics in the disciplines of computer science and information systems are technologically based rather than theory driven logic The author also exposes students to qualitative and mixed research methods This is extremely important since within information systems there has been a general shift in information system research away from technological studies toward more

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Human-Computer Interaction. Theories, Methods, and Tools Masaaki Kurosu, 2014-06-07 The 3 volume set LNCS 8510 8511 and 8512 constitutes the refereed proceedings of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas

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**History of Nordic Computing 3** John Impagliazzo, Per Lundin, Benkt Wangler, 2011-09-29 This book constitutes the refereed post proceedings of the Third IFIP WG 9.7 Conference on the History of Nordic Computing HiNC3 held in Stockholm Sweden in October 2010 The 50 revised full papers presented together with a keynote address and a panel discussion were carefully reviewed and selected from numerous submissions The papers focus on the application and use of ICT and ways in which technical progress affected the conditions of the development and use of ICT systems in the Nordic countries covering a period from around 1970 until the beginning of the 1990s They are organized in the following topical sections computerizing public sector

industries computerizing management and financial industries computerizing art media and schools users and systems development the making of a Nordic computing industry Nordic networking Nordic software development Nordic research in software and systems development teaching at Nordic universities and new historiographical approaches and methodological reflections      *Thesis Projects* Mikael Berndtsson, Jörgen Hansson, B. Olsson, Björn Lundell, 2007-10-30 Any B Sc or M Sc study programme in the computing discipline typically ends with a capstone project A capstone project builds and tests the skills and the knowledge acquired during the education and is an essential part of the training towards becoming a professional There is a large number of different terms for these types of projects capstone project senior project final year project B Sc M Sc thesis project etc In this book we will use the term thesis project and in some cases for the sake of simplicity just project This book focuses on thesis projects within the computing discipline Thus the type of project discussed in this book is in line with the capstone format described in the ACM IEEE Computing Curricula 2001 Computer Science p 53 an alternative capstone format is a research experience that includes some original work a review of the scientific literature and an investigation of a proposed solution followed by a scientific paper and or an oral presentation of the results It is important to remember that these are undergraduates and be realistic about the amount and quality of research expected Even so it may be more worthwhile to expose outstanding students to the challenges of research than to have them design and build yet another program In this book we present a process for conducting thesis projects with the research orientation described in the quote above      **Research Methodology And Computer Applications** Mr. Rohit Manglik, 2024-09-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      *Frontier Computing* Jason C. Hung, Neil Y. Yen, Lin Hui, 2019-05-18 This book presents the proceedings of the 6th International Conference on Frontier Computing held in Kuala Lumpur Malaysia on July 3-6 2018 and provides comprehensive coverage of the latest advances and trends in information technology science and engineering It addresses a number of broad themes including communication networks business intelligence and knowledge management web intelligence and related fields that inspire the development of information technology The contributions cover a wide range of topics database and data mining networking and communications web and internet of things embedded systems soft computing social network analysis security and privacy optical communication and ubiquitous pervasive computing Many of the papers outline promising future research directions The book is a valuable resource for students researchers and professionals and also offers a useful reference guide for newcomers to the field      *Computer Applications in the Social Sciences* Edward E. Brent, Ronald E. Anderson, 1990 Presenting an introduction to computing and advice on computer applications this book examines hardware and software with respect to the needs of the social scientist It offers a framework for the use of computers with focus on the

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