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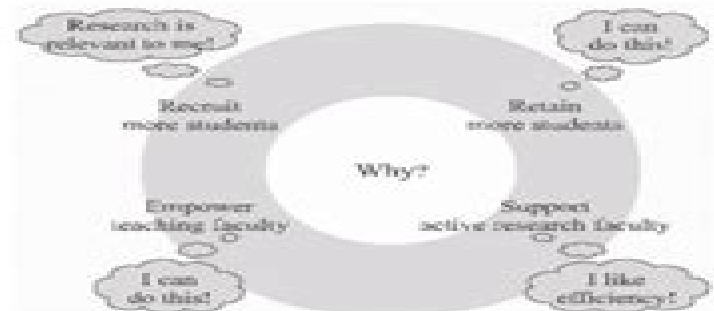
Figure 1: A richer set of options for teaching CRM benefits all the stakeholders.

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-CSRM) [89] was founded to facilitate collaborative exploration of the content, pedagogy and curricular issues related to teaching CRM. SIGCSE-CSRM 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

Mr. Rohit Manglik

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studies toward more managerial and organizational issues Research method topics covered and summarized include proposal formulation research design methods of investigation methods of demonstrating concepts approaches to research validation and documentation of research results **Research Methods for Information Systems** Ronald S. King,2013 Assuming no previous knowledge this book provides comprehensive coverage for a first course in research descriptive statistics data mining probability estimation hypothesis testing chi square tests linear regression variance random number generation guide to research model construction statistical software axiomatic research simulation and clustering methods simulations statistical tables **Researching Information Systems and Computing** Briony J Oates,2005-12-18 With everything readers need to know about how to execute their research project this book is written specifically for information systems IS and computing students It introduces key quantitative and qualitative research methods makes sense of underlying philosophies and helps readers navigate and assess existing academic papers Special features support students as they bridge the gap between theory and practice These include research examples from the IS and computing disciplines suggestions on how to build internet research into each method mentioned an explanation of how knowledge is created drawing an analogy between this and the creation of software systems Throughout readers are supported by pedagogical features such as learning objectives explanations discussion questions evaluation guides and further reading **Research Methods in Software Engineering** Simon Giesecke,2006 **The Science of Computing** Matti Tedre,2014-12-03 The identity of computing has been fiercely debated throughout its short history Why is it still so hard to define computing as an academic discipline Is computing a scientific mathematical or engineering discipline By describing the mathematical engineering and scientific traditions of computing The Science of Computing Shaping a Discipli *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 *RESEARCH METHODS FOR COMPUTING AND INFORMATICS.* ,2024 **Researching Information Systems and Computing** Briony J Oates,2006 With everything readers need to know about how to execute their research project this book is written specifically for information systems IS and computing students It introduces key quantitative and qualitative research methods makes sense of underlying philosophies and will help readers navigate and assess existing published academic papers Throughout readers are supported by pedagogical features such as learning objectives explanations discussion questions evaluation guides and suggestions for further reading *Teaching Psychology* James

Hartley,Wilbert James McKeachie,1990 This publication is the first to cover the entire field of teaching psychology and includes teaching methods advising and curriculum planning as well as special problems in teaching laboratory and statistics courses The articles selected provide thought provoking reading for an international readership Each of twelve subject oriented sections contains a brief introduction five articles and suggested further readings for those wishing to pursue a particular topic in more detail **Research Methodology and Strategy** Patrick X. W. Zou,Xiaoxiao Xu,2023-08-01 Research Methodology and Strategy Provides comprehensive coverage of the entire research process methodologies strategies and their applications ideal for final year undergraduate Masters and PhD students academics researchers and professionals Research Methodology and Strategy Theory and Practice is designed to help readers understand the research process and equip them with the skills required to successfully execute their projects In depth chapters describe the general research processes different research paradigms and their applications and criticism and more Written by authors with decades of research experience this authoritative textbook addresses the skills needed by all active researchers including mixed method research design and development data and technology driven research methodologies writing and publishing research outcomes strengthening research practice nexus and strategies for improving research impact and citations Provides a solid understanding of interdisciplinary research and analytical methods Offers clear guidance on the application of data driven and technology enabled research methods Covers qualitative quantitative and mixed methods research methodologies Discusses different case study research methods and practices Describes methods drawn from business management economics and social sciences research Provides strategies for thesis and journal article writing and publishing Provides theoretical frameworks and examples for research practice nexus and improving research impacts Research Methodology and Strategy Theory and Practice is an invaluable textbook for senior undergraduate masters and PhD research students academic and scientific researchers and industry professionals who perform research in the course of their work

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