

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

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Rachel S Tattersall



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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 **Handbook of Research Methods in Computing**, 2010 *Research Methods of Computer Science* Ehtiram Raza Khan, **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 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 **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 Discipline* presents a rich picture of computing from the viewpoints of the field's champions The book helps readers understand the debates about computing as a discipline It explains the context of computing's central debates and portrays a broad perspective of the discipline The book first looks at computing as a formal theoretical discipline that is in many ways similar to mathematics yet different in crucial ways It traces a number of discussions about the theoretical nature of computing from the field's intellectual origins in mathematical logic to modern views of the role of theory in computing The book then explores the debates about computing as an engineering discipline from the central technical innovations to the birth of the modern technical paradigm of computing to computing's arrival as a new technical profession to software engineering gradually becoming an academic discipline It presents arguments for and against the view of computing as engineering within the context of software production and analyzes the clash between the theoretical and practical mindsets The book concludes with the view of computing as a science in its own right not just as a tool for other sciences It covers the early identity debates of computing various views of computing as a science and some famous characterizations of the discipline It also addresses the experimental computer science debate the view of computing as a natural science and the

algorithmization of sciences *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

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