

Research problem

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Choosing a Computer Science research problem

Basic Or Applied Research

- Research that attempts to shed light on humanities conceptualization about a particular phenomenon is known as *basic research*. Basic research results tend to be generally true but not immediately (if ever) applicable to real world problems.
- Research that relates to practical problems is known as *applied research*. *Applied research tends to be the darling* of industry and government as it is likely to have consequences that can be measured in the shorter term.

Unsuitable problems

- **Research is not simply learning about something**
- **Research is not the simple comparison of data sets**
- **Correlating data sets is not research**
- **Research problems do not simply result in a “yes” or a “no” answer**

What is a good problem for you?

- You find the problem interesting
- You feel the problem is something you can tackle in a reasonable amount of time.
- You care about the problem enough to expend resources on in terms of time, effort, money, etc.
- You think you might be able to make a contribution to solving the problem or part of it.

Finding a legitimate problem

- **Supervisor Suggestions**
- **Suggestions of Others**
- **Replicate Research with modifications**
- **Apply an existing technique to a new domain**
- **Address Contradiction and Ambiguity**
- **Challenge Findings**

Stating the problem

(Famous First Words)

The current study investigates the relationship between . . .

- The focus of this study will be on . . .
- The main purpose of this study is . . .
- The objective of this research is to determine . . .
- The present study is designed to examine . . .
- The primary goal of this study is . . .
- The primary concern of this research is . . .
- The principal objective of this study is . . .
- The purpose of this study is to address the problem of . . .
- The purpose of the present study is . . .
- The purpose of this study is to advance understanding of . . .
- The purpose of this study is to determine . . .
- The purpose of this study is to develop a conceptual model . . .
- The purpose of this study is to evaluate . . .
- The purpose of this study is to explore the . . .
- The purpose of this study is to examine and better understand the effects of . . .
- The purpose of this study is to inventory . . .
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- The purpose of this study is twofold. First, this study will assess the . . .
- This research concentrates on . . .
- The research problem for this study is to describe the . . .
- The specific objectives of the present study are . . .
- This study examines the relationships among . . .
- There are several reasons for inquiring into . . .
- This thesis explores the idea . . .
- This thesis will deal with . . .
- My thesis is...
- This investigation will explore . . .
- This investigation represents an attempt to address several . . .
- This paper is concerned with . . .
- This paper will focus on . . .
- This research represents an investigation into the problem of . . .
- This research represents an attempt to test the effectiveness of . . .
- This study examines . . .
- This study has two purposes . . .
- This study is concerned with . . .
- This study is an attempt to . . .
- This study is based on several assumptions . . .
- This study is designed to replicate...

Evaluating the problem statement

- **Research statement written clearly.**
- **Problem stated in grammatically complete sentences.**
- **Problem has clearly stated limitations.**
- **Statement has potential for leading to important results.**
- **The statement will lead to the analysis of data.**
- **The problem is focused enough to lead to an answer with reasonable effort.**
- **Problem has been reviewed by someone else who provided feedback.**

THANK YOU

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THE END