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qualitative research
methods an overview
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Lecture 1 (MiniCourse)
Engineering Research
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research methods, from~~

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data acquisition, data analysis, sample size, validity and so on. The research found within engineering programs tends to be grounded firmly in the positivist paradigm with a predominant dependence on the use of quantitative methodologies and methods. Even where qualitative research

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Research
Methods are used, the

Methods

~~Qualitative Research
Methods in Engineering~~

an overview of

qualitative research

methods, outline key

opportunities where

qualitative methods can

be used to enhance

engineering design

research, and present a

case example of a

qualitative study on

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interdisciplinary
interactions in complex
system design.

Keywords: qualitative
research,
interdisciplinary
interactions, research
methods

~~USING
QUALITATIVE
RESEARCH
METHODS IN
ENGINEERING~~

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Traditionally, research in engineering design has focused on quantitative methodologies whose constructs are familiar to engineers. Our assertion here that qualitative research methodologies that are less familiar to engineers can provide unique scientific insights into

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the study of engineering design, enabling new findings not obtainable via quantitative methodologies.

Approaches

~~Using qualitative research methods in engineering design ...~~

The purpose of this research review is to open dialog about quantitative, qualitative, and mixed research

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Research in engineering education research. Our position is that no particular method is privileged over any other. Rather, the choice must be driven by the research questions.

~~Quantitative,
Qualitative, and Mixed
Research Methods in ...~~

The paper compares

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Research and
qualitative research,
Methods
describes some
Qualitative And
qualitative data
Quantitative
collection strategies used
Approaches
in engineering
education, addresses
methods for establishing
trustworthiness, and
discusses strategies for
analyzing qualitative
data.

~~Qualitative Methods~~

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~~Used in the Assessment
of Engineering ...~~

A variety of methods or combinations thereof are being used in research within the engineering management discipline including case study, grounded theory, quantitative questionnaire, qualitative...

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~~(PDF) Qualitative
research in engineering
management~~

Quantitative research is expressed in numbers and graphs. It is used to test or confirm theories and assumptions. This type of research can be used to establish generalizable facts about a topic. Common quantitative methods include experiments,

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Research: observations recorded as numbers, and surveys with closed-ended questions.

~~Qualitative vs.
Quantitative Research +
Differences & Methods~~

Qualitative research is used to understand how people experience the world. While there are many approaches to qualitative research,

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they tend to be flexible and focus on retaining rich meaning when interpreting data.

Common approaches include grounded theory, ethnography, action research, phenomenological research, and narrative research.

~~What is Qualitative
Research? | Methods &~~

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Examples

Qualitative Research is also used to uncover trends in thought and opinions, and dive deeper into the problem. Qualitative data collection methods vary using unstructured or semi-structured techniques. Some common methods include focus groups (group discussions),

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Research Methods
Qualitative And
Quantitative
Approaches

individual interviews,
and participation/ observations. The sample size
is typically small, and
respondents are selected
to fulfil a given quota.
Quantitative Research

~~Difference between
qualitative and
quantitative research.~~
Qualitative research
methods are designed in
a manner that help

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Research
Methods
Qualitative And
Quantitative

reveal the behavior and perception of a target audience with reference to a particular topic.

Approaches

There are different types of qualitative research methods like an in-depth interview, focus groups, ethnographic research, content analysis, case study research that are usually used.

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~~Qualitative Research:
Definition, Types,
Methods and Examples~~
Qualitative will offer

you an in-depth
understanding of your
research problem and
hopefully help answer
your hypothesis.

Quantitative will allow
you to scale your
research to provide
larger sets of data for
reliability and validity. A

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Research
Methods
Combination of the two
provides you with
objectivity.

Qualitative And

~~Qualitative vs
Quantitative Research
— What Is the ...~~

In this paper we provide
an overview of
qualitative research
methods, outline key
opportunities where
qualitative methods can
be used to enhance

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Engineering

engineering design
research, and present a
case...

Qualitative And

~~Using qualitative
research methods in
engineering design ...~~

Engineering education
researchers are
increasingly integrating
qualitative and
quantitative research
methods to study
learning and retention

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in engineering. While quantitative methods can provide generalisable results, qualitative methods generate rich, descriptive understanding of the investigated phenomenon.

~~Integrating quantitative and qualitative research methods ...~~

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RESEARCH METHODS

Much of engineering research seeks to identify how out- comes (i.e., mechanical failure) are determined by reducing plausible causes to a discrete set of indicators or variables.

~~Quantitative,
Qualitative, and Mixed
Research Methods in ...~~

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Qualitative data collection methods are exploratory in nature and are mainly concerned with gaining insights and understanding on underlying reasons and motivations. Qualitative data collection methods emerged after it has become known that traditional quantitative data collection methods

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Research Methods
were unable to express human feelings and emotions.

Qualitative And

~~Qualitative Data~~

~~Collection Methods~~

~~Research Methodology~~

Qualitative research is designed to reveal the meaning that informs the action or outcomes that are typically measured by quantitative research.

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So qualitative researchers investigate meanings, interpretations, symbols, and the processes and relations of social life.

~~Qualitative Research Definition and Methods~~

The class discusses the key principles, and practical exercises, on both quantitative and qualitative research

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Research Methods, including survey methods, interviewing techniques, use of census data and statistical methods. The class also includes discussion of ethical issues.

~~GL986 Qualitative and Quantitative Research Methods~~

The in-depth interview is one of the most

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Common types of qualitative research methods out there. It involves a personal interview with a single respondent. This method provides a great opportunity to capture rich, descriptive data about people 's behaviors, motivations, beliefs and etc.

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~~Research Methods: A Quick Guide~~

The use of qualitative research methods have in EER not always been widely accepted but have recently gained more attention (Case & Light, 2011). There are, however, also qualitative research methods in engineering research that may be used in EER (Bernhard, in

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