Research Methods
in computer science
Fall 2015

Lecture 6

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Agenda

HW3

CS Experiments and Metrics

Assignment 3

Find 10 papers related to your research project and show how they are related to your work and to each other.

Communicating Research Outcome

Why is it important?

What is your idea and how does it work?

How is it better?

Prior work

Experiments

Experiments

Hypothesis

Scenarios

Measurements

Conclusions

Science and Engineering View of Computer Science

Regardless of the view, we still do experiments and evaluations to test our ideas. The framing may be slightly different.

Types of Experiments

Model / Analysis

Simulations

Testbed (Real word ^{lite})

"Real world"

Which one to use when? Each technique brings a different level of realism. Realism not always good!