

# Introduction to Experimental Design

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These slides are available on-line at:

<http://www.cse.wustl.edu/~jain/cse567-08/>



- ❑ What is experimental design?
- ❑ Terminology
- ❑ Common mistakes
- ❑ Sample designs

# Experimental Design and Analysis

## How to:

- ❑ Design a proper set of experiments for measurement or simulation.
- ❑ Develop a model that best describes the data obtained.
- ❑ Estimate the contribution of each alternative to the performance.
- ❑ Isolate the measurement errors.
- ❑ Estimate confidence intervals for model parameters.
- ❑ Check if the alternatives are significantly different.
- ❑ Check if the model is adequate.