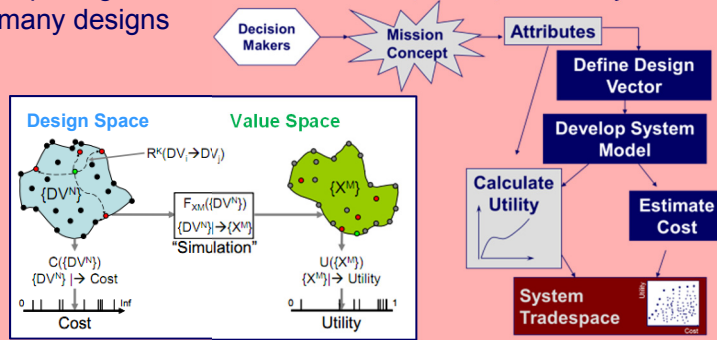


SEArI Tradespace Exploration and Evaluation Methods

Multi-Attribute Tradespace Exploration (MATE)

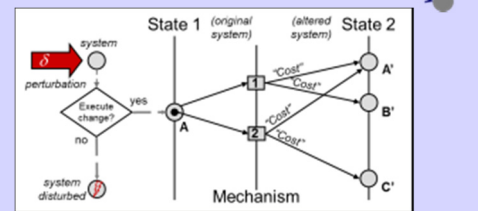
Exploring distribution of attributes, costs, and utility across many designs



Dynamic MATE

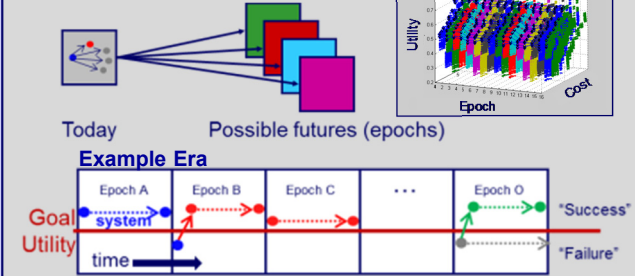
Using tradespace networks to design for and quantify changeability

Change Mechanisms for Tradespace Networks (TSN)



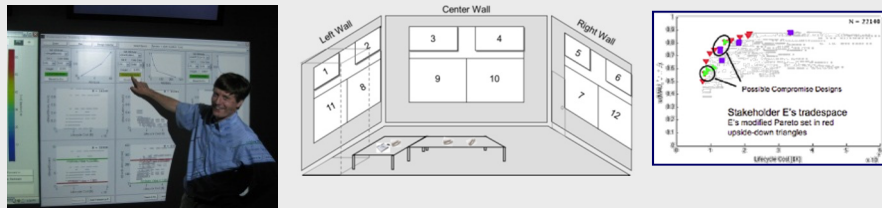
Epoch-Era Analysis (EEA)

Considering the impact of short run and long run context and needs changes on the success of systems



Tradespace Exploration Lab (TSELab) with VisLab (software)

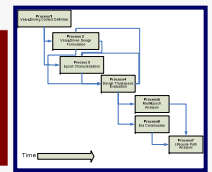
Interactive tradespace exploration environment



Responsive Systems Comparison Method (RSC)

Using MATE, EEA, and other approaches, RSC is a set of seven processes for gaining insights into developing value robust systems

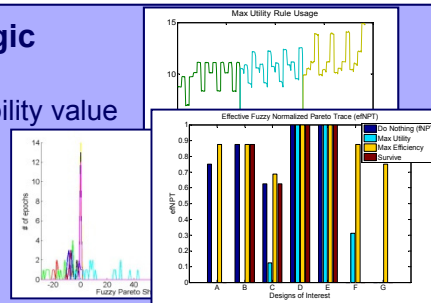
1. Value-Driving Context Definition
2. Value-Driven Design Formulation
3. Epoch Characterization
4. Design Tradespace Evaluation
5. Multi-Epoch Analysis
6. Era Construction
7. Lifecycle Path Analysis



Valuation Approach for Strategic Changeability (VASC)

Framework and metrics for changeability value in both multi-epoch and era domains

1. Set up data for epoch-era analysis
2. Identify designs of interest
3. Define rule usage strategies
4. Multi-epoch changeability analysis
5. Era simulation and analysis



Epoch Syncopation Framework (ESF)

Investigating how epoch ordering and change strategies affect timing of design change decisions

