Modeling and Analyzing Systems-of-Systems in the Multi-Attribute Prediction Language (MAPL)

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Adding Applications
Adding Infrastructure
Adding Costs
Calculating Infrastructure Costs
Calculating Application Costs
Calculating Availability
Introducing Redundancy
Design Trade-offs

- Capex
- Opex
- Availability

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Specifying Requirements
CustomerManagementReqs.utility
Prioritizing Requirements
Design Trade-off Aggregation

OperationalQuality.utility

Capex
Opex
Availability

OperationalQuality.utility

Capex
Opex
Availability
More Quality Attributes

Utility (requirements)
Availability
Capex
Opex
Data accuracy
Application Coupling
Application Size (function points)

Interoperability
Security