The RE-Tools: A Multi-notational Requirements Modeling Toolkit

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Modeling

- i* Framework
- KAOS with NFRs
- NFR Framework
- Problem Frames with NFRs
- UML Use Case with NFRs
- UML Class with NFRs
- UML Component with NFRs

Reasoning

- Closed World Assumption
- Open World Assumption
- Qualitative Goal Achievement Reasoning
- Quantitative Weight-based Alternatives Selection

Implementation

- StarUML
  - The RE-Tools
  - Automated configuration label propagation (4S)
- The RE UML profile (XMI)
- Notation mapping
  - StarUML notation extension language
- Custom menu (XMI)

Extensions

- Objective Pattern
- Alternatives Pattern
- NFR Patterns
- Reasoning across notations

www.utdallas.edu/~supakkul/tools/RE-Tools