Involving Users in Web Services Composition

Peter Bartalos

bartalos@fiit.stuba.sk Supervisor: Professor Mária Bieliková

Problem

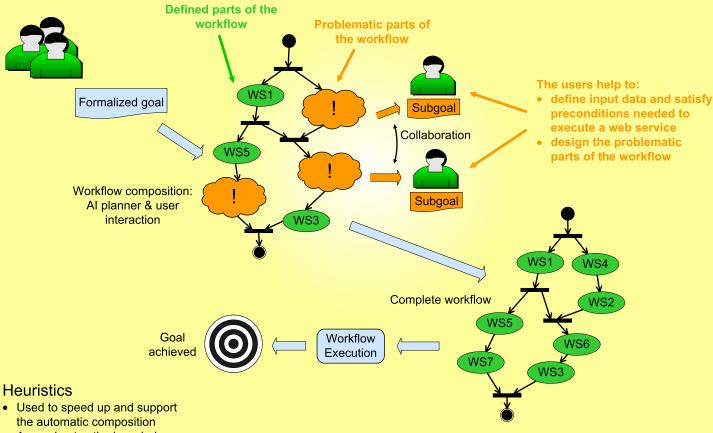
 Level of maturity of automatic web services composition approaches

Goal

 Overcome problems occurring within automatic web services composition based on state space search

Approach

- Suggesting users which should be involved to help solve problems
- Extending the automatic web service composition tools
- Use of heuristics estimating the ability of the users to solve problems



- Approximates the knowledge level of concepts describing input data or preconditions
- Estimates the reachability of a given state

$$\mathit{reach}(S) = \frac{1}{1 + \sum_{\forall r \in Req} [1 - full_know(r)]}$$

 $full_know(c) = \max_{\forall u \in U} \{know(c, u)\}$

 $know(c,u) = \sum_{n \in \mathbb{N}} \{sem(c,n).know(n,u)\}$