Main Goal:
Find the right situations for performing specific actions

- support autonomous decision making
- context aware services and applications
- without user initiation.

**Action Model**
Set of rules
Based on the user’s performance (explicit and implicit feedback)
Two parts
1. Antecedents (situation when the rule applies)
2. Conclusion (action that the rule suggests)
Representation through symbols
Extended Time sensitivity principle

**Situation Model**
Representation through symbols
Certainty values
Time sensitivity principle
Main advantages:
- Domain independence
- Elimination of privacy issues
- Allowing collaborative models

**Method for Action Suggestion**
1. Rule Generation
Based on:
   - Current user’s situation
   - Action indicator
   Rules for all possible situation combinations
   Base certainty distributed accordingly
2. Recommendation Calculation
   Using user’s action and situation models
   Steps:
   1. Computing the importance of situation classes
   2. Modifying rule certainties
   3. Computing the final recommendations

http://pewe.fiit.stuba.sk/results/