An Interactive Shared Decision Making System for Dental Treatment Planning

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Introduction

Shared decision making

- **Shared decision making**
  - patient and clinician consider outcome probabilities and patient preferences to reach a mutual agreement on the appropriate health care decision [1]
- **Methods**
  - Counseling
    - Long and complicated process
  - Interactive Video / CD-ROM
    - Need elaborate preparing

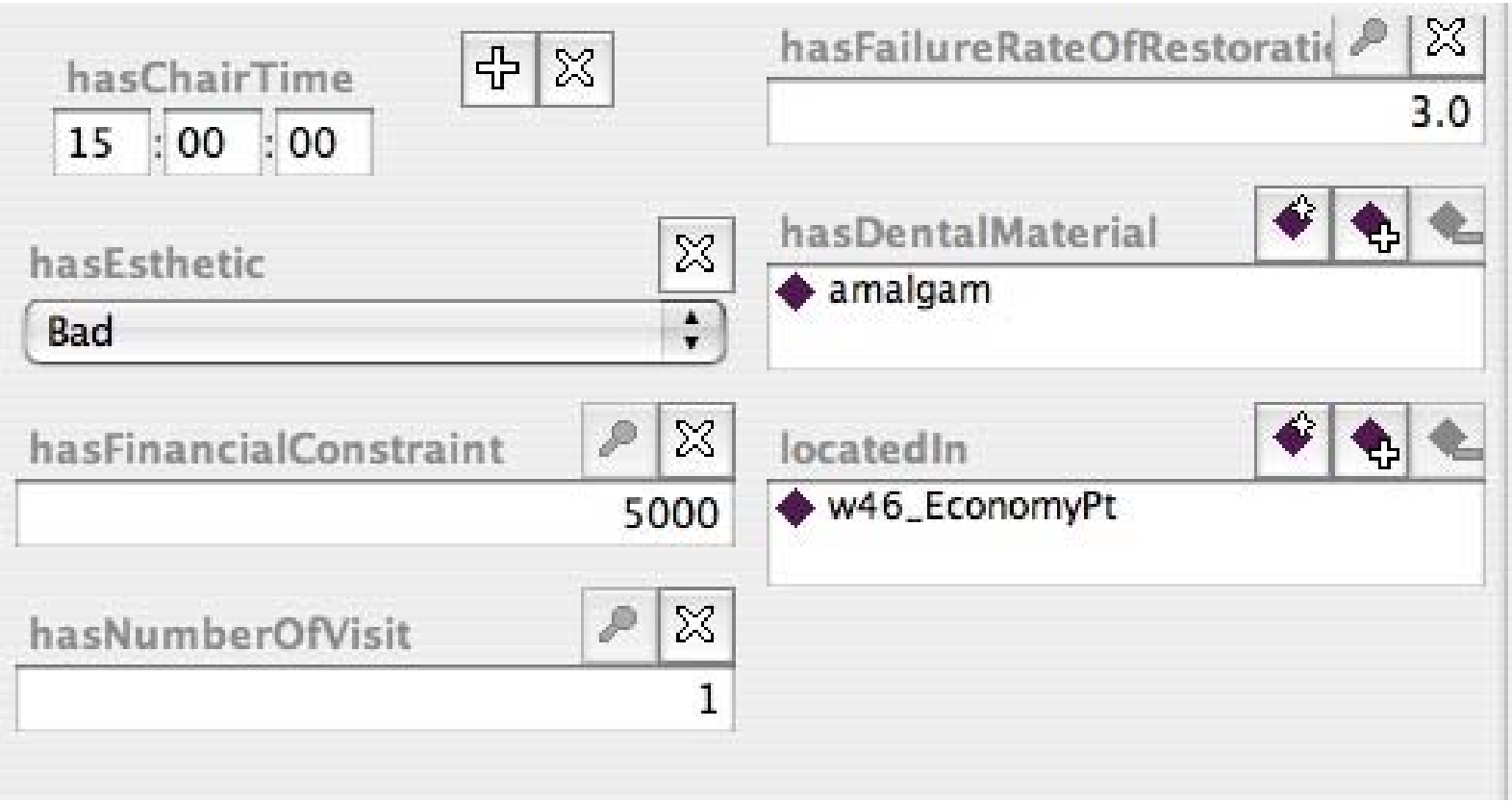
Ontology

Class hierarchy of TxOption Class

- TxOption
  - MedicalModel
  - NoTreatment
  - SurgicalModel
    - ExtraCoronalRestoration
      - CompleteDenture
      - FixedPartialDenture
      - RemovablePartialDenture
    - IntraCoronalRestoration
      - Direct_IntraCoronalRestoration
        - AmalgamRestoration
        - EstheticAdhesiveRestoration
      - Indirect_IntraCoronalRestoration
        - CADCAM
        - Inlay
        - Onlay

- **List of expected treatment options**

Instance of Amalgam restoration



Analytic Hierarchy Process (AHP)

Implementation (1)

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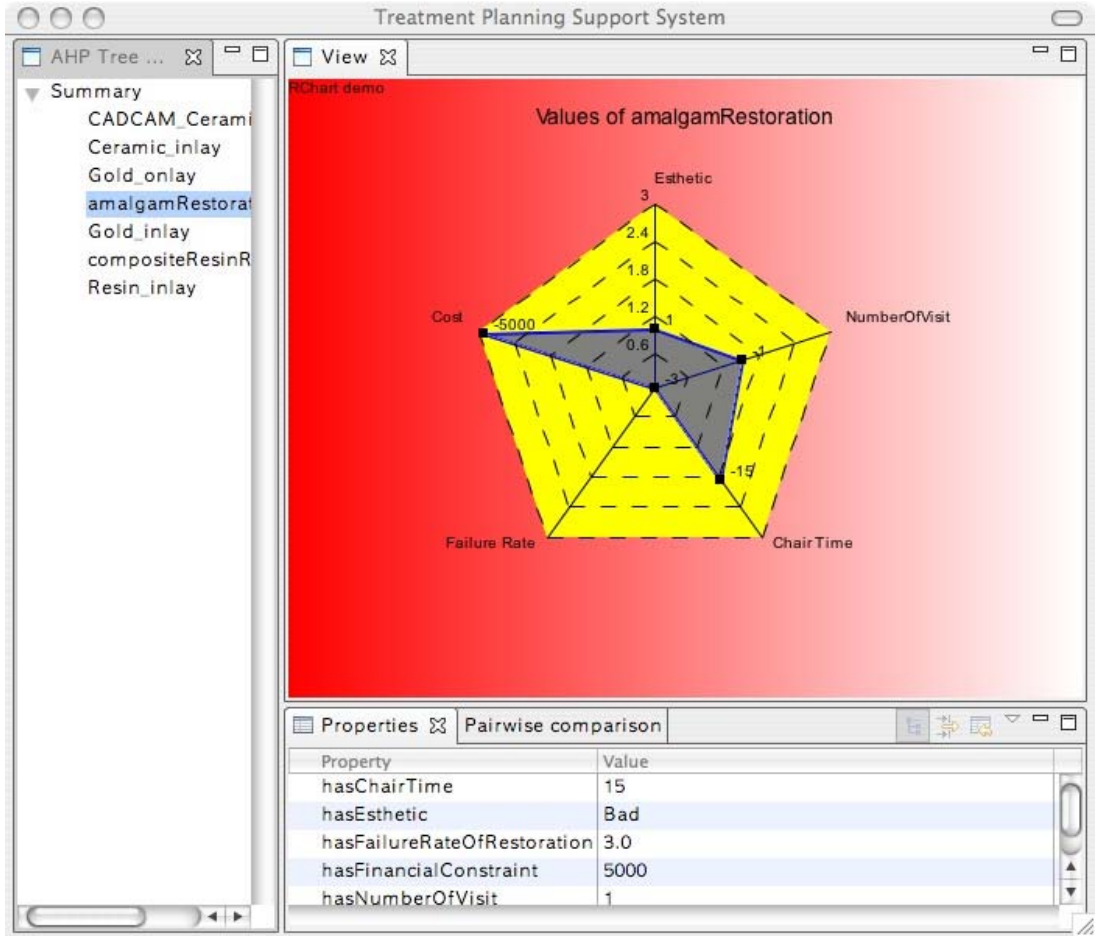
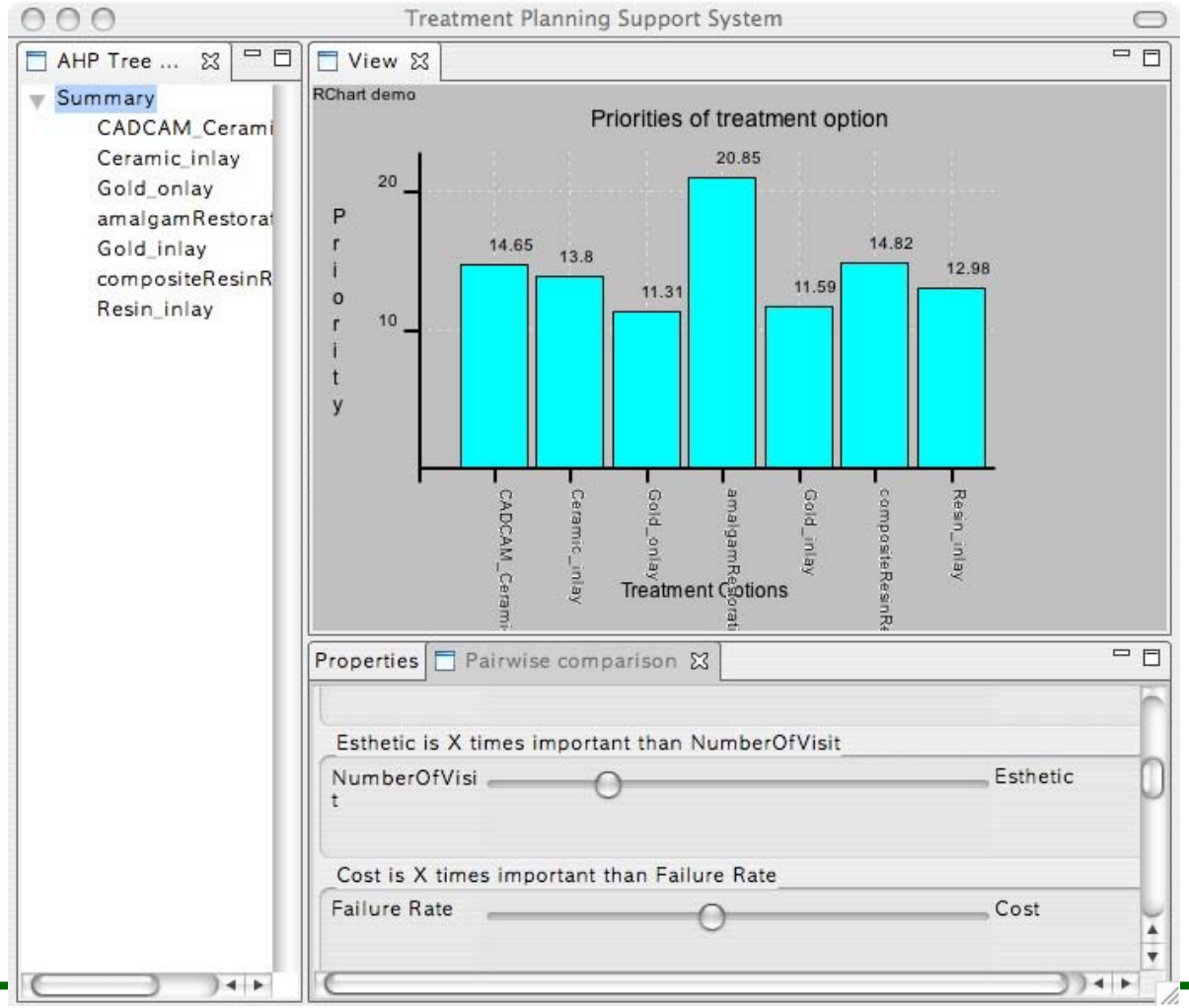


- **Properties of Amalgam restoration**

Implementation (2)



Conclusion

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