Sound Colour Space
Virtuelles Museum (16.06.2015)

Information Technology
Ontology
ER-Model

Information Technology for the
Virtual Museum, 2008
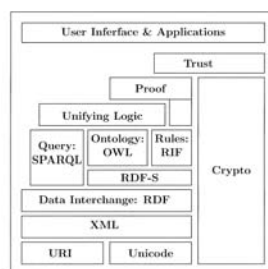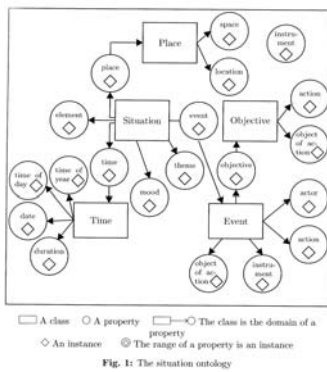
Klaus Robering (ed)

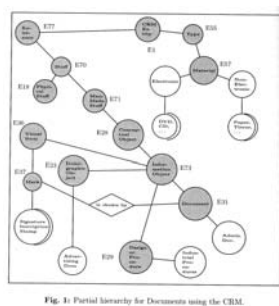# Semantic Web Stack

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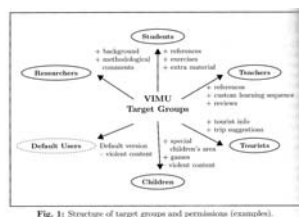Fig. 1: Semantic Web Stack

Situation Ontology

Fig. 1: The situation ontology

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Partial hierarchy of Documents using the Conceptual Reference Model (CRM)

Fig. 1: Partial hierarchy for Documents using the CRM.

106

Target Groups and Permissions

Fig. 1: Structure of target groups and permissions (examples).

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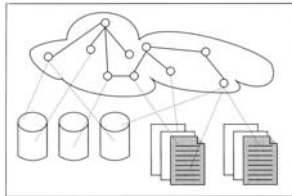## Ontology as a background knowldedge repository

Fig. 2: Ontology as a background knowledge repository.

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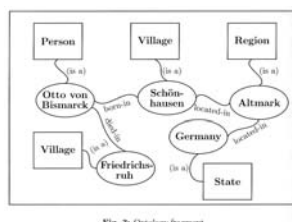
Ontology fragment

Fig. 3: Ontology fragment.

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Interactive visualization of the ontology

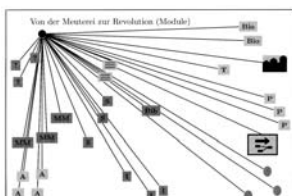Fig. 4: Interactive visualization of the ontology. Information resources relative to the currently viewed object (here a module, upper left corner) are shown at the ends of the lines sorted after their type. Thus, a capital "A" in a square box represents a piece of audio, "MM" represents a multimedia resource, etc. The oval shapes represent a related subject in a more abstract sense, such as a person, a location, or an event.

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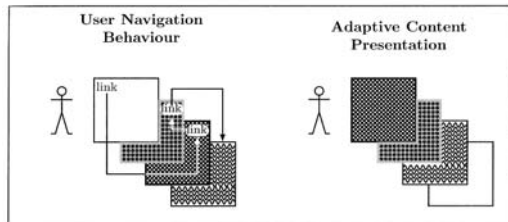## Adaptive content presentation

Fig. 1: Example of adaptive content presentation based on user navigation behavior.

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Personalization framework design modules
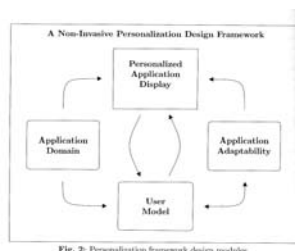
Fig. 2: Personalization framework design modules.

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Application domain represented by topic maps
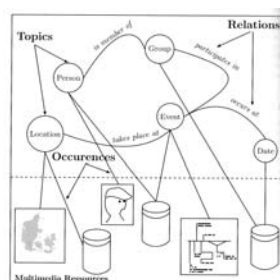
Fig. 3: Application domain represented by topic maps.

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The MVC architecture for intelligent agents
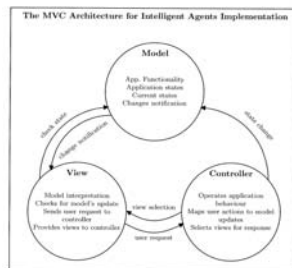
Fig. 4: The MVC architecture for intelligent agents.

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Multi-agent integration into MVC architecture
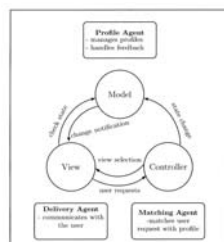
Fig. 5: Multi-agent integration into the MVC architecture.

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Layered architecture
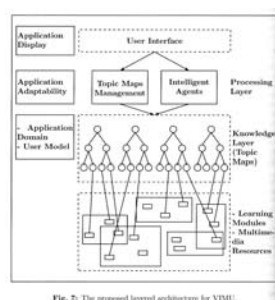
Fig. 7: The proposed layered architecture for ViMU.

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Sound Colour Space
Virtuelles Museum

ER-Modell

MySql

Stand: 16. Juni 2015

Museumsobjekte und
ihre Ressourcen

Assemblage
ID
ID_MuseumsObj
ID_MuseumsObjRessource

MuseumsObj
ID
Bezeichnung
Beschreibung

MuseumsObjRessource
ID
dateiKennung
dateiName
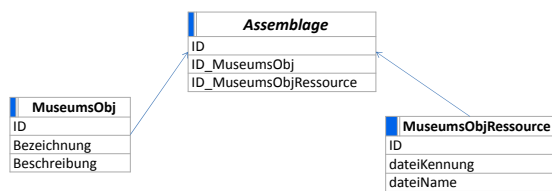
«Ontologie»: Museumsobjekte

Assemblage
ID
ID_MuseumsObj
ID_MuseumsObjRessource

MuseumsObj
ID
Bezeichnung
Beschreibung

MuseumsObjRessource
ID
dateiKennung
dateiName

Themenhierarchien
ID
ID_Thema
ID_Thema_Parent
ID_Baumfarbe

ThemaDisziplinMuseumsObj
ID
ID_Thema
ID_Disziplin
ID_MuseumsObj

Thema
ID
Bezeichnung
Beschreibung
Relevanz

Baumfarbe
ID
Bezeichnung
Beschreibung

Disziplin
ID
Bezeichnung
Bezeichnung_ge
Beschreibung

Beschlagwortung: Museumsobjekt-Ressourcen

Assemblage
ID
ID_MuseumsObj
ID_MuseumsObjRessource

Schlagwort
ID
Keyword
Keyword_ge

MuseumsObj
ID
Bezeichnung
Beschreibung

MuseumsObjRessource
ID
dateiKennung
dateiName
jahresZahl
jahresZahl_2
is_unsicher
ID_Source
ID_Author

BeschlagwortungRessourcen
ID
ID_Schlagwort
ID_MuseumsObjRessource
Relevanz

Quelle
ID
ID_Autor
Titel
Jahr
Auflage
Verlag

Ausstellung: Museumsobjekt-Positionierung

MuseumsObj
ID
Bezeichnung
Beschreibung

MuseumsObjPositionierung
ID
ID_MuseumsObj
ID_Raum
ID_Ausstellung
x_pos
y_pos
z_pos

Ausstellung
ID
Titel
Beschreibung

Raum
ID
Bezeichnung
Beschreibung
is_Ausstellungsraum
x_pos
y_pos
z_pos
nr_Exponat
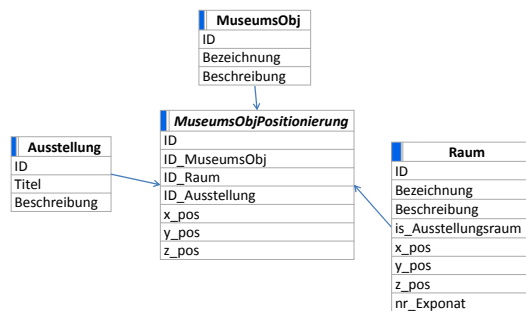
Ausstellung: Kuratierung

Kuratierung
ID
ID_Ausstellung
ID_Person
ID_Rolle
is_verantwortlich

Ausstellung
ID
Titel
Beschreibung

Person
ID
Familienname
Vorname
Institut
Adresse
...

Rolle
ID
Bezeichnung
Beschreibung