## intelligent multimedia-

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#### **ABSTRACT**

In this presentation we will outline the requirements for a software platform supporting *intelligent multimedia*. These requirements encompass computational concerns as well as presentation facilities, providing a suitably rich environment for applications deploying rich media.

We will then propose a platform based on the distributed logic programming language DLP and X3D, the extensible Web3D format. A number of case studies will be described, illustrating the potential of the DLP+X3D platform, including a multi-user game with autonomous players, avatars commenting on rich media presentations, and a gesture scripting language for humanoids based on dynamic logic.

In conclusion, we will discuss related work and review the evaluation criteria that pertain to the deployment of agent-based rich media 3D environments.

structure

- $\bullet$  mission VR interfaces
- ullet background and motivation research
- platform DLP+X3D
- case studies soccer, presentation VR, STEP
- research issues agents and VR in DLP
- conclusions and future research XML

#### 1. MISSION

mission

Our goal is to study aspects of the deployment and architecture of virtual environments as an interface to (intelligent) multimedia information systems  $\dots$ 

our focus is (quite) technological

http://www.cs.vu.nl/~eliens/research ...

#### 2. BACKGROUND

DejaVU

- object-orientation POOSD 2nd
- structured hypermedia van Ossenbruggen (CWI)
- visualization Schönhage (ASZ/OTI)
- HCI/(embedded logic) ... van Welie

hush

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publications

- $\bullet\,$  Bringing music to the Web
- Animating the Web an SGML-based approach
- Jamming (on) the Web
- 3D Gadgets for Business Process Visualization (Ballegooij)
- A taxonomy of Web agents (Huang, de Bra)
- Navigation by Query (van Ballegooij)
- Agent-based Virtual Communities (Huang)

#### 3. PROJECTS

projects

- WASP Web Agent Support Program (NWO)
- $\bullet~{\rm RIF-Retrieval}$  of Information in Virtual Worlds (NWO)
- AVID Agents and Virtual environments in DLP

perspectives

- ullet education intelligent multimedia
- $\bullet\,$ research architecture, 3D GUI, agents
- collaboration AI (VU), CWI
- $\bullet$  student projects VU Campus, Out of the Dark

### 4. REFERENCES