

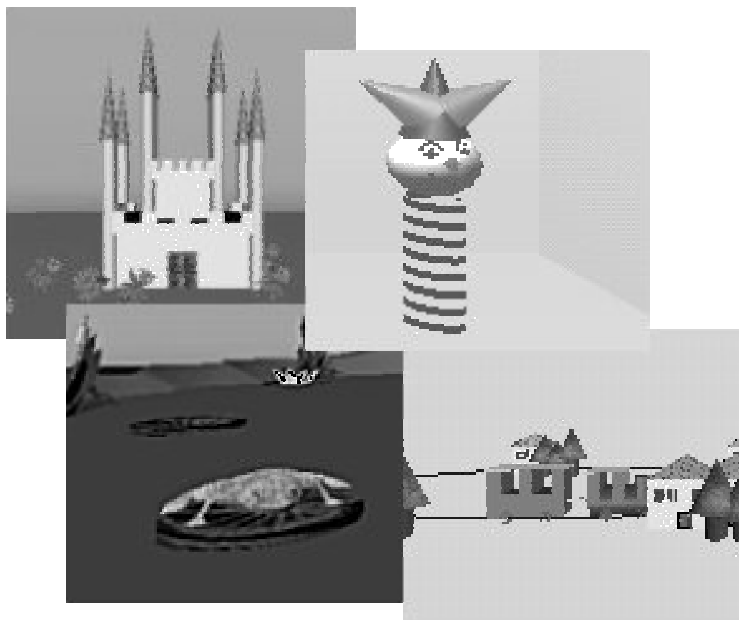
# A Distributed System to Support Low Vision Consultation

C. Antunes \*, M.C. Neves MD \*\*,

J. P. Martins PhD. \*, A. Castanheira-Dinis MD \*\*

In this paper we describe a system that enables the professionals of the low vision team to follow their patients. It results from the integration of several modules, namely: database, data analysis, consultation and rehabilitation exercises.

The consultation module, records and manages patient data, supports the access to several simultaneous users through an Internet browser. To assure information confidentiality we use a security policy, based on data encryption techniques and rigid access controls.



The rehabilitation module provides exercises to train the visual perception, through the creation of Virtual Reality scenes.

Data analysis module searches for behaviour patterns within the patients' files. With these patterns we hope to find rules to establish a customized rehabilitation plan for each patient.

---

\* Instituto Superior Técnico  
Technical University of Lisbon  
Av. Rovisco Pais  
1040-001 Lisboa  
PORTUGAL

\*\* Hospital de Santa Maria  
Lisbon Faculty of Medicine  
Av. Prof. Egas Moniz  
1649-035 Lisboa  
PORTUGAL